

Papers published in periodicals, books, conference proceedings

1. **02DI101:** DILMANIAN F.A., BUTTON T.M., LE DUC G., ZHONG N., PEÑA L.A., SMITH J.A.L., MARTINEZ S.R., BACARIAN T., TAMMAM J., REN B., FARMER P.M., KALEF-EZRA J., MICCA P.L., NAWROCKY M.M., NIEDERER J.A., RECKSIEK F.P., FUCHS A., ROSEN E.M., “Response of rat intracranial 9L gliosarcoma to microbeam radiation therapy”, *Neuro-Oncology* **4**, 26-38 (2002).
2. **02SC102:** SCHINDELMANN P., VAN BÜRCK U., POTZEL W., SMIRNOV G.V., POPOV S.L., GERDAU E., SHVYD'KO Y.V., JÄSCHKE J., RÜTER H.D., CHUMAKOV A.I., RÜFFER R., “Radiative decoupling and coupling of nuclear oscillators by stepwise Doppler-energy shifts”, *Physical Review A* **65**, 023804-1-023804-17 (2002).
3. **02BR104:** BRUNELLI M., FITCH A.N., MORA A.J., “Crystal structures of R-thiocamphor”, *Zeitschrift für Kristallographie* **217**, 83-87 (2002).
4. **02UN105:** UNRUH T., WESTESEN K., BÖSECKE P., LINDNER P., KOCH M.H.J., “Self-assembly of triglyceride nanocrystals in suspension”, *Langmuir* **18**, 1796-1800 (2002).
5. **02RO106:** ROSENFELD A.B., LERCH M.L.F., KRON T., BRAUER-KRISCH E., BRAVIN A., HOLMES-SIEDLE A., ALLEN B.J., “Feasibility study of online high-spatial-resolution MOSFET dosimetry in static and pulsed X-ray radiation fields”, *IEEE Transactions on Nuclear Science* **48**, 2061-2068 (2001).
6. **02FI107:** FINET S., NARAYANAN T., “La diffusion des rayons X aux petits angles : application à la biologie”, *Bulletin de la Société Française de Physique* **133**, 8-11 (2002).
7. **02CO108:** COSTE F., SHEPARD W., ZELWER C., “Description of ordered solvent molecules in a platinated decanucleotide duplex refined at 1.6 Å resolution against experimental MAD phases”, *Acta Crystallographica D* **58**, 431-440 (2002).
8. **02PA109:** PAOLASINI L., CACIUFFO R., SOLLIER A., GHIGNA P., ALTARELLI M., “Coupling between spin and orbital degrees of freedom in $KCuF_3$ ”, *Physical Review Letters* **88**, 106403-1-106403-4 (2002).
9. **02AC110:** D'ACAPITO F., COLONNA S., MAURIZIO C., MOBILIO S., “Multiple-order reflections from monochromating crystals for the collection of X-ray absorption spectra at extremely high energies”, *Journal of Synchrotron Radiation* **9**, 24-27 (2002).
10. **02DI111:** DI MATTEO S., NATOLI C.R., “A multiple-scattering theory of circular and linear dichroism for photoemission and photoabsorption”, *Journal of Synchrotron Radiation* **9**, 9-16 (2002).
11. **02AL112:** ALONSO C., ARTZNER F., SUCHOD B., BERTHAULT M., KONOVALOV O., PECAUT J., SMILGIES D., RENAULT A., “Two- and three-dimensional stacking of chiral alcohols”, *Journal of Physical Chemistry B* **105**, 12778-12785 (2001).
12. **02CR113:** CRISTOFOLINI L., FONTANA M.P., KONOVALOV O., “Layering and relaxation in molecular films of a photosensitive polyacrylate from X-ray reflectivity and in elastic neutron scattering experiments”, *Philosophical Magazine B* **82**, 523-531 (2002).
13. **02ST114:** STAUB U., MEIJER G.I., FAUTH F., ALLENSPACH R., BEDNORZ J.G., KARPINSKI J., KAZAKOV S.M., PAOLASINI L., D'ACAPITO F., “Direct observation of charge order in an epitaxial $NdNiO_3$ film”, *Physical Review Letters* **88**, 126402-1-126402-4 (2002).
14. **02LE115:** LEMAIRE B.J., DAVIDSON P., FERRE J., JAMET J.P., PANINE P., DOZOV I., JOLIVET J.P., “Outstanding magnetic properties of nematic suspensions of goethite (α -FeOOH) nanorods”, *Physical Review Letters* **88**, 125507-1-125507-4 (2002).
15. **02HA116:** HALL D.R., HADDEN J.M., LEONARD G.A., BAILEY S., NEU M., WINN M., LINDLEY P.F., “The crystal and molecular structures of diferric porcine and rabbit serum transferrins at resolutions of 2.15 and 2.60 Å, respectively”, *Acta Crystallographica D* **58**, 70-80 (2002).
16. **02DI117:** DINNEBIER R.E., BERNATOWICZ P., HELLUY X., SEBALD A., WUNSCHER M., FITCH A., VAN SMAALEN S., “Structure of compounds $E(SnMe_3)_4$ ($E = Si, Ge$) as seen by high-resolution X-ray powder diffraction and solid-state NMR”, *Acta Crystallographica B* **58**, 52-61 (2002).
17. **02MI118:** MICOSSI E., HUNTER W.N., LEONARD G.A., “*De novo* phasing of two crystal forms of tryparedoxin II using the anomalous scattering from S atoms: A combination of small signal and medium resolution reveals this to be a general tool for solving protein crystal structures”, *Acta Crystallographica D* **58**, 21-28 (2002).

18. **02NA119:** NAGY D.L., BOTTYAN L., DEAK L., DEGROOTE B., LEUPOLD O., MAJOR M., MEERSSCHAUT J., RÜFFER R., SZILAGYI E., SWERTS J., TEMST K., VANTOMME A., “Specular and off-specular synchrotron Mössbauer reflectometry: Applications to thin film magnetism”, *Physica Status Solidi (a)* **189**, 591-598 (2002).
19. **02BI120:** BINNS C., BAKER S.H., MAHER M.J., LOUCH S., THORNTON S.C., EDMONDS K.W., DHESI S.S., BROOKES N.B., “Magnetism in Fe Nanoclusters - from isolated particles to nanostructured materials”, *Physica Status Solidi (a)* **189**, 339-350 (2002).
20. **02BA121:** BATEMAN J.E., CONNOLLY J.F., LODGE A.B., STEPHENSON R., MUTIKAINEN R., SUNI I., MORSE J., “A gas microstrip detector for X-ray imaging with readout of the anode by resistive division”, *Nuclear Instruments and Methods in Physics Research A* **477**, 29-36 (2002).
21. **02MA122:** MARGULIES L., LORENTZEN T., POULSEN H.F., LEFFERS T., “Strain tensor development in a single grain in the bulk of a polycrystal under loading”, *Acta Materialia* **50**, 1771-1779 (2002).
22. **02ZU123:** ZÜTTEL A., FISCHER P., FAUTH F., OTTO A., GÜTHER V., “Phase analysis and atom distribution in the $Zr(V_{0.5}Ni_{0.5})_3D_x$ ($x = 0,4,6$) alloy system with laves-type AB_2 structure”, *Journal of Alloys and Compounds* **333**, 99-102 (2002).
23. **02AS124:** ASSOULINE E., WACHTEL E., GRIGULL S., LUSTIGER A., WAGNER H.D., MAROM G., “Lamellar orientation in transcrystalline γ isotactic polypropylene nucleated on aramid fibers”, *Macromolecules* **35**, 403-409 (2002).
24. **02MO125:** MOSSA S., MONACO G., RUOCCO G., SAMPOLI M., SETTE F., “Molecular dynamics simulation study of the high frequency sound waves in the fragile glass former orthoterphenyl”, *Journal of Chemical Physics* **116**, 1077-1084 (2002).
25. **02FI126:** FISHER C.J., WOODRUFF D.P., JONES R.G., COWIE B.C.C., FORMOSO V., “Chemical-shift X-ray standing wavefield determination of the local structure of methanethiolate phases on Ni(111)”, *Surface Science* **496**, 73-86 (2002).
26. **02PO127:** PONTONI D., NARAYANAN T., RENNIE A.R., “Time-resolved SAXS study of nucleation and growth of silica colloids”, *Langmuir* **18**, 56-59 (2002).
27. **02CA128:** CAO L.X., ZEGENHAGEN J., CARDONA M., GIANNINI C., DE CARO L., TAPFER L., “Effect of pseudomorphic stress on structure and transport properties of ultrathin $GdBa_2Cu_3O_7$ films on (001) $SrTiO_3$ and $NdGaO_3$ ”, *Journal of Applied Physics* **91**, 1265-1271 (2002).
28. **02RE129:** REMHOF A., SONG G., LABERGERIE D., ISIDORSSON J., SCHREYER A., GÜTHOFF F., HÄRTWIG J., ZABEL H., “On the structure of epitaxial YH_x films: *Journal of Alloys and Compounds* **330-332**, 276-279 (2002).
29. **02ST130:** STRUTH B., RIEUTORD F., KONOVALOV O., BREZESINSKI G., GRÜBEL G., TERECH P., “Organization of two-dimensional phospholipid monolayers on a gel-forming substrate”, *Physical Review Letters* **88**, 025502-1-025502-4 (2002).
30. **02CO131:** COLLET E., LEMEE-CAILLEAU M.H., BURON-LE COINTE M., CAILLEAU H., RAVY S., LUTY T., BERAR J.F., CZARNECKI P., KARL N., “Direct evidence of lattice-relaxed charge transfer exciton strings”, *Europhysics Letters* **57**, 67-73 (2002).
31. **02DI132:** DI MATTEO S., PERKINS N.B., NATOLI C.R., “Ground-state electronic properties of V_2O_3 ”, *Journal of Physics Condensed Matter* **14**, L37-L41 (2002).
32. **02RO133:** ROBACH O., QUIROS C., STEADMAN P., PETERS K.F., LUNDGREN E., ALVAREZ J., ISERN H., FERRER S., “Magnetic anisotropy of ultrathin cobalt films on Pt(111) investigated with X-ray diffraction: Effect of atomic mixing at the interface”, *Physical Review B* **65**, 054423-1-054423-8 (2002).
33. **02DI134:** DIAN C., ESHAGHI S., URBIG T., MCSWEENEY S., HEIJBEL A., SALBERT G., BIRSE D., “Strategies for the purification and on-column cleavage of glutathione-S-transferase fusion target proteins”, *Journal of Chromatography B* **769**, 133-144 (2002).
34. **02RI135:** RIDEAU D., MONCEAU P., CURRAT R., REQUARDT H., NAD F., LORENZO J.E., BRAZOVSKII S., DETLEFS C., GRÜBEL G., “X-ray scattering evidence for macroscopic strong pinning centers in the sliding CDW state of $NbSe_3$ [Erratum: *Europhysics Letters*, 56(2), pp.289-295(2001)]”, *Europhysics Letters* **57**, 471 (2002).
35. **02ME136:** MENEZ B., PHILIPPOT P., BONNIN-MOSBAH M., SIMIONOVICI A., GIBERT F., “Analysis of individual fluid inclusions using synchrotron X-ray fluorescence microprobe : Progress toward calibration for trace elements”, *Geochimica et Cosmochimica Acta* **66**, 561-576 (2002).

36. **02ES137:** ESTEVE F., CORDE S., ELLEAUME H., ADAM J.F., JOUBERT A., CHARVET A.M., BISTON M.C., BALOSSO J., LE BAS J.F., “Enhanced radio sensitivity with iodinated contrast agents using monochromatic synchrotron X-rays on human cancerous cells”, *Academic Radiology* **9** (Suppl. 2), S540-S543 (2002).
37. **02DA138:** DALLERA C., MARCON M., GHIRINGHELLI G., TAGLIAFERRI A., BROOKES N.B., OLCESE G., PALENZONA A., BRAICOVICH L., “Study of bulk ground state properties of cerium intermetallics by linear dichroism in 4f resonant inelastic X-ray scattering”, *Solid State Communications* **121**, 635-640 (2002).
38. **02PA139:** PAULSEN H., RUSANOV V., BENDA R., HERTA C., SCHÜNEMANN V., JANIAC C., DORN T., CHUMAKOV A.I., WINKLER H., TRAUTWEIN A.X., “Metastable isonitrosyl structure of the nitroprusside anion confirmed by nuclear inelastic scattering”, *Journal of the American Chemical Society* **124**, 3007-3011 (2002).
39. **02RO140:** RONCI F., REALE P., SCROSATI B., PANERO S., ROSSI ALBERTINI V., PERFETTI P., DI MICHIEL M., MERINO J.M., “High-resolution in-situ structural measurements of the $\text{Li}_{4/3}\text{Ti}_{5/3}\text{O}_4$ "zero-strain" insertion material”, *Journal of Physical Chemistry B* **106**, 3082-3086 (2002).
40. **02BE141:** BERGMAN C., JOULAUD J.L., CAPITAN M., CLUGNET G., GAS P., “In situ real-time analysis of the formation of a quasicrystalline phase in Al-Co multilayers by solid-state reaction”, *Journal of Non-Crystalline Solids* **287**, 193-196 (2001).
41. **02KR142:** KRILL III C.E., DÖBRICH K., MICHELS D., MICHELS A., RAU C., WEITKAMP T., SNIGIREV A., BIRNINGER R., “Tomographic characterization of grain-size correlations in polycrystalline Al-Sn”, *Proceedings SPIE* **4503**, 205-212 (2002).
42. **02SC143:** SCHROER C.G., BENNER B., GÜNZLER T.F., KUHLMANN M., ZIMPRICH C., LENGELER B., RAU C., WEITKAMP T., SNIGIREV A., SNIGIREVA I., APPENZELLER J., “High resolution imaging and lithography with hard X-rays using parabolic compound refractive lenses”, *Review of Scientific Instruments* **73**, 1640-1642 (2002).
43. **02DU144:** DUMESNIL K., DUFOUR C., MANGIN P., ROGALEV A., “Magnetic springs in exchange-coupled $\text{DyFe}_2/\text{YFe}_2$ superlattices: An element-selective X-ray magnetic circular dichroism study”, *Physical Review B* **65**, 094401-1-094401-5 (2002).
44. **02BO145:** BORGATTI F., FERRIANI P., GHIRINGHELLI G., TAGLIAFERRI A., DE MICHELIS B., BERTONI C.M., BROOKES N.B., BRAICOVICH L., “Magnetic circular dichroism in resonant X-ray emission from impurities: Results at the $L_{2,3}$ edges of Mn in Ni”, *Physical Review B* **65**, 094406-1-094406-10 (2002).
45. **02PO146:** POULSEN H.F., ANDERSEN N.H., GOTTSCHALCK ANDERSEN L., LIENERT U., “Grain dynamics in Bi-2223 tapes measured by the 3DXRD microscope”, *Physica C* **370**, 141-145 (2002).
46. **02ED147:** EDMAN K., ROYANT A., NOLLERT P., MAXWELL C.A., PEBAY-PEYROULA E., NAVARRO J., NEUTZE R., LANDAU E.M., “Early structural rearrangements in the photocycle of an integral membrane sensory receptor”, *Structure* **10**, 473-482 (2002).
47. **02DH148:** DHESSI S.S., VAN DER LAAN G., DUDZIK E., “Determining element-specific magnetocrystalline anisotropies using X-ray magnetic linear dichroism”, *Applied Physics Letters* **80**, 1613-1615 (2002).
48. **02CA155:** CASTLETON C.W.M., BARFORD W., “Screening and the quantitative π -model description of the optical spectra and polarizations of phenyl based oligomers”, *Journal of Chemical Physics* **117**, 3570-3582 (2002).
49. **02HE161:** HERNANDEZ O., HEDOUX A., LEFEBVRE J., GUINET Y., DESCAMPS M., PAPOULAR R., MASSON O., “*Ab initio* structure determination of triphenyl phosphite by powder synchrotron X-ray diffraction”, *Journal of Applied Crystallography* **35**, 212-219 (2002).
50. **02DI162:** DIAT O., BLACHOT J.F., ROLLET A.L., RUBATAT L., VALOIS C., MÜLLER M., GEBEL G., “Anisotropie structurale et des propriétés de transport dans les membranes en polyimide sulfoné”, *Journal de Physique IV* **12**, Pr2-63-Pr2-71 (2002).
51. **02AS163:** D'ASTUTO M., MANG P.K., GIURA P., SHUKLA A., GHIGNA P., MIRONE A., BRADEN M., GREVEN M., KRISCH M., SETTE F., “Anomalous dispersion of longitudinal optical phonons in $\text{Nd}_{1.86}\text{Ce}_{0.14}\text{CuO}_{4+8}$ determined by inelastic X-ray scattering”, *Physical Review Letters* **88**, 167002-1-167002-4 (2002).
52. **02TE164:** TERECH P., DE GEYER A., STRUTH B., TALMON Y., “Self-assembled monodisperse steroid nanotubes in water”, *Advanced Materials* **14**, 495-498 (2002).
53. **02CA165:** CAO L.X., QIN Y.L., DEAC A., SNIGIREVA I., ZEGENHAGEN J., “Microstructure of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}/\text{Pb}(\text{Zr}_{1-x}\text{Ti}_x)\text{O}_3$ ($x = 0, 0.47$) heterostructures”, *Journal of Physics Condensed Matter* **14**, 3093-3097 (2002).
54. **02CA166:** CAO L.X., LEE T.L., RENNER F., SU Y., JOHNSON R.L., ZEGENHAGEN J., “Strain release and twin structure in $\text{GdBa}_2\text{Cu}_3\text{O}_{7.8}$ films on (001) SrTiO_3 and NdGaO_3 ”, *Physical Review B* **65**, 113402-1-113402-4 (2002).

55. **02WA167:** WARREN S., REITZLE A., KAZIMIROV A., ZIEGLER J.C., BUNK O., CAO L.X., RENNER F.U., KOLB D.M., BEDZYK M.J., ZEGENHAGEN J., “A structure study of the electroless deposition of Au on Si(111):H”, *Surface Science* **496**, 287-298 (2002).
56. **02KU171:** KUZNETSOV A., DMITRIEV V., DUBROVINSKY L., PRAKAPENKA V., WEBER H.P., “FCC–HCP phase boundary in lead”, *Solid State Communications* **122**, 125-127 (2002).
57. **02BO172:** BONNIN-MOSBAH M., METRICH N., SUSINI J., SALOME M., MASSARE D., MENEZ B., “Micro X-ray absorption near edge structure at the sulfur and iron K-edges in natural silicate glasses”, *Spectrochimica Acta B* **57**, 711-725 (2002).
58. **02CU173:** CURFS C., CANO I.G., VAUGHAN G.B.M., TURRILLAS X., KVICK Å., RODRIGUEZ M.A., “TiC–NiAl composites obtained by SHS: A time-resolved XRD study”, *Journal of the European Ceramic Society* **22**, 1039-1044 (2002).
59. **02FE174:** FERRER S., PETROFF Y., “Surface science done at third generation synchrotron radiation facilities”, *Surface Science* **500**, 605-627 (2002).
60. **02GH175:** GHIRINGHELLI G., BROOKES N.B., TJENG L.H., MIZOKAWA T., TJERNBERG O., STEENEKEN P.G., MENOVSKY A.A., “Probing the singlet character of the two-hole states in cuprate superconductors”, *Physica B* **312-313**, 34-35 (2002).
61. **02PA176:** PAOLASINI L., OULADDIAF B., LANDER G.H., BERNHOEFT N., CANFIELD P., “Investigation of antiferromagnetic ground state of Ce(Fe_{0.93}Co_{0.07})₂”, *Physica B* **312-313**, 226-227 (2002).
62. **02RE177:** RENIER M., BROCHARD T., NEMOZ C., THOMLINSON W., “A white-beam fast-shutter for microbeam radiation therapy at the ESRF”, *Nuclear Instruments and Methods in Physics Research A* **479**, 656-660 (2002).
63. **02GI178:** GIEFERS H., LÜBBERS R., RUPPRECHT K., WORTMANN G., ALFE D., CHUMAKOV A.I., “Phonon spectroscopy of oriented HCP iron”, *High Pressure Research* **22**, 501-506 (2002).
64. **02GR179:** GRZECHNIK A., SYASSEN K., LOA I., HANFLAND M., GESLAND J.Y., “Scheelite to fergusonite phase transition in YLiF₄ at high pressures”, *Physical Review B* **65**, 104102-1-104102-6 (2002).
65. **02YO180:** YOO C.S., KOHLMANN H., CYNH H., NICOL M.F., IOTA V., LE BIHAN T., “Crystal structure of pseudo-six-fold carbon dioxide phase II at high pressures and temperatures”, *Physical Review B* **65**, 104103-1-104103-6 (2002).
66. **02GH181:** GHIGNA P., CAMPANA A., LASCIALFARI A., CANESCHI A., GATTESCHI D., TAGLIAFERRI A., BORGATTI F., “X-ray magnetic-circular-dichroism spectra on the superparamagnetic transition-metal ion clusters Mn12 and Fe8 (Erratum: [Phys.Rev.B 64, 132413 (2001)])”, *Physical Review B* **65**, 109903-1 (2002).
67. **02KA182:** KAULICH B., WILHEIN T., DI FABRIZIO E., ROMANATO F., ALTISSIMO M., CABRINI S., FAYARD B., SUSINI J., “Differential interference contrast X-ray microscopy with twin zone plates”, *Journal of the Optical Society of America A* **19**, 797-806 (2002).
68. **02FI183:** FIORETTO D., MASCIOVECCHIO C., MATTARELLI M., MONACO G., PALMIERI L., RUOCCO G., SETTE F., “Brillouin light and X-ray study of glass-forming polybutadiene”, *Philosophical Magazine B* **82**, 273-281 (2002).
69. **02MO184:** MONACO G., BALSCHUN B., FIORETTO D., RUOCCO G., SOLTWISCH M., “Evidence of a submegahertz acoustic dispersion in liquid and glassy *o*-terphenyl”, *Philosophical Magazine B* **82**, 357-364 (2002).
70. **02PR185:** PRATESI G., COLOGNESI D., CUNSOLO A., VERBENI R., NARDONE M., RUOCCO G., SETTE F., “Microscopic structure and collective modes in liquid hydrogen: A preliminary inelastic X-ray scattering study”, *Philosophical Magazine B* **82**, 305-312 (2002).
71. **02ME186:** MENEGHINI C., CASTELLANO C., MOBILIO S., KUMAR A., RAY S., SARMA D.D., “Local structure of hole-doped manganites: Influence of temperature and applied magnetic field”, *Journal of Physics Condensed Matter* **14**, 1967-1974 (2002).
72. **02FA187:** FAUTH F., SUARD E., CAIGNAERT V., “Intermediate spin state of Co³⁺ and Co⁴⁺ ions in La_{0.5}Ba_{0.5}CoO₃ evidenced by Jahn-Teller distortions”, *Physical Review B* **65**, 060401-1-060401-4 (2001).
73. **02HE188:** HERVE C., TORKI K., “A 75 ps rms time resolution BiCMOS time to digital converter optimized for high rate imaging detectors”, *Nuclear Instruments and Methods in Physics Research A* **481**, 566-574 (2002).
74. **02DI189:** DI MATTEO S., PERKINS N.B., NATOLI C.R., “Spin-1 effective hamiltonian with three degenerate orbitals: An application to the case of V₂O₃”, *Physical Review B* **65**, 054413-1-054413-36 (2002).

75. **02RO190:** ROZENBERG G.K., DUBROVINSKY L.S., PASTERNAK M.P., NAAMAN O., LE BIHAN T., AHUJA R., "High-pressure structural studies of hematite Fe_2O_3 ", *Physical Review B* **65**, 064112-1-064112-8 (2002).
76. **02EH191:** EHM L., KNORR K., KRIMMEL A., BOUVIER P., MEZOUAR M., DEPMEIER W., "High-pressure phase transition in the Chevrel phase SnMo_6S_8 ", *Hochdruckkristallographie* **AK 2**, 20 (2002).
77. **02FR192:** FRIEDRICH A., KUNZ M., MILETICH R., PATTISON P., "High-pressure phase transitions of $\beta\text{-Ba(OH)}_2$ ", *Hochdruckkristallographie* **AK 2**, 20 (2002).
78. **02HA193:** HAUMANN M., GRABOLLE M., NEISIUS T., DAU H., "The first room-temperature X-ray absorption spectra of higher oxidation states of the tetra-manganese complex of photosystem II", *FEBS Letters* **512**, 116-120 (2002).
79. **02KR194:** KRÜGER P., "Impurity model calculations for Mn 2p photoemission spectra of ultrathin Mn films on Ag(001)", *Physica B* **318**, 310-315 (2002).
80. **02PO195:** PONTONI D., NARAYANAN T., RENNIE A.R., "High-dynamic range SAXS data acquisition with an X-ray image intensifier", *Journal of Applied Crystallography* **35**, 207-211 (2002).
81. **02MA196:** MARQUES L., MEZOUAR M., HODEAU J.L., NUÑEZ-REGUEIRO M., "Imprinting of anisotropic stress during C_{60} high-pressure/high-temperature polymerization process", *Physical Review B* **65**, 100101-1-100101-4 (2002).
82. **02NU197:** NUTTALL W.J., PERRY S.C., STIRLING W.G., MITCHELL P.W., KILCOYNE S.H., CYWINSKI R., "Antiferromagnetic critical phenomena in USb", *Physica B* **315**, 179-186 (2002).
83. **02SO198:** SOLLIER A., PAOLASINI L., GHIGNA P., CACIUFFO R., "Resonant X-ray scattering study of KCuF_3 ", *Physica B* **312-313**, 589-591 (2002).
84. **02BA199:** BARUCHEL J., HÄRTWIG J., PERNOT-REJMANKOVA P., "Present state and perspectives of synchrotron radiation diffraction imaging", *Journal of Synchrotron Radiation* **9**, 107-114 (2002).
85. **02AR200:** ARUTA C., RICCI F., BALESTRINO G., LAVANGA S., MEDAGLIA P.G., ORGIANI P., TEBANO A., ZEGENHAGEN J., "Growth mode of epitaxial superlattices $[\text{BaCuO}_{2+x}]_2/[\text{CaCuO}_2]_3$ on vicinal (001) SrTiO_3 substrates studied by X-ray diffraction", *Physical Review B* **65**, 195408-1-195408-9 (2002).
86. **02BE201:** BENFATTO M., FELICI R., COMIN F., "Diffracted anomalous fine structure (DAFS) to study surfaces and interfaces", In: "X-Ray and Inner - Shell Processes" DUNFORD R.W. (American Institute of Physics, 2002) pp. 351-357.
87. **02CA204:** CAMPBELL T., DENT A.J., DIAZ-MORENO S., EVANS J., FIDDY S.G., NEWTON M.A., TURIN S., "Susceptibility of a heterogeneous catalyst, Rh/ γ -alumina, to rapid structural change by exposure to NO", *Chemical Communications*, 304-305 (2002).
88. **02GH205:** GHOSH R., FERRERO C., "CanSAS-3 meeting", *Synchrotron Radiation News* **15**, 25-27 (2002).
89. **02FE207:** FERNANDEZ M., KEYRILÄINEN J., SERIMAA R., TORKKELI M., KARJALAINEN-LINDSBERG M.L., TENHUNEN M., THOMLINSON W., URBAN V., SUORTTI P., "Small-angle X-ray scattering studies of human breast tissue samples", *Physics in Medicine and Biology* **47**, 577-592 (2002).
90. **02OR208:** ORTEGA R., DEVES G., BONNIN-MOSBAH M., SALOME M., SUSINI J., ANDERSON L.M., KASPRZAK K.S., "Chromium mapping in male mice reproductive glands exposed to CrCl_3 using proton and X-ray synchrotron radiation microbeams", *Nuclear Instruments and Methods in Physics Research B* **181**, 485-488 (2001).
91. **02OR209:** ORTEGA R., DEVES G., BOHIC S., SIMIONOVICI A., MENEZ B., BONNIN-MOSBAH M., "Iron distribution in cancer cells following doxorubicin exposure using proton and X-ray synchrotron radiation microprobes", *Nuclear Instruments and Methods in Physics Research B* **181**, 480-484 (2001).
92. **02DA210:** DALLERA C., GRIONI M., SHUKLA A., VANKO G., SARRAO J.L., RUEFF J.P., COX D.L., "New spectroscopy solves an old puzzle: The Kondo scale in heavy fermions", *Physical Review Letters* **88**, 196403-1-196403-4 (2002).
93. **02BR211:** BRUNELLI M., FITCH A.N., MORA A.J., "Low-temperature crystal structure of S-camphor solved from powder synchrotron X-ray diffraction data by simulated annealing", *Journal of Solid State Chemistry* **163**, 253-258 (2002).
94. **02JI212:** JIANG J.Z., LINDELOV H., GERWARD L., STÅHL K., RECIO J.M., MORI-SANCHEZ P., CARLSON S., MEZOUAR M., DOORYHEE E., FITCH A., FROST D.J., "Compressibility and thermal expansion of cubic silicon nitride", *Physical Review B* **65**, 161202-1-161202-4 (2002).
95. **02HA213:** HANFLAND M., SYASSEN K., KÖHLER J., "Pressure-volume relationship of Ta", *Journal of Applied Physics* **91**, 4143-4148 (2002).

96. **02BO214:** BOUVIER P., KREISEL J., “Pressure-induced phase transition in LaAlO_3 ”, *Journal of Physics Condensed Matter* **14**, 3981-3991 (2002).
97. **02EG215:** EGGERT J.H., WECK G., LOUBEYRE P., MEZOUAR M., “Quantitative structure factor and density measurements of high-pressure fluids in diamond anvil cells by X-ray diffraction: Argon and water”, *Physical Review B* **65**, 174105-1-174105-12 (2002).
98. **02RO216:** RODRIGUEZ F., HANFLAND M., ITIE J.P., POLIAN A., “Optical properties of A_2CuCl_4 layer perovskites under pressure. Structural correlations”, In: "Frontiers of High Pressure Research II: Application of High Pressure to Low-Dimensional Novel Electronic Materials" HOCHHEIMER H.D. et al. (Eds.) (Kluwer Academic Publishers, 2001) pp. 143-153.
99. **02WE217:** WESS T., ALBERTS I., HILLER J., DRAKOPOULOS M., CHAMBERLAIN A.T., COLLINS M., “Microfocus small angle X-ray scattering reveals structural features in archaeological bone samples: Detection of changes in bone mineral habit and size”, *Calcified Tissue International* **70**, 103-110 (2001).
100. **02TO218:** TORRELLES X., RIUS J., HIRNET A., MORITZ W., PEDIO M., FELICI R., RUDOLF P., CAPOZI M., BOSCHERINI F., HEUN S., MUELLER B.H., FERRER S., “Real examples of surface reconstructions determined by direct methods”, *Journal of Physics Condensed Matter* **14**, 4075-4086 (2002).
101. **02MI219:** MITCHELL J.B.A., REBRION-ROWE C., LEGARREC J.L., TAUPIER G., HUBY N., WULFF M., “Nanoparticle destruction by X-ray absorption”, *Astronomy and Astrophysics* **386**, 743-747 (2002).
102. **02NE220:** NEWTON M.A., BURNABY D.G., DENT A.J., DIAZ-MORENO S., EVANS J., FIDDY S.G., NEISIUS T., TURIN S., “Energy dispersive extended X-ray absorption fine structure, mass spectrometric, and diffuse reflectance infrared studies of the interaction of Al_2O_3 -supported $\text{Rh}^1(\text{CO})_2\text{Cl}$ species with NO and re-formation under CO”, *Journal of Physical Chemistry B* **106**, 4214-4222 (2002).
103. **02YA221:** YAVARI A.R., BOTTA FILHO W.J., RODRIGUES C.A.D., GREER A.L., URIARTE J.L., HUENEN G., VAUGHAN G., INOUE A., “FeNiB-based metallic glasses with fcc crystallisation products”, *Journal of Non-Crystalline Solids* **304**, 44-50 (2002).
104. **02CH222:** CHAMARD V., METZGER T., BELLET-AMALRIC E., DAUDIN B., MARIETTE H., “Investigation of GaN quantum dot stacking in multilayers with X-ray grazing incidence techniques”, *Materials Science and Engineering B* **93**, 24-27 (2002).
105. **02KU223:** KUNZ M., GILLET P., FIQUET G., SAUTTER V., GRAAFSMA H., CONRAD P., HARRIS J., “Combined in situ X-ray diffraction and Raman spectroscopy on majoritic garnet inclusions in diamonds”, *Earth and Planetary Science Letters* **198**, 485-493 (2002).
106. **02DA224:** D'ASTUTO M., GIURA P., KRISCH M., LORENZEN M., MERMET A., MONACO G., REQUARDT H., SETTE F., SHUKLA A., VERBENI R., “Phonon dispersion studies of crystalline materials using high-energy resolution inelastic X-ray scattering (IXS)”, *Physica B* **316-317**, 150-153 (2002).
107. **02JA225:** JABLONSKA A., BURIAN A., BURIAN A.M., SZADE J., PROUX O., HAZEMANN J.L., MOSSET A., RAOUX D., “Studies of short-range ordering in amorphous In–Se films by EXAFS”, *Journal of Non-Crystalline Solids* **299-302**, 238-242 (2002).
108. **02BE226:** BERGONZO P., BARRETT R., HAINAUT O., TROMSON D., MER C., GUIZARD B., “Imaging of the sensitivity in detector grade polycrystalline diamonds using micro-focused X-ray beams”, *Diamond and Related Materials* **11**, 418-422 (2002).
109. **02GU227:** GUREYEV T.E., STEVENSON A.W., PAGANIN D.M., WEITKAMP T., SNIGIREV A., SNIGIREVA I., WILKINS S.W., “Quantitative analysis of two-component samples using in-line hard X-ray images”, *Journal of Synchrotron Radiation* **9**, 148-153 (2002).
110. **02RO228:** ROYANT A., GRIZOT S., KAHN R., BELRHALI H., FIESCHI F., LANDAU E.M., PEBAY-PEYROULA E., “Detection and characterization of merohedral twinning in two protein crystals: Bacteriorhodopsin and $\text{p}67^{\text{phox}}$ ”, *Acta Crystallographica D* **58**, 784-791 (2002).
111. **02KU229:** KUSER P., HALL D.R., HAW M.L., NEU M., EVANS R.W., LINDLEY P.F., “The mechanism of iron uptake by transferrins: The X-ray structures of the 18 kDa NII domain fragment of duck ovotransferrin and its nitrilotriacetate complex”, *Acta Crystallographica D* **58**, 777-783 (2002).
112. **02HA230:** HÄMÄLÄINEN K., GALAMBOSI S., SOININEN J.A., SHIRLEY E.L., RUEFF J.P., SHUKLA A., “Momentum dependence of fluorine *K*-edge core exciton in LiF”, *Physical Review B* **65**, 155111-1-155111-5 (2002).
113. **02BO231:** BORAGNO C., BUATIER DE MONGEOT F., COSTANTINI G., VALBUSA U., FELICI R., SMILGIES D.M., FERRER S., “*In situ* X-ray scattering of Ag(110) nanostructuring by ion erosion”, *Physical Review B* **65**, 153406-1-153406-4 (2002).

114. **02KR232:** KRISCH M., BRAND R.A., CHERNIKOV M., OTT H.R., “Phonons in the icosahedral quasicrystal *i*-AlPdMn studied by inelastic X-ray scattering”, *Physical Review B* **65**, 134201-1-134201-7 (2002).
115. **02ZA233:** ZARAND G., COSTI T., JEREZ A., ANDREI N., “Thermodynamics of the anisotropic two-channel Kondo problem”, *Physical Review B* **65**, 134416-1-134416-9 (2002).
116. **02PO234:** PONCHUT C., VISSCHERS J.L., FORNAINI A., GRAAFSMA H., MAIORINO M., METTIVIER G., CALVET D., “Evaluation of a photon-counting hybrid pixel detector array with a synchrotron X-ray source”, *Nuclear Instruments and Methods in Physics Research A* **484**, 396-406 (2002).
117. **02MA235:** MARTY L., BOUCHIAT V., BONNOT A.M., CHAUMONT M., FOURNIER T., DECOSSAS S., ROCHE S., “Batch processing of nanometer-scale electrical circuitry based on in-situ grown single-walled carbon nanotubes”, *Microelectronic Engineering* **61-62**, 485-489 (2002).
118. **02DA236:** DAVID C., NÖHAMMER B., ZIEGLER E., “Wet etching of linear Fresnel zone plates for hard X-rays”, *Microelectronic Engineering* **61-62**, 987-992 (2002).
119. **02DA237:** DALLERA C., KRISCH M., ROGALEV A., GOULON J., SETTE F., “Resonant inelastic X-ray scattering at the L_3 edge of Eu^{2+} , Gd^{3+} , and Tb^{4+} compounds”, *Physica B* **312-313**, 850-852 (2002).
120. **02CA238:** CATTARUZZA E., D'ACAPITO F., DE JULIAN FERNANDEZ C., DE LORENZI A., GONELLA F., MATTEI G., MAURIZIO C., MAZZOLDI P., PADOVANI S., SCREMIN B.F., ZONTONE F., “Sequential ion implantation of copper and cobalt in silica glass : A study by synchrotron radiation techniques”, *Nuclear Instruments and Methods in Physics Research B* **191**, 406-410 (2002).
121. **02BO239:** BORSELLA E., DE JULIAN FERNANDEZ C., GARCIA M.A., MATTEI G., MAURIZIO C., MAZZOLDI P., PADOVANI S., SADA C., BATTAGLIN G., CATTARUZZA E., GONELLA F., QUARANTA A., D'ACAPITO F., TAGLIENTE M.A., TAPFER L., “Synthesis of wide band gap nanocrystals by ion implantation”, *Nuclear Instruments and Methods in Physics Research B* **191**, 447-451 (2002).
122. **02MA240:** MARANGOLO M., GUSTAVSSON F., EDDRIEF M., SAINCTAVIT P., ETGENS V.H., CROS V., PETROFF F., GEORGE J.M., BENCOK P., BROOKES N.B., “Magnetism of the Fe/ZnSe(001) interface”, *Physical Review Letters* **88**, 217202-1-217202-4 (2002).
123. **02SU241:** SUBIAS G., GARCIA J., BLASCO J., SANCHEZ M.C., PROIETTI M.G., “Mn local structure effects in charge-ordered mixed-valence $\text{RE}_{1-x}\text{Ca}_x\text{MnO}_3$ (RE: La, Tb) perovskites: A review of the experimental situation”, *Journal of Physics Condensed Matter* **14**, 5017-5033 (2002).
124. **02BR242:** BRAVIN A., FIEDLER S., THOMLINSON W.C., “Very low dose mammography: New perspectives in Diffraction Enhanced Imaging (DEI) mammography”, *Proceedings SPIE* **4682**, 167-173 (2002).
125. **02SL243:** SLADECEK M., SEPIOL B., KAISERMAYR M., KORECKI J., HANDKE B., THIESS H., LEUPOLD O., RÜFFER R., VOGL G., “Enhanced iron self-diffusion in the near-surface region investigated by nuclear resonant scattering”, *Surface Science* **507-510**, 124-128 (2002).
126. **02BO244:** BOWRON D.T., DIAZ-MORENO S., “The structure of a concentrated aqueous solution of tertiary butanol: Water pockets and resulting perturbations”, *Journal of Chemical Physics* **117**, 3753-3762 (2002).
127. **02BO245:** BOEGLIN C., STANESCU S., CHERIFI S., DEVILLE J.P., OHRESSER P., BARBIER A., BROOKES N.B., “High dipolar magnetic moment observed on Ni/Cu(111) nanostructures by magnetic circular X-ray dichroism”, *Surface Science* **507-510**, 522-529 (2002).
128. **02BA246:** BAKER S.H., BINNS C., EDMONDS K.W., MAHER M.J., THORNTON S.C., LOUCH S., DHESI S.S., “Enhancements in magnetic moments of exposed and Co-coated Fe nanoclusters as a function of cluster size”, *Journal of Magnetism and Magnetic Materials* **247**, 19-25 (2002).
129. **02AU247:** AUSANIO G., IANNOTTI V., MILETTO GRANOZIO F., MENEGHINI C., MINICUCCI M., RICCI F., LANOTTE L., “EXAFS analysis of short-range rearrangement during transition from the amorphous to the crystalline phase in ferromagnetic metallic glass”, *Journal of Magnetism and Magnetic Materials* **242-245**, 904-906 (2002).
130. **02MO248:** MONACO G., CUNSOLO A., PRATESI G., SETTE F., VERBENI R., “Deep inelastic atomic scattering of X-rays in liquid neon”, *Physical Review Letters* **88**, 227401-1-227401-4 (2002).
131. **02SC249:** SCHÜLLI T., TRENKLER J., MÖNCH I., LE BOLLOCH D., DOSCH H., “X-ray study of the structure and order in lithographic Cu_3Au nano-cuboids”, *Europhysics Letters* **58**, 737-743 (2002).
132. **02TO250:** TOMITA S., BURIAN A., DORE J.C., LE BOLLOCH D., FUJII M., HAYASHI S., “Diamond nanoparticles to carbon onions transformation: X-ray diffraction studies”, *Carbon* **40**, 1469-1474 (2002).

133. **02EV251:** EVANS J., O'NEILL L., KAMBHAMPATI V.L., RAYNER G., TURIN S., GENGE A., DENT A.J., NEISIUS T., "Structural characterisation of solution species implicated in the palladium-catalysed Heck reaction by Pd K-edge X-ray absorption spectroscopy: Palladium acetate as a catalyst precursor", *Journal of the Chemical Society Dalton Transactions*, 2207-2212 (2002).
134. **02BO252:** BONGAERTS J.H.H., ZWANENBURG M.J., ZONTONE F., VAN DER VEEN J.F., "Propagation of coherent X-rays in a multistep-index X-ray waveguide", *Journal of Applied Physics* **90**, 94-100 (2001).
135. **02NA253:** NAGY D.L., BOTTYAN L., CROONENBORGHES B., DEAK L., DEGROOTE B., DEKOSTER J., LAUTER H.J., LAUTER-PASYUK V., LEUPOLD O., MAJOR M., MEERSSCHAUT J., NIKONOV O., PETRENKO A., RÜFFER R., SPIERING H., SZILÁGYI E., "Coarsening of antiferromagnetic domains in multilayers: The key role of magnetocrystalline anisotropy", *Physical Review Letters* **88**, 157202-1-157202-4 (2002).
136. **02BL254:** BLANKENFELDT W., KERR I.D., GIRAUD M.F., MCMIKEN H.J., LEONARD G., WHITFIELD C., MESSNER P., GRANINGER M., NAISMITH J.H., "Variation on a theme of SDR: dTDP-6-Deoxy-L-*lyxo*-4-hexulose reductase (RmID) shows a new Mg²⁺-dependent dimerization mode", *Structure* **10**, 773-786 (2002).
137. **02WE255:** WELCH M.D., CRICHTON W.A., "Compressibility of clinocllore to 8 GPa at 298 K and a comparison with micas", *European Journal of Mineralogy* **14**, 561-565 (2002).
138. **02BO256:** BORGHI E., SOLARI P.L., BELTRAMINI M., BUBACCO L., DI MURO P., SALVATO B., "Oxidized derivatives of *Octopus vulgaris* and *Carcinus aestuarii* hemocyanins at pH 7.5 and related models by X-ray absorption spectroscopy", *Biophysical Journal* **82**, 3254-3268 (2002).
139. **02GO257:** GOULON J., ROGALEV A., WILHELM F., GOULON-GINET C., CARRA P., CABARET D., BROUDER C., "X-ray magnetochiral dichroism: A new spectroscopic probe of parity nonconserving magnetic solids", *Physical Review Letters* **88**, 237401-1-237401-4 (2002).
140. **02SE258:** SERRANO J., STREMPFER J., CARDONA M., SCHWOERER-BÖHNING M., REQUARDT H., LORENZEN M., STOJETZ B., PAVONE P., CHOYKE W.J., "Determination of the phonon dispersion of zinc blende (3C) silicon carbide by inelastic X-ray scattering", *Applied Physics Letters* **80**, 4360-4362 (2002).
141. **02PR259:** PRZENIOSLO R., SOSNOWSKA I., SUARD E., HEWAT E., FITCH A.N., "Phase coexistence in the charge ordering transition in CaMn₇O₁₂", *Journal of Physics Condensed Matter* **14**, 5747-5753 (2002).
142. **02KE260:** KEMNER E., OVERWEG A.R., VAN EIJCK L., FITCH A.N., SUARD E., DE SCHEPPER I.M., KEARLEY G.J., "Localization of ferrocene in NaY zeolite by powder X-ray and neutron diffraction", *Journal of Chemical Physics* **116**, 10838-10845 (2002).
143. **02EY261:** EYMERY J., BUTTARD D., FOURNEL F., MORICEAU H., BAUMBACH G.T., LÜBBERT D., "Dislocation strain field in ultrathin bonded silicon wafers studied by grazing incidence X-ray diffraction", *Physical Review B* **65**, 165337-1-165337-6 (2002).
144. **02GA262:** GARCIA-PRIETO A., FDEZ-GUBIEDA M.L., MENEGHINI C., GARCIA-ARRIBAS A., "Correlation among the structural and magnetic properties of CoCu granular alloys", *Journal of Applied Physics* **91**, 8596-8598 (2002).
145. **02WE263:** WENDE H., LI Z., SCHERZ A., CEBALLOS G., BABERSCHKE K., ANKUDINOV A., REHR J.J., WILHELM F., ROGALEV A., SCHLAGEL D.L., LOGRASSO T.A., "Quadrupolar and dipolar contributions to X-ray magnetic circular dichroism at the Tb L_{3,2} edges: Experiment versus theory", *Journal of Applied Physics* **91**, 7361-7363 (2002).
146. **02GE264:** GEIS A., BOURIAU M., PLECH A., SCHOTTE F., TECHERT S., TROMMSDROFF H.P., WULFF M., BLOCK D., "Direct time-resolved studies of photochemical reactions in liquids by X-ray scattering", *Journal of Luminescence* **94-95**, 493-498 (2001).
147. **02DA265:** D'ASTUTO M., KRISCH M., LORENZEN M., MERMET A., MONACO G., REQUARDT H., SETTE F., VERBENI R., LOUBEYRE P., LE TOULLEC R., OCCELLI F., FIQUET G., BADRO J., GUYOT F., "Determination of phonon dispersion curves at gigapascal pressures by inelastic X-ray scattering", *High Pressure Research* **22**, 73-77 (2002).
148. **02RU266:** RUEFF J.P., KRISCH M., LORENZEN M., "Magnetic transitions in Fe₃Pt invar alloy under high pressure and temperature studied by inelastic X-ray scattering", *High Pressure Research* **22**, 53-56 (2002).
149. **02PE268:** PELLICER-PORRES J., SEGURA A., FERRER C., MUÑOZ V., SAN MIGUEL A., POLIAN A., ITIE J.P., GAUTHIER M., PASCARELLI S., "High-pressure X-ray absorption study of GaSe", *Physical Review B* **65**, 174103-1-174103-7 (2002).

150. **02AN269:** ANGELINI R., GIURA P., MONACO G., RUOCCO G., SETTE F., VERBENI R., “Structural and microscopic relaxation processes in liquid hydrogen fluoride”, *Physical Review Letters* **88**, 255503-1-255503-4 (2002).
151. **02CA270:** CASERO E., ALONSO C., MARTIN-GAGO J.A., BORGATTI F., FELICI R., RENNER F., LEE T.L., ZEGENHAGEN J., “Nitric-oxide adsorption and oxidation on Pt(111) in electrolyte solution under potential control”, *Surface Science* **507-510**, 688-694 (2002).
152. **02SC272:** SCHMÖLZER S., GRÄBNER D., GRADZIELSKI M., NARAYANAN T., “Millisecond-range time-resolved small-angle X-ray scattering studies of micellar transformations”, *Physical Review Letters* **88**, 258301-1-258301-4 (2002).
153. **02GO273:** GORELLI F.A., SANTORO M., ULIVI L., HANFLAND M., “Crystal structure of solid oxygen at high pressure and low temperature”, *Physical Review B* **65**, 172106-1-172106-4 (2002).
154. **02CA274:** CACIUFFO R., PAOLASINI L., SOLLIER A., GHIGNA P., PAVARINI E., VAN DER BRINK J., ALTARELLI M., “Resonant X-ray scattering study of magnetic and orbital order in KCuF_3 ”, *Physical Review B* **65**, 174425-1-174425-9 (2002).
155. **02MI275:** MITCHELL J.B.A., REBRION-ROWE C., LEGARREC J.L., TAUPIER G., HUBY N., WULFF M., “X-ray synchrotron radiation probing of an ethylene diffusion flame”, *Combustion and Flame* **131**, 308-315 (2002).
156. **02NI276:** NIKULIN A.Y., SIU K., DAVIS J.R., ZAUMSEIL P., SOUVOROV A.Y., FREUND A., “Application of the phase-retrieval X-ray diffractometry to an ultra-high spatial resolution mapping of SiGe films near the absorption edge of Ge”, *Physica Status Solidi (a)* **184**, 145-155 (2001).
157. **02AL277:** ALIANELLI L., SANCHEZ DEL RIO M., FELICI R., “Study of models for ray-tracing simulations of thermal neutron monochromators”, *Proceedings SPIE* **4509**, 135-144 (2001).
158. **02VA278:** VAVRIK D., JAKUBEK J., VISSCHERS J., POSPISIL S., PONCHUT C., ZEMANKOVA J., “First tests of a Medipix-1 pixel detector for X-ray dynamic defectoscopy”, *Nuclear Instruments and Methods in Physics Research A* **487**, 216-223 (2002).
159. **02DI279:** DI GASPARE L., NOTARGIACOMO A., EVANGELISTI F., PALANGE E., PASCARELLI S., SUSINI J., “X-ray scanning microscope study of strain instabilities in low mismatched SiGe alloys grown on Si(001) substrates”, *Solid State Communications* **122**, 359-362 (2002).
160. **02HA280:** HATTON P.D., GHAZI M.E., WILKINS S.B., SPENCER P.D., MANNIX D., D'ALMEIDA T., PRABHAKARAN P., BOOTHROYD A., CHEONG S.W., “X-ray scattering studies of charge stripes in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$ ($x = 0.20-0.33$)”, *Physica B* **318**, 289-294 (2002).
161. **02SO281:** SOLOZHENKO V.L., TURKEVICH V.Z., KURAKEVYCH O.O., CRICHTON W.A., MEZOUAR M., “Kinetics of diamond crystallization from the melt of the Fe-Ni-C system”, *Journal of Physical Chemistry B* **106**, 6634-6637 (2002).
162. **02TA282:** TAYLOR J.W., DUFFY J.A., BEBB A.M., COOPER M.J., LEES M.R., MAJUMDAR S., MCCARTHY J.E., TIMMS D.N., DETLEFS C., CANFIELD P.C., “Spin-polarized electron momentum density distributions $\text{RE}\text{Mn}_2\text{Ge}_2$ (RE = Gd, La)”, *Physica B* **318**, 267-271 (2002).
163. **02DI283:** DIVISIA-BLOHORN B., GENOUD F., SALHI F., MÜLLER H., “Poly(dibenzylidenetetrahiapentalene): A redox-active, linearly extended TTF polymer”, *Journal of Physical Chemistry B* **106**, 6646-6651 (2002).
164. **02WI284:** WILKINS S.B., SPENCER P.D., HATTON P.D., MANNIX D., BROWN S.D., D'ALMEIDA T., CHEONG S.W., “Charge and orbital order in the electron doped magnanite $(\text{Bi,Ca})\text{MnO}_3$ ”, *Physica B* **318**, 295-299 (2002).
165. **02UE285:** UEKI T., TAKEMOTO K., FAYARD B., SALOME M., YAMAMOTO A., KIHARA H., SUSINI J., SCIPPA S., UYAMA T., MICHIBATA H., “Scanning X-ray microscopy of living and freeze-dried blood cells in two vanadium-rich ascidian species, *Phallusia mammillata* and *Ascidia sydneiensis samea*”, *Zoological Science* **19**, 27-35 (2002).
166. **02ZE286:** ZETH K., DOUGAN D.A., CUSACK S., BUKAU B., RAVELLI R.B., “Crystallization and preliminary X-ray analysis of the *Escherichia coli* adaptor protein ClpS, free and in complex with the N-terminal domain of ClpA”, *Acta Crystallographica D* **58**, 1207-1210 (2002).
167. **02DI287:** DI MATTEO S., “Ground state symmetry of the antiferromagnetic phase of V_2O_3 ”, *Physica B* **318**, 321-327 (2002).
168. **02ME288:** METRICH N., BONNIN-MOSBAH M., SUSINI J., MENEZ B., GALOISY L., “Presence of sulfite (S^{IV}) in arc magmas: Implications for volcanic sulfur emissions”, *Geophysical Research Letters* **29**, 33-1-33-4 (2002).

169. **02MA289:** MARANGOLO M., BELLIN C., LOUPIAS G., RABII S., ERWIN S.C., BUSLAPS T., ISSOLAH A., “Evidence of a weak electronic density distortion in polymerized A_1C_{60} ($A = K$ and Rb) compared to pristine C_{60} ”, *Physica B* **318**, 365-371 (2002).
170. **02BI290:** BINNS C., BAKER S.H., EDMONDS K.W., FINETTI P., MAHER M.J., LOUCH S.C., DHESI S.S., BROOKES N.B., “Magnetism in exposed and coated nanoclusters studied by dichroism in X-ray absorption and photoemission”, *Physica B* **318**, 350-359 (2002).
171. **02SC291:** SCOPIGNO T., BALUCANI U., RUOCCO G., SETTE F., “Inelastic X-ray scattering and the high-frequency dynamics of disordered systems”, *Physica B* **318**, 341-349 (2002).
172. **02CA292:** CAPPELLO G., CHEVRIER J., SCHMITHÜSEN F., STIERLE A., FORMOSO V., COMIN F., DE BOISSIEU M., BOUDARD M., LOGRASSO T., JENKS C., DELANEY D., “Morphological evolution of the fivefold surface of *i*-AlPdMn quasicrystal”, *Physical Review B* **65**, 245405-1-245405-7 (2002).
173. **02WE293:** WELCH M.D., CRICHTON W.A., “Compressibility to 7 GPa at 298 K of the protonated octohedral framework mineral burtite, $CaSn(OH)_6$ ”, *Mineralogical Magazine* **66**, 431-440 (2002).
174. **02GR294:** GRZECHNIK A., BOUVIER P., CRICHTON W.A., FARINA L., KÖHLER J., “Metastable $NaYF_4$ fluorite at high pressures and high temperatures”, *Solid State Sciences* **4**, 895-899 (2002).
175. **02BO295:** BOUVIER P., CRICHTON W.A., BOULOVA M., LUCAZEAU G., “X-ray diffraction study of WO_3 at high pressure”, *Journal of Physics Condensed Matter* **14**, 6605-6617 (2002).
176. **02CR296:** CRICHTON W.A., ROSS N.L., “Equation of state of dense hydrous magnesium silicate phase A, $Mg_7Si_2O_8(OH)_6$ ”, *American Mineralogist* **87**, 333-338 (2002).
177. **02MA297:** MAURIN J., MARGADONNA S., PRASSIDES K., TAKENOBU T., ITO T., CHI D.H., IWASA Y., FITCH A., “Phase separation in carbon-doped MgB_2 superconductors”, *Physica B* **318**, 392-397 (2002).
178. **02BO298:** BORAGNO C., BUATIER DE MONGEOT F., COSTANTINI G., VALBUSA U., FELICI R., SMILGIES D.M., FERRER S., “Ion etching of $Ag(110)$ studied by X-ray and STM”, *Nuclear Instruments and Methods in Physics Research B* **193**, 590-595 (2002).
179. **02GA299:** GARCIA-MURILLO A., LE LUYER C., DUJARDIN C., MARTIN T., GARAPON C., PEDRINI C., MUGNIER J., “Elaboration and scintillation properties of Eu^{3+} -doped Gd_2O_3 and Lu_2O_3 sol-gel films”, *Nuclear Instruments and Methods in Physics Research A* **486**, 181-185 (2002).
180. **02PF300:** PFEIFFER F., DAVID C., BURGHAMMER M., RIEKEL C., SALDITT T., “Two-dimensional X-ray waveguides and point sources”, *Science* **297**, 230-234 (2002).
181. **02CH301:** CHAMARD V., METZGER T.H., FERRERO C., BELLET-AMALRIC E., DAUDIN B., MARIETTE H., MULA G., “Structure and ordering of GaN quantum dot multilayer investigated by X-ray grazing incidence techniques”, *Physica E* **13**, 1115-1118 (2002).
182. **02VI302:** VITTONI E., LO GIUDICE A., PAOLINI C., FIZZOTTI F., MANFREDOTTI C., BARRETT R., “Imaging of charge collection properties of a CVD diamond detector using X-ray-induced current microscopy”, *Diamond and Related Materials* **11**, 1472-1478 (2002).
183. **02GR303:** GRENIER S., TOADER A., LORENZO J.E., JOLY Y., GRENIER B., RAVY S., REGNAULT L.P., RENEVIER H., HENRY J.Y., JEGOUDEZ J., REVCOLEVSCHI A., “X-ray anomalous scattering investigations on the charge order in α' - NaV_2O_5 ”, *Physical Review B* **65**, 180101-1-180101-4 (2002).
184. **02OW304:** OWENS A., ANDERSSON H., BAVDAZ M., VAN DEN BERG L., PEACOCK A., PUIG A., “The hard X-ray response of a large area HgI_2 detector”, *Nuclear Instruments and Methods in Physics Research A* **487**, 90-95 (2002).
185. **02BO305:** BORSELLA E., DAL TOE S., MATTEI G., MAURIZIO C., MAZZOLDI P., SABER A., BATTAGLIN G.C., CATTARUZZA E., GONELLA F., QUARANTA A., D'ACAPITO F., “Synthesis, structure and optical properties of GaN nanocrystals prepared by sequential ion implantation in dielectrics”, *Materials Science and Engineering B* **82**, 148-150 (2001).
186. **02BA306:** BALERNA A., DEGANELLO G., LIOTTA L., LONGO A., MARTORANA A., MENEGHINI C., MOBILIO S., VENEZIA A.M., “EXAFS and XRD study of Pd-Ag bimetallic catalysts supported on pumice from organometallic precursors”, *Journal of Non-Crystalline Solids* **293-295**, 682-687 (2001).
187. **02CA307:** CAMERANI M.C., SOMOGYI A., DRAKOPOULOS M., STEENARI B.M., “Synchrotron radiation induced μ -X-ray fluorescence spectroscopy on municipal solid waste fly ashes”, *Spectrochimica Acta B* **56**, 1355-1365 (2001).

188. **02WU308:** WUNSCHER M., DINNEBIER R.E., CARLSON S., VAN SMAALEN S., “Bulk modulus and non-uniform compression of Nb₃Te₄ and In_xNb₃Te₄ (x < 1) channel compounds”, *Acta Crystallographica B* **57**, 665-672 (2001).
189. **02ES309:** ESTEVE F., ELLEAUME H., BERTRAND B., CHARVET A.M., FIEDLER S., LE DUC G., CORDE S., NEMOZ C., RENIER M., LEFAIX J.L., LEPLAT J.J., SUORTTI P., THOMLINSON W., LE BAS J.F., “Coronary angiography with synchrotron X-ray source on pigs after iodine or gadolinium intravenous injection”, *Academic Radiology* **9** (Suppl. 1), S92-S97 (2002).
190. **02PO310:** POLUSHKIN E., ALBERDA VAN EKENSTEIN G.O.R., KNAAPILA M., RUOKOLAINEN J., TORKKELI M., SERIMAA R., BRAS W., DOLBANYA I., IKKALA O., TEN BRINKE G., “Intermediate segregation type chain length dependence of the long period of lamellar microdomain structures of supramolecular comb-coil diblocks”, *Macromolecules* **34**, 4917-4922 (2001).
191. **02MO311:** MORCLETTE M., CHABRE Y., VAUGHAN G., AMATUCCI G., LERICHE J.B., PATOUX S., MASQUELIER C., TARASCON J.M., “In situ X-ray diffraction techniques as a powerful tool to study battery electrode materials”, *Electrochimica Acta* **47**, 3137-3149 (2002).
192. **02MO315:** MONTES-MORAN M.A., DAVIES R.J., RIEKEL C., YOUNG R.J., “Deformation studies of single rigid-rod polymer-based fibres. Part 1. Determination of crystal modulus”, *Polymer* **43**, 5219-5226 (2002).
193. **02HA316:** HASEGAWA Y., LOIDL R., BADUREK G., BARON M., MANINI N., PISTOLESI F., RAUCH H., “Observation of off-diagonal geometric phases in polarized-neutron-interferometer experiments”, *Physical Review A* **65**, 052111-1-052111-10 (2002).
194. **02AY317:** AYALA R., SANCHEZ MARCOS E., DIAZ-MORENO S., SOLE V.A., MUÑOZ-PAEZ A., “Geometry and hydration structure of Pt(II) square planar complexes [Pt(H₂O)₄]²⁺ and [PtCl₄]²⁻ as studied by X-ray absorption spectroscopies and quantum-mechanical computations”, *Journal of Physical Chemistry B* **105**, 7588-7593 (2001).
195. **02GA318:** GAMBARDELLA P., DHESI S.S., GARDONIO S., GRAZIOLI C., OHRESSER P., CARBONE C., “Localized magnetic states of Fe, Co, and Ni impurities on alkali metal films”, *Physical Review Letters* **88**, 047202-1-047202-4 (2002).
196. **02ST319:** STEENEKEN P.G., TJENG L.H., ELFIMOV I., SAWATZKY G.A., GHIRINGHELLI G., BROOKES N.B., HUANG D.J., “Exchange splitting and charge carrier spin polarization in EuO”, *Physical Review Letters* **88**, 047201-1-047201-4 (2002).
197. **02OH320:** OHRESSER P., BROOKES N.B., PADOVANI S., SCHEURER F., BULOUE H., “Magnetism of small Fe clusters on Au(111) studied by X-ray magnetic circular dichroism”, *Physical Review B* **64**, 104429-1-104429-8 (2001).
198. **02ME321:** MEYERHEIM H.L., SANDER D., POPESCU R., STEADMAN P., FERRER S., KIRSCHNER J., “Interlayer relaxation of W(110) studied by surface X-ray diffraction”, *Surface Science* **475**, 103-108 (2001).
199. **02ME322:** MEYERHEIM H.L., SANDER D., POPESCU R., KIRSCHNER J., STEADMAN P., FERRER S., “Surface structure and stress in Fe monolayers on W(110)”, *Physical Review B* **64**, 045414-1-045414-6 (2001).
200. **02BA324:** BALL M., LUCAS C.A., MARKOVIC N.M., MURPHY B.M., STEADMAN P., SCHMIDT T.J., STAMENKOVIC V., ROSS P.N., “X-ray scattering studies of irreversibly adsorbed bismuth on the Pt(111) electrode surface”, *Langmuir* **17**, 5943-5946 (2001).
201. **02CH325:** CHESNEL K., BELAKHOVSKY M., LANDIS S., RODMACQ B., DUDZIK E., COLLINS S.P., DHESI S.S., VAN DER LAAN G., “Magnetic coupling in Co/Pt multilayers studied by soft X-ray resonant magnetic scattering”, *IEEE Transactions on Magnetics* **37**, 1661-1663 (2001).
202. **02LO326:** LORENZO J.E., BOS S., GRENIER S., RENEVIER H., RAVY S., “Comment on “X-ray anomalous scattering study of a charge-ordered state in NaV₂O₅””, *Physical Review Letters* **87**, 189702-1 (2001).
203. **02WE327:** WENDE H., WILHELM F., POULOPOULOS P., ROGALEV A., SCHLAGEL D.L., LOGRASSO T.A., BABERSCHKE K., “Magnetic EXAFS at Gd L-edges: The spin-pair-distribution function of Gd neighbors”, *Journal of Synchrotron Radiation* **8**, 419-421 (2001).
204. **02MA328:** MALACHIAS A., MAGALHÃES-PANIAGO R., NEVES B.R.A., RODRIGUES W.N., MOREIRA M.V.B., PFANNES H.D., DE OLIVEIRA A.G., KYCIA S., METZGER T.H., “Direct observation of the coexistence of coherent and incoherent InAs self-assembled dots by X-ray scattering”, *Applied Physics Letters* **79**, 4342-4344 (2001).
205. **02SC329:** SCOPIGNO T., BALUCANI U., RUOCCO G., SETTE F., “Inelastic X-ray scattering study of the collective dynamics in liquid sodium”, *Physical Review E* **65**, 031205-1-031205-7 (2002).

206. **02RA330:** RAYMOND S., RUEFF J.P., SHAPIRO S.M., WOCHNER P., SETTE F., LEJAY P., “Anomalous lattice properties of the heavy fermion compound CeRu₂Si₂: An X-ray scattering investigation”, *Solid State Communications* **118**, 473-477 (2001).
207. **02MA331:** MATIC A., BÖRJESSON L., MONACO G., ENGBERG D., MASCIOVECCHIO C., “Acoustic modes in the network glass Li₂O–2B₂O₃: New evidence from inelastic X-ray scattering”, *Philosophical Magazine B* **82**, 243-249 (2002).
208. **02PI332:** PILLA O., CAPONI S., FONTANA A., MONTAGNA M., RIGHETTI L., ROSSI F., VILIANI G., RUOCCO G., MONACO G., SETTE F., VERBENI R., CICOGNANI G., DIANOUX A.J., “X-ray and neutron scattering studies in vitreous silica: Acoustic nature of vibrational dynamics in the mesoscopic range”, *Philosophical Magazine B* **82**, 223-232 (2002).
209. **02SH333:** SHUKLA A., ISAACS E.D., HAMANN D.R., PLATZMAN P.M., “Hydrogen bonding in urea”, *Physical Review B* **64**, 052101-1-052101-4 (2001).
210. **02ST334:** STUNAUULT A., DUMESNIL K., DUFOUR C., VETTIER C., BERNHOEFT N., “Incident photon energy dependence of the resonant X-ray magnetic scattering cross section of a samarium film”, *Physical Review B* **65**, 064436-1-064436-12 (2002).
211. **02DE335:** DEVOLDER T., PIZZINI S., VOGEL J., BERNAS H., CHAPPERT C., MATHET V., BOROWSKI M., “X-ray absorption analysis of sputter-grown Co/Pt stackings before and after helium irradiation”, *European Physical Journal B* **22**, 193-201 (2001).
212. **02TA336:** TAYLOR J.W., DUFFY J.A., BEBB A.M., MCCARTHY J.E., LEES M.R., COOPER M.J., TIMMS D.N., “Spin-polarized electron momentum density distributions in the Invar system Fe₃Pt”, *Physical Review B* **65**, 224408-1-224408-8 (2002).
213. **02CA337:** CARPENTIER P., BOESECKE P., BOIS J.M., CHESNE M.L., FANCHON E., KAHN R., STUHRMANN H., VICAT J., “Soft X-ray diffraction up to wavelengths of 6.0 Å becomes feasible at ID1 of ESRF”, *Acta Physica Polonica A* **101**, 603-612 (2002).
214. **02HO338:** HOEKSTRA H., VERMANT J., MEWIS J., NARAYANAN T., “Rheology and structure of suspensions in liquid crystalline hydroxypropylcellulose solutions”, *Langmuir* **18**, 5695-5703 (2002).
215. **02BR339:** BRATOS S., MIRLOUP F., VUILLEUMIER R., WULFF M., “Time-resolved X-ray diffraction: Statistical theory and its application to the photo-physics of molecular iodine”, *Journal of Chemical Physics* **116**, 10615-10625 (2002).
216. **02LE340:** LEMAIRE B.J., PANINE P., GABRIEL J.C.P., DAVIDSON P., “The measurement by SAXS of the nematic order parameter of laponite gels”, *Europhysics Letters* **59**, 55-61 (2002).
217. **02ST341:** STAUB U., PATTERSON B.D., SCHULZE-BRIESE C., FAUTH F., SHI M., SODERHOLM L., VAUGHAN G.B.M., DOORYHEE E., CROSS J.O., OCHIAI A., “Charge order and crystal structure below the first-order “metal–insulator” transition in Yb₄As₃”, *Physica B* **318**, 284-288 (2002).
218. **02FR342:** FRANCESCANGELI O., FERRERO C., LUCCHETTI L., SIMONI F., BURGHAMMER M., “Ordering and director-field configuration in single droplets of liquid crystals probed by X-ray microdiffraction”, *Europhysics Letters* **59**, 218-224 (2002).
219. **02SH343:** SHILO D., LAKIN E., ZOLOTROYABKO E., HÄRTWIG J., BARUCHEL J., “Visualization of acoustic wave fronts in crystals by stroboscopic X-ray topography”, *Synchrotron Radiation News* **15**, 21-26 (2002).
220. **02NE344:** NEWTON M.A., DENT A.J., DIAZ-MORENO S., FIDDY S.G., EVANS J., “Rapid phase fluxionality as the determining factor in activity and selectivity of highly dispersed, Rh/Al₂O₃ in deNO_x catalysis”, *Angewandte Chemie International Edition English* **41**, 2587-2589 (2002).
221. **02FA345:** FARGES F., BROWN JR G.E., PETIT P.E., MUÑOZ M., “Transition elements in water-bearing silicate glasses/melts. Part I. A high-resolution and anharmonic analysis of Ni coordination environments in crystals, glasses, and melts”, *Geochimica et Cosmochimica Acta* **65**, 1665-1678 (2001).
222. **02FA346:** FARGES F., MUÑOZ M., SIEWERT R., MALAVERGNE V., BROWN JR G.E., BEHRENS H., NOWAK M., PETIT P.E., “Transition elements in water-bearing silicate glasses/melts. Part II. Ni in water-bearing glasses”, *Geochimica et Cosmochimica Acta* **65**, 1679-1693 (2001).
223. **02CA347:** CANTON P., MENEGHINI C., RIELLO P., BALERNA A., BENEDETTI A., “Thermal evolution of carbon-supported Pd nanoparticles studied by time-resolved X-ray diffraction”, *Journal of Physical Chemistry B* **105**, 8088-8091 (2001).

224. **02RU348:** RUPPRECHT K., FRIEDMANN T., GIEFERS H., WORTMANN G., DOYLE B., ZUKROWSKI J., “High-pressure / high-temperature NFS study of magnetism in LuFe_2 and ScFe_2 ”, *High Pressure Research* **22**, 189-194 (2002).
225. **02VA349:** VALLINO F., CHATEAU J.P., JACQUES A., GEORGE A., “Dislocation multiplication during the very first stages of plastic deformation in silicon observed by X-ray topography”, *Materials Science and Engineering A* **319-321**, 152-155 (2001).
226. **02MC352:** MCMORROW D.F., MCEWEN K.A., STEIGENBERGER U., RØNNOW H.M., YAKHOV F., “X-ray resonant scattering study of the quadrupolar order in UPd_3 ”, *Physical Review Letters* **87**, 057201-1-057201-4 (2001).
227. **02ST353:** STIERLE A., RENNER F., STREITEL R., DOSCH H., “Observation of bulk forbidden defects during the oxidation of $\text{NiAl}(110)$ ”, *Physical Review B* **64**, 165413-1-165413-4 (2001).
228. **02FA354:** FAIRCLOUGH J.P.A., MAI S.M., MATSEN M.W., BRAS W., MESSE L., TURNER S.C., GLEESON A.J., BOOTH C., HAMLEY I.W., RYAN A.J., “Crystallization in block copolymer melts: Small soft structures that template larger hard structures”, *Journal of Chemical Physics* **114**, 5425-5431 (2001).
229. **02KN355:** KNAAPILA M., RUOKOLAINEN J., TORKKELI M., SERIMAA R., HORSBURGH L., MONKMAN A.P., BRAS W., TEN BRINKE G., IKKALA O., “Self-organized supramolecules of poly(2,5-pyridinediyl)”, *Synthetic Metals* **121**, 1257-1258 (2001).
230. **02HA357:** HANFLAND M., LOA I., SYASSEN K., “Sodium under pressure: Bcc to fcc structural transition and pressure-volume relation to 100 GPa”, *Physical Review B* **65**, 184109-1-184109-8 (2002).
231. **02BE358:** BENFATTO M., FELICI R., FORMOSO V., “Multiple scattering approach to DAFS”, *Journal of Synchrotron Radiation* **8**, 396-397 (2001).
232. **02SC359:** SCHROER C.G., MEYER J., KUHLMANN M., BENNER B., GÜNZLER T.F., LENGELER B., RAU C., WEITKAMP T., SNIGIREV A., SNIGIREVA I., “Nanotomography based on hard X-ray microscopy with refractive lenses”, *Applied Physics Letters* **81**, 1527-1529 (2002).
233. **02DA360:** D'ALMEIDA T., DI MICHIEL M., KAISER M., BUSLAPS T., FANGET A., “Time-resolved X-ray diffraction measurements on CdS shocked along the *c* axis”, *Journal of Applied Physics* **92**, 1715-1717 (2002).
234. **02KN361:** KNAAPILA M., IKKALA O., TORKKELI M., JOKELA K., SERIMAA R., DOLBANYA I.P., BRAS W., TEN BRINKE G., HORSBURGH L.E., PÁLSSON L.O., MONKMAN A.P., “Polarized luminescence from self-assembled, aligned, and cleaved supramolecules of highly ordered rodlike polymers”, *Applied Physics Letters* **81**, 1489-1491 (2002).
235. **02PA362:** PAOLASINI L., DI MATTEO S., VETTIER C., DE BERGEVIN F., SOLLIER A., NEUBECK W., YAKHOV F., METCALF P.A., HONIG J.M., “Interplay between orbital and magnetic long range order by resonant X-ray scattering in $(\text{V}_{1-x}\text{Cr}_x)_2\text{O}_3$ ”, *Journal of Electron Spectroscopy and Related Phenomena* **120**, 1-10 (2001).
236. **02AL363:** ALTIN D., HÄRTWIG J., KÖHLER R., LUDWIG W., OHLER M., KLEIN H., “X-ray diffraction topography using a diffractometer with a bendable monochromator at a synchrotron radiation source”, *Journal of Synchrotron Radiation* **9**, 282-286 (2002).
237. **02NO364:** NORBY P., DINNEBIER R., FITCH A.N., “Decomposition of silver carbonate; the crystal structure of two high-temperature modifications of Ag_2CO_3 ”, *Inorganic Chemistry* **41**, 3628-3637 (2002).
238. **02BR365:** BRUNELLI M., FITCH A.N., “Crystal structures of hydrofluorocarbons from powder X-ray diffraction data: HFC-134a and HFC-152a”, *Zeitschrift für Kristallographie* **217**, 395-400 (2002).
239. **02PR366:** PRUZAN P., GOURDAIN D., CHERVIN J.C., CANNY B., COUZINET B., HANFLAND M., “Equation of state of BaTiO_3 and KNbO_3 at room temperature up to 30 GPa”, *Solid State Communications* **123**, 21-26 (2002).
240. **02LO367:** LORIDANT S., LUCAZEAU G., LE BIHAN T., “A high-pressure Raman and X-ray diffraction study of the perovskite SrCeO_3 ”, *Journal of Physics and Chemistry of Solids* **63**, 1983-1992 (2002).
241. **02BI368:** BIRCK C., MALFOIS M., SVERGUN D., SAMAMA J.P., “Insights into signal transduction revealed by the low resolution structure of the FixJ response regulator”, *Journal of Molecular Biology* **321**, 447-457 (2002).
242. **02GA369:** GARCIA-GUTIERREZ M.C., KARGER-KOCSIS J., RIEKEL C., “Cold drawing-induced mesophase in amorphous poly(ethylene naphthalate) revealed by X-ray microdiffraction”, *Macromolecules* **35**, 7320-7325 (2002).
243. **02BA370:** BABKEVICH A.Y., COWLEY R.A., MASON N.J., SANDIFORD S., STUNAUULT A., “X-ray scattering from epitaxial GaSb/InAs thin films below and above the critical thickness”, *Journal of Physics Condensed Matter* **14**, 7101-7121 (2002).

244. **02KO372:** KOSONEN H., RUOKOLAINEN J., KNAAPILA M., TORKKELI M., SERIMAA R., BRAS W., MONKMAN A.P., TEN BRINKE G., IKKALA O., “Self-organized supermolecules based on conducting polyaniline and hydrogen bonded amphiphiles”, *Synthetic Metals* **121**, 1277-1278 (2001).
245. **02RO374:** ROGALEV A., GOULON J., “Cross luminescence of CsF excited by X-ray synchrotron radiation”, *Radiation Effects and Defects in Solids* **154**, 301-306 (2001).
246. **02RO375:** ROGALEV A., GOULON J., “Magnetic circularly polarized X-ray excited optical luminescence (MCP-XEOL)”, *Radiation Effects and Defects in Solids* **154**, 377-381 (2001).
247. **02RO379:** ROZENBERG G.K., PASTERNAK M.P., DUBROVINSKY L.S., XU W.M., LE BIHAN T., “Structural aspects of Mott transition in FeI₂ compound under high pressure”, *High Pressure Research* **22**, 381-384 (2002).
248. **02DU380:** DUBROVINSKY L.S., DUBROVINSKAIA N.A., PROKOPENKO V.B., LE BIHAN T., “Equation of state and crystal structure of NaAlSiO₄ with calcium-ferrite type structure in the conditions of the lower mantle”, *High Pressure Research* **22**, 495-499 (2002).
249. **02PA381:** PASCARELLI S., AQUILANTI G., CRICHTON W., LE BIHAN T., DE PANFILIS S., FABIANI E., MEZOUAR M., ITIE J.P., POLIAN A., “High pressure X-ray absorption and diffraction study of InAs”, *High Pressure Research* **22**, 331-335 (2002).
250. **02TA382:** TALYZIN A.V., DUBROVINSKY L.S., LE BIHAN T., JANSSON U., “Pressure-induced polymerization of C₆₀ at high temperatures: An *in situ* Raman study”, *Physical Review B* **65**, 245413-1-245413-10 (2002).
251. **02TA383:** TALYZIN A.V., DUBROVINSKY L.S., LE BIHAN T., JANSSON U., “*In situ* Raman study of C₆₀ polymerization at high pressure high temperature conditions”, *Journal of Chemical Physics* **116**, 2166-2174 (2002).
252. **02LE384:** LEVY D., MENEGHINI C., “High-pressure studies of La_{0.25}Ca_{0.75}MnO₃ using X-ray diffraction at the ESRF synchrotron”, *Materials Science Forum* **378-381**, 534-538 (2001).
253. **02BE386:** BERTONCINI P., WETZEL P., BERLING D., MEHDAOUI A., LOEGEL B., PERUCHETTI J.C., GEWINNER G., PIERRON-BOHNES V., BERAR J.F., RENEVIER H., “Strain determination in ultrathin bcc Fe layers on Si(001) by X-ray diffraction”, *Physical Review B* **65**, 155425-1-155425-6 (2002).
254. **02BI387:** BIINO C., CLEMENT M., DOBLE N., ELSENER K., FREUND A., GATIGNON L., GRAFSTRÖM P., HERR W., TARATIN A., UGGERHØJ U.I., UZHINSKII V.V., VELASCO M., “On the reduced interaction probability for fully stripped 33 TeV/c Pb ions channeled in a bent Si crystal”, *Nuclear Instruments and Methods in Physics Research B* **194**, 417-424 (2002).
255. **02MU388:** MUÑOZ-PAEZ A., PERUCHENA J.I.F., ESPINOS J.P., JUSTO A., CASTAÑEDA F., DIAZ-MORENO S., BOWRON D.T., “Experimental evidences of new nitrogen-containing phases in nitrided steels”, *Chemistry of Materials* **14**, 3220-3222 (2002).
256. **02MI389:** MILITA S., LE TIEC Y., PERNOT E., DI CIOCCIO L., HÄRTWIG J., BARUCHEL J., SERVIDORI M., LETERTRE F., “X-ray diffraction imaging investigation of silicon carbide on insulator structures”, *Applied Physics A* **75**, 621-627 (2002).
257. **02RA390:** RABOUD P.A., BERSET M., DOUSSE J.C., MAILLARD Y.P., MAURON O., HOSZOWSKA J., POLASIK M., RZADKIEWICZ J., “Energy-dependent *KL* double photoexcitation of argon”, *Physical Review A* **65**, 062503-1-062503-8 (2002).
258. **02GR391:** GRENET T., GIROUD F., LOUBET K., BERGMAN A., SAFRAN G., LABAR J., BARNA P., JOULAUD J.L., CAPITAN M., “Fabrication and transport properties of thin films of quasicrystals”, *Journal of Alloys and Compounds* **342**, 2-6 (2002).
259. **02GR392:** GRZECHNIK A., BOUVIER P., MEZOUAR M., MATHEWS M.D., TYAGI A.K., KÖHLER J., “Hexagonal Na_{1.5}Y_{1.5}F₆ at high pressures”, *Journal of Solid State Chemistry* **165**, 159-164 (2002).
260. **02TU393:** TUOMINEN M., ELLISON A., TUOMI T., YAKIMOVA R., MILITA S., JANZEN E., “Nature and occurrence of defects in 6H-SiC Lely crystals”, *Journal of Crystal Growth* **225**, 23-33 (2001).
261. **02AN394:** ANTOINE C., NYGÅRD P., GREGERSEN O.W., HOLMSTAD R., WEITKAMP T., RAU C., “3D images of paper obtained by phase-contrast X-ray microtomography: Image quality and binarisation”, *Nuclear Instruments and Methods in Physics Research A* **490**, 392-402 (2002).
262. **02BA395:** BALLONE P., QUARTIERI S., SANI A., VEZZALINI G., “High-pressure deformation mechanism in scolecite: A combined computational-experimental study”, *American Mineralogist* **87**, 1194-1206 (2002).
263. **02QU396:** QUARTIERI S., TRISCARI M., SABATINO G., BOSCHERINI F., SANI A., “Fe and Mn K-edge XANES study of ancient Roman glasses”, *European Journal of Mineralogy* **14**, 749-756 (2002).

264. **02DU397:** DUVAL E., SAVIOT L., MERMET A., DAVID L., ETIENNE S., BERSHTEIN V., DIANOUX A.J., “Inelastic light, neutron, and X-ray scattering related to the heterogeneous elasticity of glasses”, *Journal of Non-Crystalline Solids* **307-310**, 103-108 (2002).
265. **02CA398:** CAPONI S., FERRARI M., FONTANA A., MASCIOVECCHIO C., MERMET A., MONTAGNA M., ROSSI F., RUOCCO G., SETTE F., “X-ray diffraction and Raman scattering measurements on silica xerogels”, *Journal of Non-Crystalline Solids* **307-310**, 135-141 (2002).
266. **02FI399:** FIORETTO D., MATTARELLI M., MASCIOVECCHIO C., MONACO G., RUOCCO G., SETTE F., “Cusp-like temperature behavior of the nonergodicity factor in polybutadiene revealed by a joint light and X-ray Brillouin scattering investigation”, *Physical Review B* **65**, 224205-1-224205-5 (2002).
267. **02ME400:** DANIEL I., CARDON H., FIQUET G., GUYOT F., MEZOUAR M., “Equation of state of Al-bearing perovskite to lower mantle pressure conditions”, *Geophysical Research Letters* **28**, 3789-3792 (2001).
268. **02BO402:** BONNIN-MOSBAH M., SIMIONOVICI A.S., METRICH N., DURAUD J.P., MASSARE D., DILLMANN P., “Iron oxidation states in silicate glass fragments and glass inclusions with a XANES micro-probe”, *Journal of Non-Crystalline Solids* **288**, 103-113 (2001).
269. **02AR403:** ARIS S., MARTINS R.V., WEGENER J., HONKIMÄKI V., PYZALLA A., “Texture and crystallite microstrain development during tensile deformation of copper – simulation and comparison to experimental results”, *Journal de Physique* **11**, Pr4-61-Pr4-68 (2001).
270. **02OR404:** ORGEL J.P.R.O., MILLER A., IRVING T.C., FISCHETTI R.F., HAMMERSLEY A.P., WESS T.J., “The in situ supermolecular structure of type I collagen”, *Structure* **9**, 1061-1069 (2001).
271. **02GU405:** GUILLEMOT C., BUDAU P., CHEVRIER J., MARCHI F., COMIN F., ALANDI C., BERTIN F., BUFFET N., WYON C., MUR P., “Imaging of stored charges in Si quantum dots by tapping and electrostatic force microscopy”, *Europhysics Letters* **59**, 566-571 (2002).
272. **02SF407:** SFERRAZZA M., CRAWSHAW J., DONALD A.M., NARAYANAN T., “Evidence of highly localized failure within core-shell toughening particles from in-situ small-angle scattering”, *Macromolecules* **34**, 6708-6718 (2001).
273. **02GO408:** GOURRIER A., GARCIA-GUTIERREZ M.C., RIEKEL C., “Combined microindentation and synchrotron radiation microdiffraction applied to polymers”, *Macromolecules* **35**, 8072-8077 (2002).
274. **02MO409:** MOSSA S., MONACO G., RUOCCO G., “Vibrational origin of the fast relaxation processes in molecular glass formers”, *Europhysics Letters* **60**, 92-98 (2002).
275. **02SU411:** SUORTTI P., BUSLAPS T., HONKIMÄKI V., KRETZSCHMER M., RENIER M., SHUKLA A., “Monochromators for high-energy synchrotron radiation”, *Zeitschrift für Physikalische Chemie* **215**, 1419-1435 (2001).
276. **02KR412:** KREPLAK L., MERIGOUX C., BRIKI F., FLOT D., DOUCET J., “Investigation of human hair cuticle structure by microdiffraction: Direct observation of cell membrane complex swelling”, *Biochimica et Biophysica Acta* **1547**, 268-274 (2001).
277. **02FE413:** FERDEGHINI C., FERRANDO V., GRASSANO G., RAMADAN W., BELLINGERI E., BRACCINI V., MARRE D., MANFRINETTI P., PALENZONA A., BORGATTI F., FELICI R., LEE T.L., “Growth of *c*-oriented MgB₂ thin films by pulsed laser deposition: Structural characterization and electronic anisotropy”, *Superconductor Science and Technology* **14**, 952-957 (2001).
278. **02SQ414:** SQUIRES A.M., TEMPLER R.H., SEDDON J.M., WOENCKHAUS J., WINTER R., FINET S., THEYENCHERI N., “Kinetics and mechanism of the lamellar to gyroid inverse bicontinuous cubic phase transition”, *Langmuir* **18**, 7384-7392 (2002).
279. **02MO415:** MO F., MATHIESEN R.H., ALZARI P.M., LESCAR J., RASMUSSEN B., “Physical estimation of triplet phases from two new proteins”, *Acta Crystallographica D* **58**, 1780-1786 (2002).
280. **02CH416:** CHAFFAI S., PEYRIN F., NUZZO S., PORCHER R., BERGER G., LAUGIER P., “Ultrasonic characterization of human cancellous bone using transmission and backscatter measurements: Relationships to density and microstructure”, *Bone* **30**, 229-237 (2002).
281. **02WE418:** WEBSTER P.J., HUGHES D.J., MILLS G., VAUGHAN G.B.M., “Synchrotron X-ray measurements of residual stress in a worn railway rail”, *Materials Science Forum* **404-407**, 767-772 (2002).
282. **02WE419:** WEBSTER P.J., OOSTERKAMP L.D., BROWNE P.A., HUGUES D.J., KANG W.P., WITHERS P.J., VAUGHAN G.B.M., “Synchrotron X-ray residual strain scanning of a friction stir weld”, *Journal of Strain Analysis* **36**, 61-70 (2001).

283. **02BO421:** BOUSSET L., BELRHALI H., JANIN J., MELKI R., MORERA S., “Structure of the globular region of the prion protein Ure2 from the yeast *Saccharomyces cerevisiae*”, *Structure* **9**, 39-46 (2001).
284. **02YA422:** YAVARI A.R., INOUE A., ZHANG T., BOTTA W.J., KVICK Å., “Metastable phases, quasicrystals and solid solutions in Zr-based bulk glass-forming alloys”, *Scripta Materialia* **44**, 1239-1244 (2001).
285. **02BO423:** BOEGLIN C., STANESCU S., DEVILLE J.P., OHRESSER P., BROOKES N.B., “In-plane magnetocrystalline anisotropy observed on Fe/Cu(111) nanostructures grown on stepped surfaces”, *Physical Review B* **66**, 014439-1-014439-6 (2002).
286. **02CH424:** CHESNEL K., BELAKHOVSKY M., LANDIS S., TOUSSAINT J.C., COLLINS S.P., VAN DER LAAN G., DUDZIK E., DHESI S.S., “X-ray resonant magnetic scattering study of the magnetic coupling in Co/Pt nanolines and its evolution under magnetic field”, *Physical Review B* **66**, 024435-1-024435-9 (2002).
287. **02FO425:** FORET M., VACHER R., COURTENS E., MONACO G., “Merging of the acoustic branch with the boson peak in densified silica glass”, *Physical Review B* **66**, 024204-1-024204-6 (2002).
288. **02KA426:** KAGANER V.M., JENICHEN B., PARIS G., PLOOG K.H., KONOVALOV O., MIKULIK P., ARAI S., “Strain in buried quantum wires: Analytical calculations and X-ray diffraction study”, *Physical Review B* **66**, 035310-1-035310-7 (2002).
289. **02MA427:** MARGADONNA S., PRASSIDES K., ARVANITIDIS I., PISSAS M., PAPAVALASSILOU G., FITCH A.N., “Crystal structure of the $Mg_{1-x}Al_xB_2$ superconductors near $x \approx 0.5$ ”, *Physical Review B* **66**, 014518-1-014518-5 (2002).
290. **02RE428:** RENY E., SAN MIGUEL A., GUYOT Y., MASENELLI B., MELINON P., SAVIOT L., YAMANAKA S., CHAMPAGNON B., CROS C., POUCHARD M., BOROWSKI M., DIANOUX A.J., “Vibrational modes in silicon clathrate compounds: A key to understanding superconductivity”, *Physical Review B* **66**, 014532-1-014532-7 (2002).
291. **02KR429:** KRISCH M., LOUBEYRE P., RUOCCO G., SETTE F., CUNSOLO A., D'ASTUTO M., LE TOULLEC R., LORENZEN M., MERMET A., MONACO G., VERBENI R., “Pressure evolution of the high-frequency sound velocity in liquid water”, *Physical Review Letters* **89**, 125502-1-125502-4 (2002).
292. **02BR430:** BRAS W., AMENITSCH H., EGELHAAF S.U., “Time-resolved small angle scattering in soft condensed matter and biological systems”, *Synchrotron Radiation News* **15**, 27-31 (2002).
293. **02GR431:** GRÜBEL G., VOGL G., “Probing diffusion in the time-domain”, *Synchrotron Radiation News* **15**, 14-17 (2002).
294. **02TE432:** TERRY A.E., VAUGHAN G.B.M., KVICK Å., WALTON R.I., NORQUIST A.J., O'HARE D., “*In-situ* time-resolved X-ray diffraction: The current state of the art”, *Synchrotron Radiation News* **15**, 4-13 (2002).
295. **02PL433:** PLECH A., RANDLER R., GEIS A., WULFF M., “Diffuse scattering from liquid solutions with white-beam undulator radiation for photoexcitation studies”, *Journal of Synchrotron Radiation* **9**, 287-292 (2002).
296. **02HA434:** HAUMANN M., POSPIŠIL P., GRABOLLE M., MÜLLER C., LIEBISCH P., SOLE V.A., NEISIUS T., DITTMER J., LUZZOLINO L., DAU H., “First steps towards time-resolved BioXAS at room temperature: State transitions of the manganese complex of oxygenic photosynthesis”, *Journal of Synchrotron Radiation* **9**, 304-308 (2002).
297. **02FD435:** FDEZ-GUBIEDA M.L., GARCIA-PRIETO A., GARCIA-ARRIBAS A., MENEGHINI C., MOBILIO S., “Direct experimental evidence of an anomalous Co segregation in Co-Cu granular alloys and its influence on magnetoresistance”, *Europhysics Letters* **59**, 855-861 (2002).
298. **02HO436:** HOLLAND-MORITZ D., SCHENK T., BELLISSENT R., SIMONET V., FUNAKOSHI K., MERINO J.M., BUSLAPS T., REUTZEL S., “Short-range order in undercooled Co melts”, *Journal of Non-Crystalline Solids* **312-314**, 47-51 (2002).
299. **02FE437:** FERDEGHINI C., FERRANDO V., GRASSANO G., RAMADAN W., BELLINGERI E., BRACCINI V., MARRE D., PUTTI M., MANFRINETTI P., PALENZONA A., BORGATTI F., FELICI R., ARUTA C., “Anisotropy in *c*-oriented MgB_2 thin films grown by pulsed laser deposition”, *Physica C* **378-381**, 56-60 (2002).
300. **02ST438:** ŠTEPANEK P., NALLET F., DIAT O., ALMDAL K., PANINE P., “Undulation properties of the lamellar phase of a diblock copolymer: SAXS experiments”, *Macromolecules* **35**, 7287-7292 (2002).
301. **02CE439:** ČERNÝ R., FAVRE-NICOLIN V., BERTHEVILLE B., “A tetragonal polymorph of caesium hydroxide monohydrate, $CsOH \cdot H_2O$, from X-ray powder data”, *Acta Crystallographica C* **58**, i31-i32 (2002).

302. **02RO440:** ROCH T., HOLY V., HESSE A., STANGL J., FROMHERZ T., BAUER G., METZGER T.H., FERRER S., “Strain in buried self-assembled SiGe wires studied by grazing-incidence X-ray diffraction”, *Physical Review B* **65**, 245324-1-245324-11 (2002).
303. **02GH441:** GHIRINGHELLI G., TJENG L.H., TANAKA A., TJERNBERG O., MIZOKAWA T., DE BOER J.L., BROOKES N.B., “3d spin-orbit photoemission spectrum of nonferromagnetic materials: The test cases of CoO and Cu”, *Physical Review B* **66**, 075101-1-075101-7 (2002).
304. **02RA442:** RATHGEBER S., MONKENBUSCH M., KREITSCHMANN M., URBAN V., BRULET A., “Dynamics of star-burst dendrimers in solution in relation to their structural properties”, *Journal of Chemical Physics* **117**, 4047-4062 (2002).
305. **02RE443:** REEDIJK M.F., ARSIC J., DE THEIJE F.K., MCBRIDE M.T., PETERS K.F., VLIEG E., “Structure of liquid Sn on Ge(111)”, *Physical Review B* **64**, 033403-1-033403-4 (2001).
306. **02DA444:** DANNEAU R., AYARI A., RIDEAU D., REQUARDT H., LORENZO J.E., ORTEGA L., MONCEAU P., CURRAT R., GRÜBEL G., “Motional ordering of a charge-density wave in the sliding state”, *Physical Review Letters* **89**, 106404-1-106404-4 (2002).
307. **02KA446:** KAISERMAYR M., SEPIOL B., THIESS H., VOGL G., ALP E.E., STURHAHN W., “Time-domain interferometry using synchrotron radiation applied to diffusion in ordered alloys”, *European Physical Journal B* **20**, 335-341 (2001).
308. **02LE447:** LE PARC R., CHAMPAGNON B., DAVID L., FAIVRE A., LEVELUT C., GUENOT P., HAZEMANN J.L., ROCHAS C., SIMON J.P., “Temperature dependence of the density fluctuations of silica by small-angle X-ray scattering”, *Philosophical Magazine B* **82**, 431-438 (2002).
309. **02SA448:** SANI A., HANFLAND M., LEVY D., “Pressure and temperature dependence of the ferroelectric-paraelectric phase transition in PbTiO_3 ”, *Journal of Solid State Chemistry* **167**, 446-452 (2002).
310. **02BA450:** BATTAGLIN G., CATTARUZZA E., GONELLA F., D'ACAPITO F., DE JULIAN FERNANDEZ C., MATTEI G., MAURIZIO C., MAZZOLDI P., SADA C., “Metal-alloy nanocluster formation in silica glass by sequential ion implantation”, *Materials Research Society Symposium Proceedings* **647**, 011.18.1-011.18.5 (2001).
311. **02LU451:** LUEBBERT D., ARTHUR J., SZTUCKI M., METZGER T.H., GRIFFIN P.B., PATEL J.R., “X-ray diffuse scattering study of the kinetics of stacking fault growth and annihilation in boron-implanted silicon”, *Applied Physics Letters* **81**, 3167-3169 (2002).
312. **02DA452:** DAVID C., NÖHAMMER B., SOLAK H.H., ZIEGLER E., “Differential X-ray phase contrast imaging using a shearing interferometer”, *Applied Physics Letters* **81**, 3287-3289 (2002).
313. **02SA453:** SAALFRANK R.W., BERNT I., CHOWDHRY M.M., HAMPEL F., VAUGHAN G.B.M., “Ligand-to-metal ratio controlled assembly of tetra- and hexanuclear clusters towards single-molecule magnets”, *Chemistry - A European Journal* **7**, 2765-2769 (2001).
314. **02SA454:** SAALFRANK R.W., GLASER H., DEMLEITNER B., HAMPEL F., CHOWDHRY M.M., SCHÜNEMANN V., TRAUTWEIN A.X., VAUGHAN G.B.M., YEH R., DAVIS A.V., RAYMOND K.N., “Self-assembly of tetrahedral and trigonal antiprismatic clusters $[\text{Fe}_4(\text{L}^4)_4]$ and $[\text{Fe}_6(\text{L}^5)_6]$ on the basis of trigonal tris-bidentate chelators”, *Chemistry - A European Journal* **8**, 493-497 (2002).
315. **02PA455:** PASQUINI L., BARLA A., CHUMAKOV A.I., LEUPOLD O., RÜFFER R., DERIU A., BONETTI E., “Size and oxidation effects on the vibrational properties of nanocrystalline α -Fe”, *Physical Review B* **66**, 073410-1-073410-4 (2002).
316. **02HU456:** HUOTARI S., HÄMÄLÄINEN K., MANNINEN S., STERNEMANN C., KAPROLAT A., SCHÜLKE W., BUSLAPS T., “High-momentum components and temperature dependence of the Compton profile of beryllium”, *Physical Review B* **66**, 085104-1-085104-8 (2002).
317. **02PA457:** PANINE P., NARAYANAN T., VERMANT J., MEWIS J., “Structure and rheology during shear-induced crystallization of a latex suspension”, *Physical Review E* **66**, 022401-1-022401-4 (2002).
318. **02CA458:** CAO L.X., KREMER R.K., QIN Y.L., BRÖTZ J., LIU J.S., ZEGENHAGEN J., “Stress change in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ close to the superconducting transition”, *Physical Review B* **66**, 054511-1-054511-7 (2002).
319. **02TH459:** THIESS S., LEE T.L., LIN C.T., CAO L.X., ARUTA C., WARREN S., COWIE B.C.C., ZEGENHAGEN J., “X-ray standing wave photoemission study of a $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystal”, *Physica Status Solidi (b)* **233**, R5-R7 (2002).

320. **02PA460:** PAIXÃO J.A., DETLEFS C., LONGFIELD M.J., CACIUFFO R., SANTINI P., BERNHOEFT N., REBIZANT J., LANDER G.H. – Triple- \vec{q} octopolar ordering in NpO_2 , *Physical Review Letters* **89**, 187202-1-187202-4 (2002).
321. **02FO462:** FOURME R., ASCONE I., KAHN R., MEZOUAR M., BOUVIER P., GIRARD E., LIN T., JOHNSON J.E., “Opening the high-pressure domain beyond 2 kbar to protein and virus crystallography - Technical Advance”, *Structure* **10**, 1409-1414 (2002).
322. **02AR463:** ARZEL L., HEHLEN B., TAGANTSEV A.K., DENOYER F., LISS K.D., CURRAT R., COURTENS E., “Low-T ferroelectricity in antiphase domain boundaries of SrTiO_3 ”, *Ferroelectrics* **267**, 317-322 (2002).
323. **02DA464:** D'ACAPITO F., CASTRUCCI P., PINTO N., GUNNELLA R., DE CRESCENZI M., DAVOLI I., “The effect of Sb surfactant on the growth of $(\text{Ge}_n\text{Si}_m)_p$ layers on $\text{Si}(0\ 0\ 1)$: A reflEXAFS study”, *Surface Science* **518**, 183-191 (2002).
324. **02RE466:** RESSLER T., WIENOLD J., JENTOFT R.E., NEISIUS T., GÜNTNER M.M., “Kinetics of solid-state reactions in heterogeneous catalysis from time-resolved X-ray absorption spectroscopy”, *Topics in Catalysis* **18**, 45-52 (2002).
325. **02LA467:** LAMBERTI C., PRESTIPINO C., CAPELLO L., BORDIGA S., ZECCHINA A., SPOTO G., DIAZ-MORENO S., MARSELLA A., CREMASCHI B., GARILLI M., VIDOTTO S., LEFANTO G., “The $\text{CuCl}_2/\text{Al}_2\text{O}_3$ catalyst investigated in interaction with reagents”, *International Journal of Molecular Sciences* **2**, 230-245 (2001).
326. **02MA469:** MARTEL L., JOHNSON C., BOUTET S., AL-KURDI R., KONOVALOV O., ROBINSON I., LECKBAND D., LEGRAND J.F., “X-ray reflectivity investigations of two-dimensional assemblies of C-cadherins: First steps in structural and functional studies”, *Journal de Physique IV* **12**, Pr6-365-Pr6-377 (2002).
327. **02BE470:** BERTRAND L., CHEVALLIER P., DOUCET J., SIMIONOVICI A., TSOUCARIS G., WALTER P., “Apport du rayonnement synchrotron à l'étude de cheveux archéologiques”, *Journal de Physique IV* **12**, Pr6-237-Pr6-243 (2002).
328. **02CH471:** CHAFFAÏ S., ROBERJOT V., PEYRIN F., BERGER G., LAUGIER P., “Variation en fréquence du coefficient de rétrodiffusion ultrasonore de l'os trabéculaire: Modélisation théorique et résultats expérimentaux”, *ITBM-RBM* **22**, 216-226 (2001).
329. **02PE472:** PEYRIN F., “Point sur les perspectives technologiques d'analyse de la microarchitecture osseuse”, *ITBM-RBM* **22**, 5-14 (2001).
330. **02TU473:** TUTTI F., DUBROVINSKY L.S., SAXENA S.K., “Stability of KAlSi_3O_8 hollandite-type structure in the Earth's lower mantle conditions”, *Geophysical Research Letters* **28**, 2735-2738 (2001).
331. **02MA476:** MAURIN I., MARGADONNA S., PRASSIDES K., TAKENOBU T., IWASA Y., FITCH A.N., “Carbon miscibility in the boron layers of the MgB_2 superconductor”, *Chemistry of Materials* **14**, 3894-3897 (2002).
332. **02HA477:** HANFLAND M., “Lithium feels the pressure to become a superconductor”, *Physics World*, 19-20 (2002).
333. **02MA478:** MATHIESEN R.H., ARNBERG L., RAMSØSKAR K., WEITKAMP T., RAU C., SNIGIREV A., “Time-resolved X-ray imaging of aluminum alloy solidification processes”, *Metallurgical and Materials Transactions B* **33**, 613-623 (2002).
334. **02CU479:** CUNSOLO A., PRATESI G., COLOGNESI D., VERBENI R., SAMPOLI M., SETTE F., RUOCCO G., SENESI R., KRISCH M.H., NARDONE M., “Microscopic structure in liquid hydrogen and deuterium: An X-ray scattering study”, *Journal of Low Temperature Physics* **129**, 117-131 (2002).
335. **02ZH480:** ZHONG Z., CHAPMAN D., CONNOR D., DILMANIAN A., GMÜR N., HASNAH M., JOHNSTON R.E., KISS M.Z., LI J., MUEHLEMAN C., OLTULU O., PARHAM C., PISANO E., RIGON L., SAYERS D., THOMLINSON W., YAFFE M., ZHONG H., “Diffraction enhanced imaging of soft tissues”, *Synchrotron Radiation News* **15**, 27-34 (2002).
336. **02LO481:** LONGFIELD M.J., PAIXÃO J.A., BERNHOEFT N., LANDER G.H., WASTIN F., REBIZANT J., “Synchrotron radiation study of neptunium phosphide”, *Physical Review B* **66**, 134421-1-134421-10 (2002).
337. **02JA482:** JAOUEN N., TONNERRE J.M., RAOUX D., BONTEMPI E., ORTEGA L., MÜENZENBERG M., FELSCH W., ROGALEV A., DÜRR H.A., DUDZIK E., VAN DER LAAN G., MARUYAMA H., SUZUKI M., “Ce 5d magnetic profile in Fe/Ce multilayers for the α and γ -like Ce phases by X-ray resonant magnetic scattering”, *Physical Review B* **66**, 134420-1-134420-14 (2002).
338. **02KU483:** KUČERA M., KUNEŠ J., KOLOMIETS A., DIVIŠ M., ANDREEV A.V., SECHOVSKY V., KAPPLER J.P., ROGALEV A., “X-ray magnetic circular dichroism studies of 5f magnetism in UCoAl and UPtAl ”, *Physical Review B* **66**, 144405-1-144405-10 (2002).

339. **02SC484:** SCOPIGNO T., FILIPPONI A., KRISCH M., MONACO G., RUOCCO G., SETTE F., “High-frequency acoustic modes in liquid gallium at the melting point”, *Physical Review Letters* **89**, 255506-1-255506-4 (2002).
340. **02QI485:** QIAN J., SKYLLBERG U., FRECH W., BLEAM W.F., BLOOM P.R., PETIT P.E., “Bonding of methyl mercury to reduced sulfur groups in soil and stream organic matter as determined by X-ray absorption spectroscopy and binding affinity studies”, *Geochimica et Cosmochimica Acta* **66**, 3873-3885 (2002).
341. **02BA486:** BABKEVICH A.Y., COWLEY R.A., MASON N.J., WELLER S., STUNAUULT A., “X-ray scattering from dislocation arrays in GaSb”, *Journal of Physics Condensed Matter* **14**, 13505-13528 (2002).
342. **02RE487:** REQUARDT H., LORENZO J.E., DANNEAU R., CURRAT R., MONCEAU P., “Studies of the dynamics in charge-density-wave systems using inelastic X-ray scattering with meV-energy-resolution”, *Journal de Physique IV* **12**, Pr9-39-Pr9-42 (2002).
343. **02AN488:** ANDRES D., KARTSOVNIK M.V., BIBERACHER W., NEUMAIER K., MÜLLER H., “Direct evidence for superconductivity in the organic charge density wave compound α -(BEDT-TTF)₂KHg(SCN)₄ under hydrostatic pressure”, *Journal de Physique IV* **12**, Pr9-87-Pr9-88 (2002).
344. **02DA489:** DANNEAU R., AYARI A., RIDEAU D., REQUARDT H., LORENZO J.E., ORTEGA L., MONCEAU P., CURRAT R., GRÜBEL G., “Increase of the charge density wave phase coherence in the sliding and the mode-locked state”, *Journal de Physique IV* **12**, Pr9-177-Pr9-178 (2002).
345. **02RE490:** REQUARDT H., RIDEAU D., DANNEAU R., AYARI A., NAD F.Y., LORENZO J.E., MONCEAU P., CURRAT R., DETLEFS C., SMILGIES D., GRÜBEL G., “X-ray diffraction study of the transient structure of sliding charge density waves in NbSe₃”, *Journal de Physique IV* **12**, Pr9-181-Pr9-182 (2002).
346. **02LE491:** LEMEE-CAILLEAU M.H., COLLET E., BURON M., CAILLEAU H., WULFF M., TECHERT S., “Photo-induced ferroelectric order evidence by picosecond X-ray diffraction”, *Journal de Physique IV* **12**, Pr9-183 (2002).
347. **02LE492:** LE BOLLOCH D., RAVY S., SENZIER P., PASQUIER C., DETLEFS C., “Deformation of sliding charge density wave in Rb_{0.3}MoO₃”, *Journal de Physique IV* **12**, Pr9-323-Pr9-324 (2002).
348. **02MA493:** MAIRE E., BUFFIERE J.Y., SALVO L., BLANDIN J.J., LUDWIG W., LETANG J.M., “On the application of X-ray microtomography in the field of materials science”, *Advanced Engineering Materials* **3**, 539-546 (2001).
349. **02SC494:** SCHOBINGER-PAPAMANTELOS P., RODRIGUEZ-CARVAJAL J., BUSCHOW K.H.J., DOORYHEE E., FITCH A.N., “Re-entrant magneto-elastic transition in HoFe₄Ge₂: An XRPD study”, *Journal of Magnetism and Magnetic Materials* **250**, 225-240 (2002).
350. **02DA495:** DALLERA C., GRIONI M., SHUKLA A., VANKO G., SARRAO J.L., “Truly bulk-sensitive spectroscopic measurements of valence in heavy fermion materials”, *Journal of Synchrotron Radiation* **9**, 242-245 (2002).
351. **02LE496:** LE BOLLOCH D., LIVET F., BLEY F., SCHULLI T., VERON M., METZGER T.H., “X-ray diffraction from rectangular slits”, *Journal of Synchrotron Radiation* **9**, 258-265 (2002).
352. **02KA497:** KAISERMAYR M., SEPIOL B., COMBET J., RÜFFER R., PAPPAS C., VOGL G., “Diffusion in solids studied by nuclear resonant X-ray and neutron scattering”, *Journal of Synchrotron Radiation* **9**, 210-214 (2002).
353. **02LO498:** LONGFIELD M.J., PAIXÃO J.A., BERNHOEFT N., LANDER G.H., “Resonant X-ray scattering from multi-k magnetic structures”, *Physical Review B* **66**, 054417-1-054417-7 (2002).
354. **02RA499:** RAYMOND S., RUEFF J.P., D'ASTUTO M., BRAITHWAITE D., KRISCH M., FLOUQUET J., “Phonon anomalies at the valence transition of SmS: An inelastic X-ray-scattering study under pressure”, *Physical Review B* **66**, 220301-1-220301-4 (2002).
355. **02GO500:** GOURDAIN D., PRUZAN P., BESSON J.M., KLOTZ S., CHERVIN J.C., CANNY B., MARSHALL W.G., LOVEDAY J.S., HANFLAND M., “Compression of KNbO₃ up to 30 GPa: Transition sequence orthorhombic→tetragonal→cubic”, *Physical Review B* **65**, 054104-1-054104-5 (2002).
356. **02ME501:** MENEGHINI C., LEVY D., MOBILIO S., ORTOLANI M., NUÑEZ-REGUERO M., KUMAR A., SARMA D.D., “High-pressure structure and electronic transport in hole-doped La_{3/4}Ca_{1/4}MnO₃ perovskites”, *Physical Review B* **65**, 012111-1-012111-4 (2001).
357. **02JO502:** JOURNEL L., MARIOT J.M., RUEFF J.P., HAGUE C.F., KRILL G., NAKAZAWA M., KOTANI A., ROGALEV A., WILHELM F., KAPPLER J.P., SCHMERBER G., “Resonant inelastic X-ray scattering at the lanthanum L₃ edge”, *Physical Review B* **66**, 045106-1-045106-7 (2002).

358. **02SC503:** SCHERZ A., POULOPOULOS P., WENDE H., CEBALLOS G., BABERSCHKE K., WILHELM F., “Thickness dependence of the V induced magnetic moment in Fe/V/Fe(110) trilayers”, *Journal of Applied Physics* **91**, 8760-8762 (2002).
359. **02SA504:** SALLUZZO M., NATALI F., ARUTA C., MAGLIONE M.G., RICCI F., KOLLER E., FISCHER O., SAINI N.L., “Evidence of local structural transition during oxidation process of RBCO epitaxial films using time resolved reflexafs measurements”, *European Physical Journal B* **27**, 467-472 (2002).
360. **02TA505:** TAGUCHI M., GHIRINGHELLI G., TAGLIAFERRI A., PARLEBAS J.C., BROOKES N.B., BRAICOVICH L., “X-ray $M_{4,5}$ resonant Raman scattering from Gd with final $4p$ hole: Calculations with $4p-4d-4f$ configuration interaction in the final state and comparison with the experiment”, *Journal of Electron Spectroscopy and Related Phenomena* **125**, 139-146 (2002).
361. **02GA506:** GALLI F., FEYERHERM R., HENDRIKX R.W.A., DUDZIK E., NIEUWENHUYS G.J., RAMAKRISHNAN S., BROWN S.D., VAN SMAALEN S., MYDOSH J.A., “Coexistence of charge density wave and antiferromagnetism in $Er_5Ir_4Si_{10}$ ”, *Journal of Physics Condensed Matter* **14**, 5067-5075 (2002).
362. **02FR507:** FRIEDRICH A., KUNZ M., MILETICH R., PATTISON P., “High-pressure behavior of $Ba(OH)_2$: Phase transitions and bulk modulus”, *Physical Review B* **66**, 214103-1-214103-8 (2002).
363. **02NI508:** NICKEL B., SCHLESENER F., DONNER W., DOSCH H., DETLEFS C., “Crossover between strong- and weak-field critical adsorption and the determination of the universal exponent η_{\perp} ”, *Journal of Chemical Physics* **117**, 902-908 (2002).
364. **02BO509:** BOUSSET L., BELRHALI H., MELKI R., MORERA S., “Crystal structures of the yeast prion Ure2p functional region in complex with glutathione and related compounds”, *Biochemistry* **40**, 13564-13573 (2001).
365. **02RE510:** REICHERT H., BUGAEV V., SHCHYGLO O., SCHÖPS A., RAMSTEINER I., SIKULA Y., DOSCH H., HONKIMÄKI V., “Reply: Strain-induced nonanalytic short-range order in the spin glass $Cu_{83}Mn_{17}$ ”, *Physical Review Letters* **88**, 209604-1 (2002).
366. **02BI511:** BINNS C., BAKER S.H., MAHER M.J., THORNTON S.C., LOUCH S., DHESI S.S., BROOKES N.B., “Synchrotron radiation studies of mass-selected Fe nanoclusters deposited in situ”, *European Physical Journal D* **16**, 189-192 (2001).
367. **02DR512:** DRAKOPOULOS M., ZEGENHAGEN J., SNIGIREV A., SNIGIREVA I., HAUSER M., EBERL K., ARISTOV V., SHABELNIKOV L., YUNKIN V., “X-ray standing wave microscopy: Chemical microanalysis with atomic resolution”, *Applied Physics Letters* **81**, 2279-2281 (2002).
368. **02FI513:** FIQUET G., GUYOT F., KUNZ M., MATAS J., ANDRAULT D., HANFLAND M., “Structural refinements of magnesite at very high pressure”, *American Mineralogist* **87**, 1261-1265 (2002).
369. **02WI514:** WILKE M., FARGES F., PETIT P.E., BROWN JR G.E., MARTIN F., “Oxidation state and coordination of Fe in minerals: An Fe K -XANES spectroscopic study”, *American Mineralogist* **86**, 714-730 (2001).
370. **02GR515:** GRZECHNIK A., CRICHTON W.A., “Structural transformations in cubic $ZrMo_2O_8$ at high pressures and high temperatures”, *Solid State Sciences* **4**, 1137-1141 (2002).
371. **02VE516:** VEGAS A., GRZECHNIK A., HANFLAND M., MÜHLE C., JANSEN M., “Antifluorite to Ni_2In -type phase transition in K_2S at high pressures”, *Solid State Sciences* **4**, 1077-1081 (2002).
372. **02PI517:** PISTOLESI F., NOZIERES P., “Superconductivity with hard-core repulsion: BCS-Bose crossover and s -/ d -wave competition”, *Physical Review B* **66**, 054501-1-054501-10 (2002).
373. **02BU518:** BUKREEVA T.V., FEIGIN L.A., ARSLANOV V.V., ANTOLINI R., BELYAEV V.V., KONOVALOV O.V., MYAGKOV I.V., NOVOSELOVA E.G., SMIRNOV I.S., “X-ray reflectivity prove of Langmuir–Blodgett superlattice formation of lead and yttrium stearate alternative bilayers”, *Materials Science and Engineering C* **22**, 129-133 (2002).
374. **02BA519:** BADRO J., FIQUET G., STRUZHKIN V.V., SOMAYAZULU M., MAO H.K., SHEN G., LE BIHAN T., “Nature of the high-pressure transition in Fe_2O_3 hematite”, *Physical Review Letters* **89**, 205504-1-205504-4 (2002).
375. **02BO520:** BONGAERTS J.H.H., DAVID C., DRAKOPOULOS M., ZWANENBURG M.J., WEGDAM G.H., LACKNER T., KEYMEULEN H., VAN DER VEEN J.F., “Propagation of a partially coherent focused X-ray beam within a planar X-ray waveguide”, *Journal of Synchrotron Radiation* **9**, 383-393 (2002).
376. **02MU521:** MÜLLER R., WECKERT E., ZELLNER J., DRAKOPOULOS M., “Investigation of radiation-dose-induced changes in organic light-atom crystals by accurate d -spacing measurements”, *Journal of Synchrotron Radiation* **9**, 368-374 (2002).

377. **02MI522:** MIHELIC A., KODRE A., ARČON I., PADEŽNIK GOMILŠEK J., BOROWSKI M., “A double cell for X-ray absorption spectrometry of atomic Zn”, *Nuclear Instruments and Methods in Physics Research B* **196**, 194-197 (2002).
378. **02MO523:** MORAWE C., ZIEGLER E., PEFFEN J.C., KOZHEVNIKOV I.V., “Design and fabrication of depth-graded X-ray multilayers”, *Nuclear Instruments and Methods in Physics Research A* **493**, 189-198 (2002).
379. **02LO524:** LOZANO-CASTELLO D., RAYMUNDO-PIÑERO E., CAZORLA-AMOROS D., LINARES-SOLANO A., MÜLLER M., RIEKEL C., “Characterization of pore distribution in activated carbon fibers by microbeam small angle X-ray scattering”, *Carbon* **40**, 2727-2735 (2002).
380. **02AK525:** AKAHAMA Y., KAWAMURA H., LE BIHAN T., “A new distorted body-centred cubic phase of titanium (δ -Ti) at pressures up to 220 GPa”, *Journal of Physics Condensed Matter* **14**, 10583-10588 (2002).
381. **02UE526:** UEMURA E., AKAHAMA Y., KAWAMURA H., LE BIHAN T., SHOBU T., NODA Y., SHIMOMURA O., “Structural studies of β -O₂ under pressure”, *Journal of Physics Condensed Matter* **14**, 10423-10428 (2002).
382. **02SA527:** SANI A., HANFLAND M., LEVY D., “The equation of state of PbTiO₃ up to 37 GPa: A synchrotron X-ray powder diffraction study”, *Journal of Physics Condensed Matter* **14**, 10601-10604 (2002).
383. **02LE528:** LE BIHAN T., BOMBARDI A., IDIRI M., HEATHMAN S., LINDBAUM A., “High-pressure X-ray diffraction study of U_xLa_{1-x}S solid solution”, *Journal of Physics Condensed Matter* **14**, 10595-10600 (2002).
384. **02DU529:** DUFOUR C., DUMESNIL K., SORIANO S., MANGIN P., BROWN P.J., STUNAUULT A., BERNHOEFT N., “Magnetic structures in a dhcp samarium film”, *Physical Review B* **66**, 094428-1-094428-5 (2002).
385. **02CR530:** CRISTOFOLINI L., BERZINA T., FONTANA M.P., KONOVALOV O., “Structure and stability of molecular layers of a photosensitive azo-polyacrylate by X-rays reflectivity and GID”, *Molecular Crystals and Liquid Crystals* **375**, 689-699 (2002).
386. **02KO531:** KONOVALOV O., MYAGKOV I., STRUTH B., LOHNER K., “Lipid discrimination in phospholipid monolayers by the antimicrobial frog skin peptide PGLa. A synchrotron X-ray grazing incidence and reflectivity study”, *European Biophysics Journal* **31**, 428-437 (2002).
387. **02BE532:** BESSE M., CROS V., BARTHELEMY A., JAFFRES H., VOGEL J., PETROFF F., MIRONE A., TAGLIAFERRI A., BENCOK P., DECORSE P., BERTHET P., SZOTEK Z., TEMMERMAN W.M., DHESI S.S., BROOKES N.B., ROGALEV A., FERT A., “Experimental evidence of the ferrimagnetic ground state of Sr₂FeMoO₆ probed by X-ray magnetic circular dichroism”, *Europhysics Letters* **60**, 608-614 (2002).
388. **02GR533:** GRANDE T., STØLEN S., GRZECHNIK A., CRICHTON W.A., MEZOUAR M., “Metastable melting and pressure-induced amorphisation of GeSe₂”, *Physica A* **314**, 560-566 (2002).
389. **02DO534:** DOLBANYA I.P., ALBERDA H., HARTJES F.G., UDO F., BAKKER R.E., KONIJNENBURG M., HOMAN E., CERJAK I., GOEDTKINDT P., BRAS W., “A fast position sensitive microstrip-gas-chamber detector at high count rate operation”, *Review of Scientific Instruments* **73**, 3754-3758 (2002).
390. **02DE535:** DERIVAZ M., NOE P., DIANOUX R., BARSKI A., SCHÜLLI T., METZGER T.H., “Growth of highly strained germanium dots on Si(001) covered by a silicon nitride layer”, *Applied Physics Letters* **81**, 3843-3845 (2002).
391. **02PA536:** PALOSZ B., GRZANKA E., GIERLOTKA S., STEL'MAKH S., PIELASZEK R., BISMAYER U., NEUEFEIND J., WEBER H.P., PROFFEN T., VON DREELE R., PALOSZ W., “Analysis of short and long range atomic order in nanocrystalline diamonds with application of powder diffractometry”, *Zeitschrift für Kristallographie* **217**, 497-509 (2002).
392. **02CA537:** CARBAJAL-TINOCO M.D., OBER R., DOLBANYA I., BRAS W., WILLIAMS C.E., “Structural changes and chain conformation of hydrophobic polyelectrolytes”, *Journal of Physical Chemistry B* **106**, 12165-12169 (2002).
393. **02CO538:** COMODI P., GATTA G.D., ZANAZZI P.F., LEVY D., CRICHTON W., “Thermal equations of state of dioctahedral micas on the join muscovite–paragonite”, *Physics and Chemistry of Minerals* **29**, 538-544 (2002).
394. **02BO539:** BORG J., QUIRICO E., SIMIONOVICI A., RAYNAL P.I., CHEVALLIER P., LANGEVIN Y., “Synchrotron radiation as a tool for in situ investigation of extraterrestrial grains in low-density collectors: Application to the analyses of the PIE polymid foams targets”, *Planetary and Space Science* **50**, 1055-1065 (2002).
395. **02RO540:** RÖHLSBERGER R., THOMAS H., SCHLAGE K., BURKEL E., LEUPOLD O., RÜFFER R., “Imaging the magnetic spin structure of exchange-coupled thin films”, *Physical Review Letters* **89**, 237201-1-237201-4 (2002).

396. **02NI541:** NIETO SANZ D., LOUBEYRE P., MEZOUAR M., “Equation of state and pressure induced amorphization of β -boron from X-ray measurements up to 100 GPa”, *Physical Review Letters* **89**, 245501-1-245501-4 (2002).
397. **02FA542:** FAUTH F., SUARD E., CAIGNAERT V., MIREBEAU I., “Spin-state ordered clusters in the perovskite $\text{NdBaCo}_2\text{O}_{5.47}$ ”, *Physical Review B* **66**, 184421-1-184421-5 (2002).
398. **02TA543:** TALYZIN A.V., DUBROVINSKY L.S., ODEN M., LE BIHAN T., JANSSON U., “*In situ* X-ray diffraction study of C_{60} polymerization at high pressure and temperature”, *Physical Review B* **66**, 165409-1-165409-7 (2002).
399. **02BR544:** BRAICOVICH L., VAN DER LAAN G., GHIRINGHELLI G., TAGLIAFERRI A., BROOKES N.B., “Magnetic circular dichroism in X-ray resonant Raman scattering in perpendicular geometry from CoFe_2O_4 and Co metal: A comparison of valence and inner-shell channels”, *Physical Review B* **66**, 174435-1-174435-9 (2002).
400. **02DE545:** DE GROOT F.M.F., KRISCH M.H., VOGEL J., “Spectral sharpening of the Pt *L* edges by high-resolution X-ray emission”, *Physical Review B* **66**, 195112-1-195112-7 (2002).
401. **02DA546:** D'ACAPITO F., BOSCHERINI F., MOBILIO S., RIZZI A., LANTIER R., “Epitaxy and strain in the growth of GaN on AlN: A polarized X-ray absorption spectroscopy study”, *Physical Review B* **66**, 205411-1-205411-7 (2002).
402. **02SI547:** SIKHARULIDZE I., DOLBANYA I.P., FERA A., MADSEN A., OSTROVSKII B.I., DE JEU W.H., “Smectic membranes in motion: Approaching the fast limits of X-ray photon correlation spectroscopy”, *Physical Review Letters* **88**, 115503-1-115503-4 (2002).
403. **02BO548:** BOLZE J., PENG B., DINGENOUTS N., PANINE P., NARAYANAN T., BALLAUFF M., “Formation and growth of amorphous colloidal CaCO_3 precursor particles as detected by time-resolved SAXS”, *Langmuir* **18**, 8364-8369 (2002).
404. **02WI549:** WILLE H.C., SHVYD'KO Y.V., GERDAU E., LERCHE M., LUCHT M., RÜTER H.D., ZEGENHAGEN J., “Anomalous isotopic effect on the lattice parameter of silicon”, *Physical Review Letters* **89**, 285901-1-285901-4 (2002).
405. **02LE550:** LEE T.L., KUMPF C., KAZIMIROV A., LYMAN P.F., SCHERB G., BEDZYK M.J., NIELSEN M., FEIDENHANS'L R., JOHNSON R.L., FIMLAND B.O., ZEGENHAGEN J., “Structural analysis of the indium-stabilized $\text{GaAs}(001)\text{-}c(8\times 2)$ surface”, *Physical Review B* **66**, 235301-1-235301-9 (2002).
406. **02RE551:** REQUARDT H., LORENZO J.E., MONCEAU P., CURRAT R., KRISCH M., “Dynamics in the charge-density-wave system NbSe_3 using inelastic X-ray scattering with meV energy resolution”, *Physical Review B* **66**, 214303-1-214303-4 (2002).
407. **02CR552:** CRAIG C.L., RIEKEL C., “Comparative architecture of silks, fibrous proteins and their encoding genes in insects and spiders”, *Comparative Biochemistry and Physiology Part B* **133**, 493-507 (2002).
408. **02SC553:** SCOPIGNO T., RUOCCO G., SETTE F., VILIANI G., “Evidence of short-time dynamical correlations in simple liquids”, *Physical Review E* **66**, 031205-1-031205-7 (2002).
409. **02ME554:** MERMET A., DUVAL E., POLIAN A., KRISCH M., “High-frequency dynamics of the glass former dibutylphthalate under pressure”, *Physical Review E* **66**, 031510-1-031510-8 (2002).
410. **02SE555:** SELLSCHOP J.P.F., FREUND A., HOSZOWSKA J., CONNELL S.H., REBAK M., BURNS R.C., “The quest for diamond crystal perfection to meet the needs of physics: Unrealistic dream or attainable target?”, *Physica Status Solidi (a)* **193**, 415-422 (2002).
411. **02DU556:** DURELL M., MCDONALD J.E., TROLLEY D., WEHRUM A., JUKES P.C., JONES R.A.L., WALKER C.J., BROWN S., “The role of surface-induced ordering in the crystallisation of PET films”, *Europhysics Letters* **58**, 844-850 (2002).
412. **02GR557:** GRZECHNIK A., FARINA L., LAUCK R., SYASSEN K., LOA I., BOUVIER P., “Pressure-induced structural deformations in SeO_2 ”, *Journal of Solid State Chemistry* **168**, 184-191 (2002).
413. **02RU558:** RÜFFER R., “Nuclear resonant scattering into the new millennium”, *Hyperfine Interactions* **141/142**, 93-97 (2002).
414. **02AN559:** ANDREEVA M.A., SEMENOV V.G., LINDGREN B., HÄGGSTRÖM J.Z., KALSKA B., CHUMAKOV A.I., LEUPOLD O., RÜFFER R., PROKHOROV K.A., SALASHCHENKO N.N., “Interface sensitive investigation of $^{57}\text{Fe}/\text{Cr}$ superstructure by means of nuclear resonance standing waves in time scale”, *Hyperfine Interactions* **141/142**, 119-123 (2002).

415. **02NA560:** NAGY D.L., BOTTYAN L., DEAK L., DEGROOTE B., DEKOSTER J., LEUPOLD O., MAJOR M., MEERSSCHAUT J., RÜFFER R., SZILAGYI E., VANTOMME A., “Off-specular synchrotron Mössbauer reflectometry: A novel tool for studying the domain structure in antiferromagnetic multilayers”, *Hyperfine Interactions* **141/142**, 459-464 (2002).
416. **02PA561:** PAVESE A., DIELLA V., PISCHEDDA V., MERLI M., BOCCHIO R., MEZOUAR M., “Pressure–volume–temperature equation of state of andradite and grossular, by high-pressure and -temperature powder diffraction”, *Physics and Chemistry of Minerals* **28**, 242-248 (2001).
417. **02DE562:** DENNING R.G., GREEN J.C., HUTCHINGS T.E., DALLERA C., TAGLIAFERRI A., GIARDA K., BROOKES N.B., BRAICOVICH L., “Covalency in the uranyl ion: A polarized X-ray spectroscopic study”, *Journal of Chemical Physics* **117**, 8008-8020 (2002).
418. **02GR563:** GRENET T., GIROUD F., JOULAUD J.L., CAPITAN M., “Formation of icosahedral Al–Cu–Fe quasicrystal in annealed metallic multilayers”, *Philosophical Magazine A* **82**, 2909-2922 (2002).
419. **02RU564:** RUEFF J.P., JOLY Y., BARTOLOME F., KRISCH M., HODEAU J.L., MARQUES L., MEZOUAR M., KAPROLAT A., LORENZEN M., SETTE F., “X-ray Raman scattering from the carbon K edge in polymerized C₆₀: Experiment and theory”, *Journal of Physics Condensed Matter* **14**, 11635-11641 (2002).
420. **02SE565:** SEPIOL B., LÖSER W., KAISERMAYR M., WEINKAMER R., FRATZL P., THIESS H., SLADECEK M., VOGL G., “Microscopic diffusion mechanisms in Fe-Al, Ni-Ga and (Ni Fe)-Al B2 phases”, *Defect and Diffusion Forum* **194-199**, 349-356 (2001).
421. **02DU566:** DUBROVINSKY L., ANNERSTEN H., DUBROVINSKAIA N., WESTMAN F., HARRYSON H., FABRICHNAYA O., CARLSON S., “Chemical interaction of Fe and Al₂O₃ as a source of heterogeneity at the Earth's core–mantle boundary”, *Nature* **412**, 527-529 (2001).
422. **02PI567:** PIAZZESI G., RECONDITI M., LINARI M., LUCII L., SUN Y.B., NARAYANAN T., BOESECKE P., LOMBARDI V., IRVING M., “Mechanism of force generation by myosin heads in skeletal muscle”, *Nature* **415**, 659-662 (2002).
423. **02MI568:** MITCHELL E., HOULES C., SUDAKEVITZ D., WIMMEROVA M., GAUTIER C., PEREZ S., WU A.M., GILBOA-GARBER N., IMBERTY A., “Structural basis for oligosaccharide-mediated adhesion of *Pseudomonas aeruginosa* in the lungs of cystic fibrosis patients”, *Nature Structural Biology* **9**, 918-921 (2002).
424. **02HA569:** HAIRE R.G., HEATHMAN S., LE BIHAN T., LINDBAUM A., “The pressure behaviour of actinides via synchrotron radiation”, In: "Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources" (NEA, OECD, 2002) pp. 147-157.
425. **02LO570:** LOA I., KUNC K., SYASSEN K., BOUVIER P., “Crystal structure and lattice dynamics of AlB₂ under pressure and implications for MgB₂”, *Physical Review B* **66**, 134101-1-134101-8 (2002).
426. **02SO571:** SOLOZHENKO V.L., LE GODEC Y., KLOTZ S., MEZOUAR M., TURKEVICH V.Z., BESSON J.M., “*In situ* studies of boron nitride crystallization from BN solutions in supercritical N–H fluid at high pressures and temperatures”, *Physical Chemistry - Chemical Physics* **4**, 5386-5393 (2002).
427. **02SC572:** SCHÜLLI T., SZTUCKI M., CHAMARD V., METZGER T.H., SCHUH D., “Anomalous X-ray diffraction on InAs/GaAs quantum dot systems”, *Applied Physics Letters* **81**, 448-450 (2002).
428. **02ME573:** METZGER T.H., “Squeezing X-ray photons”, *Science* **297**, 205-206 (2002).
429. **02HE574:** HE L., GARAMUS V.M., FUNARI S.S., MALFOIS M., WILLUMEIT R., NIEMEYER B., “Comparison of small-angle scattering methods for the structural analysis of octyl-β-maltopyranoside micelles”, *Journal of Physical Chemistry B* **106**, 7596-7604 (2002).
430. **02CA575:** CAMERANI PINZANI M.C., SOMOGYI A., SIMIONOVICI A.S., ANSELL S., STEENARI B.M., LINDQVIST O., “Direct determination of cadmium speciation in municipal solid waste fly ashes by synchrotron radiation induced μ-X-ray fluorescence and μ-X-ray absorption spectroscopy”, *Environmental Science and Technology* **36**, 3165-3169 (2002).
431. **02MA576:** MCCARTHY A.A., WALSH M.A., VERMA C.S., O'CONNELL D.P., REINHOLD M., YALLOWAY G.N., D'ARCY D., HIGGINS T.M., VOORDOUW G., MAYHEW S.G., “Crystallographic investigation of the role of aspartate 95 in the modulation of the redox potentials of *Desulfovibrio vulgaris* flavodoxin”, *Biochemistry* **41**, 10950-10962 (2002).
432. **02KE577:** KEMPEÑAERS L., JANSSENS K., VINCZE L., VEKEMANS B., SOMOGYI A., DRAKOPOULOS M., SIMIONOVICI A., ADAMS F., “A Monte Carlo model for studying the microheterogeneity of trace elements in reference materials by means of synchrotron microscopic X-ray fluorescence”, *Analytical Chemistry* **74**, 5017-5026 (2002).

433. **02MU578:** MÜLLER M., HORI R., ITOH T., SUGIYAMA J., “X-ray microbeam and electron diffraction experiments on developing xylem cell walls”, *Biomacromolecules* **3**, 182-186 (2002).
434. **02DA579:** D'ACAPITO F., EMELIANOV I., RELINI A., CAVATORTA P., GLIOZZI A., MINICOZZI V., MORANTE S., SOLARI P.L., ROLANDI R., “Total external reflection X-ray absorption spectroscopy reveals a zinc coordination shell in phospholipid Langmuir–Blodgett films”, *Langmuir* **18**, 5277-5282 (2002).
435. **02BY580:** BYRD J.M., DE SANTIS S., JACOB J., SERRIERE V., “Transient beam loading effects in harmonic rf systems for light sources”, *Physical Review Special Topics - Accelerators and Beams* **5**, 092001-1-092001-11 (2002).
436. **02SA581:** SAFRANEK J., LIMBORG C., TEREBILO A., BLOMQVIST K.I., ELLEAUME P., NOSOCHKOV Y., “Nonlinear dynamics in a SPEAR wiggler”, *Physical Review Special Topics - Accelerators and Beams* **5**, 010701-1-010701-7 (2002).
437. **02BA582:** BARBIELLINI B., SHUKLA A., “*Ab initio* calculations of the hydrogen bond”, *Physical Review B* **66**, 235101-1-235101-5 (2002).
438. **02BA583:** BARLA A., SANCHEZ J.P., NI B., DOYLE B.P., VULLIET P., LEUPOLD O., RÜFFER R., KACZOROWSKI D., PLESSEL J., ABD-ELMEGUID M.M., “Effect of pressure on the magnetic properties of $U(\text{In}_{1-x}\text{Sn}_x)_3$: Moment suppression in $U(\text{In}_{0.6}\text{Sn}_{0.4})_3$ ”, *Physical Review B* **66**, 094425-1-094425-8 (2002).
439. **02CR584:** CRISTOFOLINI L., FONTANA M.P., BERZINA T., KONOVALOV O., “Molecular relaxation and microscopic structure of multilayers and superlattices of a photosensitive liquid-crystalline polymer”, *Physical Review E* **66**, 041801-1-041801-10 (2002).
440. **02CH585:** CHESNEL K., BELAKHOVSKY M., LIVET F., COLLINS S.P., VAN DER LAAN G., DHESI S.S., ATTANE J.P., MARTY A., “Soft-X-ray magnetic speckles from a nanostructured FePd wire”, *Physical Review B* **66**, 172404-1-172404-4 (2002).
441. **02CO586:** CORDE S., BISTON M.C., ELLEAUME H., ESTEVE F., CHARVET A.M., JOUBERT A., DUCROS V., BOHIC S., SIMIONOVICI A., BROCHARD T., NEMOZ C., RENIER M., TROPRES I., FIEDLER S., BRAVIN A., THOMLINSON W., LE BAS J.F., BALOSSO J., “Lack of cell death enhancement after irradiation with monochromatic synchrotron X-rays at the K-shell edge of platinum incorporated in living SQ20B human cells as *cis*-diamminedichloroplatinum (II)”, *Radiation Research* **158**, 763-770 (2002).
442. **02KI587:** KILIAN L., WEIGAND W., UMBACH E., LANGNER A., SOKOLOWSKI M., MEYERHEIM H.L., MALTOR H., COWIE B.C.C., LEE T., BÄUERLE P., “Adsorption site determination of a large π -conjugated molecule by normal incidence X-ray standing waves: End-capped quaterthiophene on Ag(111)”, *Physical Review B* **66**, 075412-1-075412-9 (2002).
443. **02KR588:** KRAUSE B., DÜRR A.C., RITLEY K., SCHREIBER F., DOSCH H., SMILGIES D., “Structure and growth morphology of an archetypal system for organic epitaxy: PTCDA on Ag(111)”, *Physical Review B* **66**, 235404-1-235404-11 (2002).
444. **02KR589:** KREISEL J., DKHIL B., BOUVIER P., KIAT J.M., “Effect of high pressure on relaxor ferroelectrics”, *Physical Review B* **65**, 172101-1-172101-4 (2002).
445. **02BO590:** BÖKER A., ELBS H., HÄNSEL H., KNOLL A., LUDWIGS S., ZETTL H., URBAN V., ABETZ V., MÜLLER A.H.E., KRAUSCH G., “Microscopic mechanisms of electric-field-induced alignment of block copolymer microdomains”, *Physical Review Letters* **89**, 135502-1-135502-14 (2002).
446. **02NE591:** NELSON C.S., HILL J.P., GIBBS D., YAKHOV F., LIVET F., TOMIOKA Y., KIMURA T., TOKURA Y., “Coherent X-ray scattering from manganite charge and orbital domains”, *Physical Review B* **66**, 134412-1-134412-5 (2002).
447. **02TA592:** TAYLOR J.W., DUFFY J.A., BEBB A.M., LEES M.R., BOUCHENOIRE L., BROWN S.D., COOPER M.J., “Temperature dependence of the spin and orbital magnetization density in $\text{Sm}_{0.982}\text{Gd}_{0.018}\text{Al}_2$ around the spin-orbital compensation point (Rapid Communications)”, *Physical Review B* **66**, 161319-1-161319-4 (2002).
448. **02SA593:** SAN MIGUEL A., FERLAT G., JAL J.F., MIZUNO A., ITAMI T., BOROWSKI M., “Structure of liquid Hg-Rb alloys: An X-ray absorption study”, *Physical Review B* **65**, 144203-1-144203-4 (2002).
449. **02PE594:** PETUKHOV A.V., AARTS D.G.A.L., DOLBANYA I.P., DE HOOG E.H.A., KASSAPIDOU K., VROEGE G.J., BRAS W., LEKKERKERKER H.N.W., “High-resolution small-angle X-ray diffraction study of long-range order in hard-sphere colloidal crystals”, *Physical Review Letters* **88**, 208301-1-208301-4 (2002).
450. **02BU595:** BURNS C.A., GIURA P., SAID A., SHUKLA A., VANKO G., TUEL-BENCKENDORF M., ISAACS E.D., PLATZMAN P.M., “Electronic interactions in the expanded metal compound Li-NH_3 ”, *Physical Review Letters* **89**, 236404-1-236404-4 (2002).

451. **02RA596:** RAVELLI R.B.G., THEVENEAU P., MCSWEENEY S., CAFFREY M., “Unit-cell volume change as a metric of radiation damage in crystals of macromolecules”, *Journal of Synchrotron Radiation* **9**, 355-360 (2002).
452. **02BI597:** BIASCI J.C., PLAN B., ZHANG L., “Design and performance of ESRF high-power undulator front-end components”, *Journal of Synchrotron Radiation* **9**, 44-46 (2002).
453. **02WE598:** WEIK M., BERGES J., RAVES M.L., GROS P., MCSWEENEY S., SILMAN I., SUSSMAN J.L., HOUEE-LEVIN C., RAVELLI R.B.G., “Evidence for the formation of disulfide radicals in protein crystals upon X-ray irradiation”, *Journal of Synchrotron Radiation* **9**, 342-346 (2002).
454. **02HE599:** HEELEY E.L., MORGOVAN A.C., BRAS W., DOLBANYA I.P., GLEESON A.J., RYAN A.J., “Shear-induced crystallization of polyethylene studied by small- and wide-angle X-ray scattering (SAXS/WAXS) techniques”, *PhysChemComm* **5**, 158-160 (2002).
455. **02BI600:** BIRKEDAL H., SCHWARZENBACH D., PATTISON P., “A fully extended tetrapeptide consisting of natural amino acids”, *Chemical Communications*, 2812-2813 (2002).
456. **02HA601:** HÄRTWIG J., KÖHLER S., LUDWIG W., MORICEAU H., ÖHLER M., PRIEUR E., “X-ray diffraction topography at a synchrotron radiation source applied to the study of bonded silicon on insulator material”, *Crystal Research and Technology* **37**, 705-715 (2002).
457. **02MI602:** MINATTI E., BORSALI R., SCHAPPACHER M., DEFFIEUX A., SOLDI V., NARAYANAN T., PUTAUX J.L., “Effect of cyclization of polystyrene/polyisoprene block copolymers on their micellar morphology”, *Macromolecular Rapid Communications* **23**, 978-982 (2002).
458. **02HU603:** HUPFELD D., SCHWEIKA W., STREMPFER J., CALIEBE W.A., KÖBLER U., MATTENBERGER K., MCINTYRE G.J., YAKHOU F., BRÜCKEL T., “Element-specific magnetic long- and short-range order and competing interactions in $Gd_xEu_{1-x}S$ ”, *European Physical Journal B* **26**, 273-289 (2002).
459. **02CH604:** CHAMARD V., PICHAT C., DOLINO G., “Formation of porous silicon: An in situ investigation with high-resolution X-ray diffraction”, *European Physical Journal B* **21**, 185-190 (2001).
460. **02FA605:** FAUTH F., SUARD E., CAIGNAERT V., DOMENEGES B., MIREBEAU I., KELLER L., “Interplay of structural, magnetic and transport properties in the layered Co-based perovskite $LnBaCo_2O_5$ ($Ln = Tb, Dy, Ho$)”, *European Physical Journal B* **21**, 163-174 (2001).
461. **02BL606:** BLASCO J., GARCIA J., SANCHEZ M.C., CAMPO J., SUBIAS G., PEREZ-CACHO J., “Magnetic properties of $LaNi_{1-x}Mn_xO_{3+\delta}$ perovskites”, *European Physical Journal B* **30**, 469-479 (2002).
462. **02HE607:** HEMON S., BERTHELOT A., DUFOUR C., GOURBILLEAU F., DOORYHEE E., BEGIN-COLIN S., PAUMIER E., “Influence of the crystallite size on the phase transformation of yttria irradiated with swift heavy ions”, *European Physical Journal B* **19**, 517-523 (2001).
463. **02LO608:** LOA I., ADLER P., GRZECHNIK A., SYASSEN K., SCHWARZ U., HANFLAND M., ROZENBERG G.K., GORODETSKY P., PASTERNAK M.P., “Suppression of Jahn-Teller distortion and insulator-to-metal transition in $LaMnO_3$ at high pressures”, *High Pressure Research* **22**, 325-329 (2002).
464. **02GO609:** GORELLI F.A., ULIVI L., SANTORO M., HANFLAND M., DESGRENIERS S., “X-ray diffraction of oxygen under pressure in a neon medium”, *High Pressure Research* **22**, 13-16 (2002).
465. **02NU610:** NUZZO S., PEYRIN F., CLOETENS P., BARUCHEL J., BOIVIN G., “Quantification of the degree of mineralization of bone in three dimensions using synchrotron radiation microtomography”, *Medical Physics* **29**, 2672-2681 (2002).
466. **02HA611:** HASNAH M.O., ZHONG Z., OLTULU O., PISANO E., JOHNSTON R.E., SAYERS D., THOMLINSON W., CHAPMAN D., “Diffraction enhanced imaging contrast mechanisms in breast cancer specimens”, *Medical Physics* **29**, 2216-2221 (2002).
467. **02SC612:** SCHNEIDER G., HAMBACH D., NIEMANN B., KAULICH B., SUSINI J., HOFFMANN N., HASSE W., “*In situ* X-ray microscopic observation of the electromigration in passivated Cu interconnects”, *Applied Physics Letters* **78**, 1936-1938 (2001).
468. **02KI613:** KINTZEL JR. E.J., SMILGIES D.M., SKOFRONICK J.G., SAFRON S.A., VAN WINKLE D.H., TRELENBERG T.W., AKHADOV E.A., FLAHERTY F.A., “Investigation of the morphology of the initial growth of the aromatic molecule *p*-quaterphenyl on NaCl (001)”, *Journal of Vacuum Science and Technology A* **19**, 1270-1276 (2001).
469. **02DI615:** DILLMANN P., WEULERSSE K., REGAD B., MOULIN G., BARRETT R., BONNIN-MOSBAH M., LEQUIEN S., BERGER P., “Austenitic steel corrosion in IGCC environment. Characterisation by photon and nuclear microprobes”, *Nuclear Instruments and Methods in Physics Research B* **181**, 734-738 (2001).

470. **02BL616:** BLUME H., BÖSECKE P., BOURENKOV G.P., KOSCIESZA D., BARTUNIK H.D., “The protein crystallography beamline BW6 at DORIS – automatic operation and high-throughput data collection”, Nuclear Instruments and Methods in Physics Research A **467-468**, 1358-1362 (2001).
471. **02PR617:** PRAZERES R., SERRIERE V., “Calculation of intracavity laser modes in the case of a partial waveguiding in the vacuum chamber of the "CLIO" FEL”, Nuclear Instruments and Methods in Physics Research A **475**, 524-530 (2001).
472. **02PO620:** POMP S., INGELMAN G., JOHANSSON T., OHLSSON S., “String model description of polarisation and angular distributions in $\bar{p} p \rightarrow \bar{\Lambda} \Lambda$ at low energies”, European Physical Journal A **15**, 517-522 (2002).
473. **02JE621:** JEAN B., BOKIAS G., LEE L.T., ILIOPOULOS I., CABANE B., “Microphase separation of cationic poly(*N*-isopropylacrylamide) copolymers in water: Effect of the migration of charges”, Colloid and Polymer Science **280**, 908-914 (2002).
474. **02SZ723:** SZTUCKI M., METZGER T.H., KEGEL I., TILKE A., ROUVIERE J.L., LÜBBERT D., ARTHUR J., PATEL J.R., “X-ray analysis of temperature induced defect structures in boron implanted silicon”, Journal of Applied Physics **92**, 3694-3703 (2002).
475. **02ST624:** ŠTICHAUER L., MIRONO A., TURCHINI S., PROSPERI T., ZENARO S., ZEMA N., LAMA F., PONTIN R., ŠIMŠA Z., TAILHADES P., BONNINGUE C., “X-ray absorption spectroscopy and magnetic circular dichroism of the Mn-ferrite nanocrystalline thin films”, Journal of Applied Physics **90**, 2511-2516 (2001).
476. **02SC625:** SCHELOKOV I., WEITKAMP T., SNIGIREV A., “Reconstruction of an object phase transmission function from in-line X-ray holograms”, Optics Communications **213**, 247-258 (2002).
477. **02YA626:** YAVARI A.R., LE MOULEC A., INOUE A., VAUGHAN G., KVICK Å., “Processing of bulk glass forming alloys in high energy synchrotron beams”, Annales de Chimie Science des Matériaux **27**, 107-112 (2002).
478. **02CO627:** COMEZ L., FIORETTO D., MONACO G., RUOCCO G., “Brillouin scattering investigations of fast dynamics in glass forming systems”, Journal of Non-Crystalline Solids **307-310**, 148-153 (2002).
479. **02SU628:** SUZUKI H., GIGNOUX D., SCHMITT D., SHIGEOKA T., CANFIELD P.C., DETLEFS C., “Angular dependence of the metamagnetic process in the frustrated tetragonal compound ErRu_2Ge_2 ”, Journal of Magnetism and Magnetic Materials **251**, 16-24 (2002).
480. **02LE629:** LE BIHAN T., HAIRE R.G., HEATHMAN S., IDIRI M., LINDBAUM A., “Investigating the structural behavior of transplutonium elements to very high pressure via synchrotron radiation: $\text{Am}_{0.5}\text{Cm}_{0.5}$ alloy as an example”, Journal of Nuclear Science and Technology - Supplement **3**, 45-48 (2002).
481. **02ME630:** MEZOUAR M., FAURE P., CRICHTON W., RAMBERT N., SITAUD B., BAUCHAU S., BLATTMANN G., “Multichannel collimator for structural investigation of liquids and amorphous materials at high pressures and temperatures”, Review of Scientific Instruments **73**, 3570-3574 (2002).
482. **02ZH631:** ZHITOMIRSKY M.E., “Field-induced transitions in a Kagomé antiferromagnet”, Physical Review Letters **88**, 057204-1-057204-4 (2002).
483. **02ST632:** STOICA M., DEGMOVA J., ROTH S., ECKERT J., GRAHL H., SCHULTZ L., REZA YAVARI A., KVICK Å., HEUNEN G., “Magnetic properties and phase transformations of bulk amorphous Fe-based alloys obtained by different techniques”, Materials Transactions **43**, 1966-1973 (2002).
484. **02GL633:** GLOOR T.A., ZHITOMIRSKY M.E., RICE T.M., “Multiexciton molecules in the hexaborides”, European Physical Journal B **21**, 491-497 (2001).
485. **02BO634:** BOTTI A., PYCKHOUT-HINTZEN W., URBAN V., KOHLBRECHER J., RICHTER D., STRAUBE E., “Silica-filled elastomers: Polymer chain and filler characterization by a SANS-SAXS approach”, Applied Physics A **74 (Suppl.)**, S513-S515 (2002).
486. **02DU635:** DÜRR H.A., MÜNZENBERG M., FELSCH W., DHESI S.S., “Spin reorientation transition in Fe/CeH₂ multilayers probed by soft X-ray resonant magnetic scattering”, Applied Physics A **73**, 693-696 (2001).
487. **02UR636:** URBAN V., BOTTI A., PYCKHOUT-HINTZEN W., RICHTER D., STRAUBE E., “Composites reinforcement by rods: A SAS study”, Applied Physics A **74 (Suppl.)**, S510-S512 (2002).
488. **02CH637:** CHUKALINA M., SIMIONOVICI A., SNIGIREV A., JEFFRIES T., “Quantitative characterization of microsamples by X-ray fluorescence tomography”, X-Ray Spectrometry **31**, 448-450 (2002).
489. **02PO638:** POTZEL W., VAN BÜRCK U., SCHINDELMANN P., KALVIUS G.M., SMIRNOV G.V., GERDAU E., SHVYD'KO Y.V., RÜTER H.D., LEUPOLD O., “Investigation of radiative coupling and of enlarged decay rates of nuclear oscillators”, Physical Review A **63**, 043810-1-043810-12 (2001).

490. **02MO639:** MOYES L.N., JONES M.J., REED W.A., LIVENS F.R., CHARNOCK J.M., MOSSELMANS J.F.W., HENNIG C., VAUGHAN D.J., PATTRICK R.A.D., "An X-ray absorption spectroscopy study of neptunium(V) reactions with mackinawite (FeS)", *Environmental Science and Technology* **36**, 179-183 (2002).
491. **02DE640:** DELARUE M., BOULE J.B., LESCAR J., EXPERT-BEZANÇON N., JOURDAN N., SUKUMAR N., ROUGEON F., PAPANICOLAOU C., "Crystal structures of a template-independent DNA polymerase: Murine terminal deoxynucleotidyltransferase", *EMBO Journal* **21**, 427-439 (2002).
492. **02FA641:** FARGES F., HARFOUCHE M., PETIT P.E., BROWN JR G.E., "Actinides in earth materials: The importance of natural analogues", In: "Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources" (NEA, OECD, 2002) pp. 63-74.
493. **02SA642:** SALBU B., JANSSENS K., LIND O.C., SIMIONOVICI A., KREKLING T., DRAKOPOULOS M., SNIGIREVA I., SNIGIREV A., "SR-based X-ray microbeam techniques utilised for solid-state speciation of U in fuel particles", In: "Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources" (NEA, OECD, 2002) pp. 119-124.
494. **02CH643:** CHUKALINA M., SIMIONOVICI A., SNIGIREV A., "X-ray fluorescence microtomography with synchrotron radiation: Image reconstruction", In: "Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources" (NEA, OECD, 2002) pp. 215-221.
495. **02SA644:** SANI A., CRUCIANI G., GUALTIERI A.F., "Dehydration dynamics of Ba-phillipsite: An in situ synchrotron powder diffraction study", *Physics and Chemistry of Minerals* **29**, 351-361 (2002).
496. **02SC645:** SCHÜBLER-LANGEHEINE C., WESCHKE E., MEIER R., GRIGORIEV A.Y., OTT H., MAZUMDAR C., VYALIKH D.V., SUTTER C., ABERNATHY D., GRÜBEL G., KAINDL G., "Resonant magnetic X-ray scattering from *in situ* grown holmium-metal films", In: "Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources" (NEA, OECD, 2002) pp. 295-302.
497. **02EI646:** EICHHORN F., SCHELL N., MÜCKLICH A., METZGER H., MATZ W., KÖGLER R., "Structural relation between Si and SiC formed by carbon ion implantation", *Journal of Applied Physics* **91**, 1287-1292 (2002).
498. **02RA647:** RASTOGI S., LA CAMERA D., VAN DER BURGT F., TERRY A.E., CHENG S.Z.D., "Polymorphism in syndiotactic polypropylene: Thermodynamic stable regions for form I and form II in pressure-temperature phase diagram", *Macromolecules* **34**, 7730-7736 (2001).
499. **02DO648:** DORA B., MAKI K., KORIN-HAMZIĆ B., BASLETIĆ M., VIROSZTEK A., KARTSOVNIK M.V., MÜLLER H., "The angular dependent magnetoresistance in α -(BEDT-TTF)₂KHg(SCN)₄", *Europhysics Letters* **60**, 737-742 (2002).
500. **02SA649:** SAYAGO D.I., SERRANO P., BÖHME O., GOLDONI A., PAOLUCCI G., ROMAN E., MARTIN-GAGO J.A., "A photoemission study of the SO₂ adsorption on TiO₂ (1 1 0) surfaces", *Surface Science* **482-485**, 9-14 (2001).
501. **02RO650:** ROBACH O., ROBINSON I.K., DURFEE C.S., WIEMEYER B.W., FLYNN C.P., "Oxygen-induced stress-modified reconstructions of the Ta(1 1 0)/Al₂O₃(1 1 - 2 0) surface: A surface X-ray diffraction study", *Surface Science* **492**, 41-54 (2001).
502. **02LE651:** LEE J.J., FISHER C.J., WOODRUFF D.P., ROPER M.G., JONES R.G., COWIE B.C.C., "Non-dipole effects in photoelectron-monitored X-ray standing wave experiments: Characterisation and calibration", *Surface Science* **494**, 166-182 (2001).
503. **02RA652:** RABAGLINO E., FERRERO C., REIMANN J., RONCHI C., SCHULENBERG T., "Study of the microstructure of neutron irradiated beryllium for the validation of the ANFIBE code", *Fusion Engineering and Design* **61-62**, 769-773 (2002).
504. **02CH653:** CHAMARD V., PICHAT C., DOLINO G., "Rinsing and drying studies of porous silicon by high resolution X-ray diffraction", *Solid State Communications* **118**, 135-139 (2001).
505. **02RE654:** REZACOVA P., LESCAR J., BRYNDA J., FABRY M., HOREJSI M., SEDLACEK J., BENTLEY G.A., "Structural basis of HIV-1 and HIV-2 protease inhibition by a monoclonal antibody", *Structure* **9**, 887-895 (2001).
506. **02DR655:** DREVENY I., GRUBER K., GLIEDER A., THOMPSON A., KRATKY C., "The hydroxynitrile lyase from almond: A lyase that looks like an oxidoreductase", *Structure* **9**, 803-815 (2001).
507. **02CO656:** COTTON N.P.J., WHITE S.A., PEAKE S.J., MCSWEENEY S., JACKSON J.B., "The crystal structure of an asymmetric complex of the two nucleotide binding components of proton-translocating transhydrogenase", *Structure* **9**, 165-176 (2001).
508. **02TA657:** TARDIEU A., BONNETE F., FINET S., VIVARES D., "Understanding salt or PEG induced attractive interactions to crystallize biological macromolecules", *Acta Crystallographica D* **58**, 1549-1553 (2002).

509. **02RO658:** ROYANT A., GRIZOT S., KAHN R., BELRHALI H., FIESCHI F., LANDAU E.M., PEBAY-PEYROULA E., “Detection and characterization of merohedral twinning in two protein crystals: Bacteriorhodopsin and p67^{phox}”, *Acta Crystallographica D* **58**, 784-791 (2002).
510. **02KN659:** KNIGHT S.D., CHOUDHURY D., HULTGREN S., PINKNER J., STOJANOFF V., THOMPSON A., “Structure of the S pilus periplasmic chaperone SfaE at 2.2 Å resolution”, *Acta Crystallographica D* **58**, 1016-1022 (2002).
511. **02LE660:** LESLIE A.G.W., POWELL H.R., WINTER G., SVENSSON O., SPRUCE D., MCSWEENEY S., LOVE D., KINDER S.H., DUKE E., NAVE C., “Automation of the collection and processing of X-ray diffraction data – a generic approach”, *Acta Crystallographica D* **58**, 1924-1928 (2002).
512. **02AB661:** ABRESCIA N.G.A., THOMPSON A., HUYNH-DINH T., SUBIRANA J.A., “Crystal structure of an antiparallel DNA fragment with Hoogsteen base pairing”, *PNAS* **99**, 2806-2811 (2002).
513. **02PA664:** PAVESE A., LEVY D., PISCHEDDA V., “Elastic properties of andradite and grossular, by synchrotron X-ray diffraction at high pressure conditions”, *European Journal of Mineralogy* **13**, 929-937 (2001).
514. **02CO665:** COLLINS S.P., LAUNDY D., HARRIS K.D.M., KARIUKI B.M., BAUER C.L., BROWN S.D., THOMPSON P., “X-ray linear dichroism in an α , ω -dibromoalkane/urea inclusion compound and its application to polarization analysis of magnetic diffraction”, *Journal of Physics Condensed Matter* **14**, 123-134 (2002).

Papers published in periodicals, books, conference proceedings, without ESRF authors and co-authors

515. **02BR1002:** BRÖNNIMANN C., BAUR R., EIKENBERRY E.F., FISCHER P., FLORIN S., HORISBERGER R., LINDNER M., SCHMITT B., SCHULZE C., “A pixel detector for the protein crystallography beamline at the SLS”, *Nuclear Instruments and Methods in Physics Research A* **477**, 531-535 (2002).
516. **02KO1007:** KOGEJ K., THEUNISSEN E., REYNAERS H., “Formation of organized structures in systems containing alkylpyridinium surfactants and sodium poly(styrenesulfonate)”, *Acta Chimica Slovenica* **48**, 353-362 (2001).
517. **02MC1008:** MCCRINDLE R., “Preface”, *Spectrochimica Acta A* **57**, 385-390 (2002).
518. **02KI1009:** KINGETSU T., YAMAMOTO M., “Growth of short-period epitaxial superlattices for X-ray multilayer mirrors”, *Surface Science Reports* **45**, 79-116 (2002).
519. **02CA1010:** CABALLERO A., OCAÑA M., “Synthesis and structural characterization by X-ray absorption spectroscopy of tin-doped mullite solid solutions”, *Journal of the American Ceramic Society* **85**, 1910-1914 (2002).
520. **02RA1011:** RAMON-MAIQUES S., MARINA A., GIL-ORTIZ F., FITA I., RUBIO V., “Structure of acetylglutamate kinase, a key enzyme for arginine biosynthesis and a prototype for the amino acid kinase enzyme family, during catalysis”, *Structure* **10**, 329-342 (2002).
521. **02CO1012:** COLL M., SEIDMAN J.G., MÜLLER C.W., “Structure of the DNA-bound T-box domain of human TBX3, a transcription factor responsible for Ulnar-Mammary syndrome”, *Structure* **10**, 343-356 (2002).
522. **02NO1013:** NORMAN R.A., MCALISTER M.S.B., MURRAY-RUST J., MOVAHEDZADEH F., STOKER N.G., MCDONALD N.Q., “Crystal structure of inositol 1-phosphate synthase from *Mycobacterium tuberculosis*, a key enzyme in phosphatidylinositol synthesis”, *Structure* **10**, 393-402 (2002).
523. **02BE1014:** BEEKMANS L.G.M., VAN DER MEER D.W., VANCISO G.J., “Crystal melting and its kinetics on poly(ethylene oxide) by in situ atomic force microscopy”, *Polymer* **43**, 1887-1895 (2002).
524. **02BU1015:** BUTTARD D., BELLET D., DOLINO G., BAUMBACH T., “X-ray diffuse scattering of *p*-type porous silicon”, *Journal of Applied Physics* **91**, 2742-2752 (2002).
525. **02NG1016:** NGHIEM P., TORDEUX M.A., LEVEL M.P., “Study on coupling and coupling correction for the SOLEIL ring”, *Nuclear Instruments and Methods in Physics Research A* **480**, 339-348 (2002).
526. **02GR1017:** GRAHAM D.L., LOWE P.N., GRIME G.W., MARSH M., RITTINGER K., SMERDON S.J., GAMBLIN S.J., ECCLESTON J.F., “MgF₃⁻ as a transition state analog of phosphoryl transfer”, *Chemistry and Biology* **9**, 375-381 (2002).
527. **02ZA1018:** ZÄNKER H., MOLL H., RICHTER W., BRENDLER V., HENNIG C., REICH T., KLUGE A., HÜTTIG G., “The colloid chemistry of acid rock drainage solution from an abandoned Zn–Pb–Ag mine”, *Applied Geochemistry* **17**, 633-648 (2002).

528. **02HE1019:** HELMHOLDT R.B., PESCHAR R., SCHENK H., "Structure of C₁₅-, C₁₇- and C₁₉-mono-acid β -triacylglycerols", *Acta Crystallographica B* **58**, 134-139 (2002).
529. **02TA1020:** TABUDRAVU J.N., EIJSINK V.G.H., GOODAY G.W., JASPARS M., KOMANDER D., LEGG M., SYNSTAD B., VAN AALTEN D.M.F., "Psammaplin A, a chitinase inhibitor isolated from the Fijian marine sponge *Aplysinella Rhax*", *Bioorganic & Medicinal Chemistry* **10**, 1123-1128 (2002).
530. **02LU1021:** LUCA S.E., AMARA M., GALERA R.M., BERAR J.F., "Multipolar X-ray diffraction study of the canted magnetic structure of TbMg", *Journal of Physics Condensed Matter* **14**, 935-944 (2002).
531. **02BA1022:** BAZIN D., GUCZI L., LYNCH J., "Anomalous wide angle X-ray scattering (AWAXS) and heterogeneous catalysts", *Applied Catalysis A* **226**, 87-113 (2002).
532. **02TO1023:** TOULEMONDE P., ODIER P., BORDET P., BRUYERE R., THOLENCE J.L., "Optimal and overdoped superconducting regimes in Hg-2212 system by Pb substitution", *Physica C* **366**, 147-156 (2002).
533. **02VA1024:** VAN LANGEVELDE A., DRIESSEN R., MOLLEMAN W., PESCHAR R., SCHENK H., "Cocoa-butter long spacings and the memory effect", *Journal of the American Oil Chemists' Society* **78**, 911-918 (2001).
534. **02RE1025:** RENARD F., ANGHINOLFI M., BARTALINI O., BELLINI V., BOCQUET J.P., CAPOGNI M., CASTOLDI M., CORVISIERO P., D'ANGELO A., DIDELEZ J.P., DI SALVO R., GAULARD C., GERVINO G., GHIO F., GIROLAMI B., GUIDAL M., HOURANY E., KOUZNETSOV V., KUNNE R., LAPIK A., LEVI SANDRI P., LLERES A., MORRICIANI D., NEDOREZOV V., NICOLETTI L., REBREYEND D., RUDNEV N., SANZONE M., SCHAERF C., SPERDUTO M.L., SUTERA M.C., TAIUTI M., TURINGE A., ZHAO Q., ZUCCHIATTI A., "Differential cross section measurement of η photoproduction on the proton from threshold to 1100 MeV", *Physics Letters B* **528**, 215-220 (2002).
535. **02OW1026:** OWENS A., BAVDAZ M., PEACOCK A., ANDERSSON H., NENONEN S., KRUMREY M., PUIG A., "High resolution X-ray spectroscopy using a GaAs pixel detector", *Nuclear Instruments and Methods in Physics Research A* **479**, 531-534 (2002).
536. **02AR1027:** AROLD S.T., HOELLERER M.K., NOBLE M.E.M., "The structural basis of localization and signaling by the focal adhesion targeting domain", *Structure* **10**, 319-327 (2002).
537. **02AL1028:** ALDERMAN J., JOB P.K., MARTIN R.C., SIMMONS C.M., OWEN G.D., "Measurement of radiation-induced demagnetization of Nd-Fe-B permanent magnets", *Nuclear Instruments and Methods in Physics Research A* **481**, 9-28 (2002).
538. **02BE1029:** BERGMANN U., GLATZEL P., CRAMER S.P., "Bulk-sensitive XAS characterization of light elements: From X-ray Raman scattering to X-ray Raman spectroscopy", *Microchemical Journal* **71**, 221-230 (2002).
539. **02HA1030:** HAMDAN S., CARR P.D., BROWN S.E., OLLIS D.L., DIXON N.E., "Structural basis for proofreading during replication of the *Escherichia coli* chromosome", *Structure* **10**, 535-546 (2002).
540. **02FA1045:** FAIGEL G., TEGZE M., MARCHESINI S., BELAKHOVSKY M., "X-ray fluorescence holography", *Journal of Electron Spectroscopy and Related Phenomena* **114-116**, 1063-1068 (2001).
541. **02MA1047:** MAIER A., RIEDLINGER B., TREUBEL F., MARET M., ALBRECHT M., BEAUREPAIRE E., TONNERRE J.M., SCHATZ G., "Nanostructured CoPt₃(111) films grown on WSe₂(0 0 0 1)", *Journal of Magnetism and Magnetic Materials* **240**, 377-379 (2002).
542. **02WE1048:** WERNER E., ZIEGLER M., LERNER F., SCHWEIGER M., HEINEMANN U., "Crystal structure of human nicotinamide mononucleotide adenylyltransferase in complex with NMN", *FEBS Letters* **516**, 239-244 (2002).
543. **02CU1049:** CURDA J., KLEIN W., LIU H., JANSEN M., "Structure redetermination and high pressure behaviour of AgCuO₂", *Journal of Alloys and Compounds* **338**, 99-103 (2002).
544. **02DE1050:** DEEN P.P., GOFF J.P., WARD R.C.C., WELLS M.R., STUNAUULT A., "The anomalous lineshape at L edge resonances of Nd/Pr superlattices", *Journal of Magnetism and Magnetic Materials* **240**, 553-555 (2002).
545. **02IS1051:** ISAURE M.P., LABOUDIGUE A., MANCEAU A., SARRET G., TIFFREAU C., TROCELLIER P., LAMBLE G., HAZEMANN J.L., CHATEIGNER D., "Quantitative Zn speciation in a contaminated dredged sediment by μ -PIXE, μ -SXRF, EXAFS spectroscopy and principal component analysis", *Geochimica et Cosmochimica Acta* **66**, 1549-1567 (2002).
546. **02YA1052:** YARTYS V.A., OLAVESSEN T., HAUBACK B.C., FJELLVÅG H., "Orthorhombic NdNiSnD with filled TiNiSi-type structure", *Journal of Alloys and Compounds* **336**, 181-186 (2002).

547. **02GA1053:** GAUTHIER V., BERNARD F., GAFFET E., VREL D., GAILHANOU M., LARPIN J.P., “Investigations of the formation mechanism of nanostructured NbAl₃ via MASHS reaction”, *Intermetallics* **10**, 377-389 (2002).
548. **02BE1054:** BERLIER G., SPOTO G., FISICARO P., BORDIGA S., ZECCHINA A., GIAMELLO E., LAMBERTI C., “Co-ordination and oxidation changes undergone by iron species in Fe-silicalite upon template removal, activation and interaction with N₂O: An in situ X-ray absorption study”, *Microchemical Journal* **71**, 101-116 (2002).
549. **02PA1055:** PARIS O., LOIDL D., PETERLIK H., “Texture of PAN- and pitch-based carbon fibers”, *Carbon* **40**, 551-555 (2002).
550. **02RO1056:** ROSEI F., ROSEI R., “Atomic description of elementary surface processes: Diffusion and dynamics”, *Surface Science* **500**, 395-413 (2002).
551. **02CO1057:** COLONNA S., DE ROSSI S., FATICANTI M., PETTITI I., PORTA P., “Zirconia supported La, Co oxides and LaCoO₃ perovskite: Structural characterization and catalytic CO oxidation”, *Journal of Molecular Catalysis A* **180**, 161-168 (2002).
552. **02VL1058:** VLIEG E., “Understanding crystal growth in vacuum and beyond”, *Surface Science* **500**, 458-474 (2002).
553. **02KA1059:** KAWANA S., DURRELL M., LU J., MACDONALD J.E., GRELL M., BRADLEY D.D.C., JUKES P.C., JONES R.A.L., BENNETT S.L., “X-ray diffraction study of the structure of thin polyfluorene films”, *Polymer* **43**, 1907-1913 (2002).
554. **02DE1060:** DERIVAZ M., NOE P., ROUVIERE J.L., BUTTARD D., SOTTA D., GENTIL P., BARSKI A., “Epitaxial growth of germanium dots on silicon (001) surface covered by a very thin dielectric layer”, *Materials Science and Engineering B* **89**, 191-195 (2002).
555. **02GR1061:** GRESCHIK H., WURTZ J.M., SANGLIER S., BOURGUET W., VAN DORSSELAER A., MORAS D., RENAUD J.P., “Structural and functional evidence for ligand-independent transcriptional activation by the estrogen-related receptor 3”, *Molecular Cell* **9**, 303-313 (2002).
556. **02UR1062:** URSBY T., WEIK M., FIORAVANTI E., DELARUE M., GOELDNER M., BOURGEOIS D., “Cryophotolysis of caged compounds: A technique for trapping intermediate states in protein crystals”, *Acta Crystallographica D* **58**, 607-614 (2002).
557. **02CO1063:** CONSTANTINESCU A.T., RAK A., ALEXANDROV K., ESTERS H., GOODY R.S., SCHEIDIG A.J., “Rab-subfamily-specific regions of Ypt7p are structurally different from other RabGTPases”, *Structure* **10**, 569-579 (2002).
558. **02BA1064:** BAILEY S., SEDELNIKOVA S.E., BLACKBURN G.M., ABDELGHANY H.M., BAKER P.J., MACLENNAN A.G., RAFFERTY J.B., “The crystal structure of diadenosine tetraphosphate hydrolase from *Caenorhabditis elegans* in free and binary complex forms”, *Structure* **10**, 589-600 (2002).
559. **02BI1065:** BIGAULT T., BOCQUET F., LABAT S., THOMAS O., RENEVIER H., “Chemically diffuse interface in (111) Au–Ni multilayers: An anomalous X-ray diffraction analysis”, *Applied Surface Science* **188**, 110-114 (2002).
560. **02TO1066:** TORMEN M., DE SALVADOR D., BOSCHERINI F., ROMANATO F., DRIGO A.V., MOBILIO S., “Strain effect on interatomic distances in InGaAs/InP epitaxial layers”, *Applied Surface Science* **188**, 85-89 (2002).
561. **02RU1067:** RUTHERFORD A., “Cancer research UK looks to NCI for success”, *Trends in Molecular Medicine* **8**, 96-97 (2002).
562. **02FU1068:** FUSETTI F., SCHRÖTER K.H., STEINER R.A., VAN NOORT P.I., PIJNING T., ROZEBOOM H.J., KALK K.H., EGMOND M.R., DIJKSTRA B.W., “Crystal structure of the copper-containing quercetin 2,3-dioxygenase from *Aspergillus japonicus*”, *Structure* **10**, 259-268 (2002).
563. **02BU1069:** BUDAYOVA-SPANO M., BONNETE F., ASTIER J.P., VEESLER S., “Investigation of aprotinin (BPTI) solutions during nucleation”, *Journal of Crystal Growth* **235**, 547-554 (2002).
564. **02AN1070:** ANTORINI M., HERPOËL-GIMBERT I., CHOINOWSKI T., SIGOILLOT J.C., ASTHER M., WINTERHALTER K., PIONTEK K., “Purification, crystallisation and X-ray diffraction study of fully functional laccases from two ligninolytic fungi”, *Biochimica et Biophysica Acta* **1594**, 109-114 (2002).
565. **02PO1071:** POTT T., ROUX D., “DNA intercalation in neutral multilamellar membranes”, *FEBS Letters* **511**, 150-154 (2002).

566. **02FU1072:** FURET P., MEYER T., STRAUSS A., RACCUGLIA S., RONDEAU J.M., “Structure-based design and protein X-ray analysis of a protein kinase inhibitor”, *Bioorganic and Medicinal Chemistry Letters* **12**, 221-224 (2002).
567. **02YA1073:** YARTYS V.A., DENYS R.V., HAUBACK B.C., FJELLVÅG H., BULYK I.I., RIABOV A.B., KALYCHAK Y.M., “Short hydrogen–hydrogen separations in novel intermetallic hydrides, RE₃Ni₃In₃D₄ (RE=La, Ce and Nd)”, *Journal of Alloys and Compounds* **330-332**, 132-140 (2002).
568. **02YA1074:** YARTYS V.A., OLAVESSEN T., HAUBACK B.C., FJELLVÅG H., BRINKS H.W., “Hexagonal LaNiSnD₂ with a filled ZrBeSi-type structure”, *Journal of Alloys and Compounds* **330-332**, 141-145 (2002).
569. **02TO1075:** TÖRNROTH S., YANKOVSKAYA V., CECCHINI G., IWATA S., “Purification, crystallisation and preliminary crystallographic studies of succinate: Ubiquinone oxidoreductase from *Escherichia coli*”, *Biochimica et Biophysica Acta* **1553**, 171-176 (2002).
570. **02MO1076:** MOTTA N., ROSEI F., SGARLATA A., CAPELLINI G., MOBILIO S., BOSCHERINI F., “Evolution of the intermixing process in Ge/Si(111) self-assembled islands”, *Materials Science and Engineering B* **88**, 264-268 (2002).
571. **02FR1077:** FRONTERA C., GARCIA-MUÑOZ J.L., ARANDA M.A.G., RITTER C., LLOBET A., RESPAUD M., VANACKEN J., “Low-temperature charge and magnetic order of Bi_{0.5}Sr_{0.5}MnO₃”, *Physical Review B* **64**, 054401-1-054401-8 (2001).
572. **02AL1078:** ALONSO J.A., MARTINEZ-LOPE M.J., CASAIS M.T., GARCIA-MUÑOZ J.L., FERNANDEZ-DIAZ M.T., ARANDA M.A.G., “High-temperature structural evolution of RNiO₃ (R= Ho, Y, Er, Lu) perovskites: Charge disproportionation and electronic localization”, *Physical Review B* **64**, 094102-1-094102-10 (2001).
573. **02GA1079:** GARCIA-MUÑOZ J.L., FRONTERA C., ARANDA M.A.G., LLOBET A., RITTER C., “High-temperature orbital and charge ordering in Bi_{1/2}Sr_{1/2}MnO₃”, *Physical Review B* **63**, 064415-1-064415-4 (2001).
574. **02VA1081:** VALIGI M., GAZZOLI D., PETTITI I., MATTEI G., COLONNA S., DE ROSSI S., FERRARIS G., “WO_x/ZrO₂ catalysts Part. I Preparation, bulk and surface characterization”, *Applied Catalysis A* **231**, 159-172 (2002).
575. **02CA1082:** CARR R., JHOTI H., “Structure-based screening of low-affinity compounds”, *Drug Discovery Today* **7**, 522-527 (2002).
576. **02TU1083:** TUROS A., GACA J., WOJCIK M., STONERT A., GROETZSCHEL R., “Strain and compositional profile determination in ion bombarded heterostructures by the complementary use of RBS/channeling and high resolution X-ray diffraction”, *Nuclear Instruments and Methods in Physics Research B* **190**, 565-569 (2002).
577. **02WI1084:** WINTER R., “Synchrotron X-ray and neutron small-angle scattering of lyotropic lipid mesophases, model biomembranes and proteins in solution at high pressure”, *Biochimica et Biophysica Acta* **1595**, 160-184 (2002).
578. **02PI1085:** PILLINGER M., GONÇALVES I.S., LOPES A.D., FERREIRA P., ROCHA J., ZHANG G., SCHÄFER M., NUYKEN O., KÜHN F.E., “Mesoporous silica grafted with multiply bonded dimolybdenum cations: XAFS analysis and catalytic activity in cyclopentadiene polymerisation”, *Physical Chemistry - Chemical Physics* **4**, 696-702 (2002).
579. **02UN1087:** UNGAR T., MARTINETTO P., RIBARIK G., DOORYHEE E., WALTER P., ANNE M., “Revealing the powdering methods of black makeup in Ancient Egypt by fitting microstructure based Fourier coefficients to the whole X-ray diffraction profiles of galena”, *Journal of Applied Physics* **91**, 2455-2465 (2002).
580. **02KE1088:** KENNEDY A.R., SMITH W.E., TACKLEY D.R., DAVID W.I.F., SHANKLAND K., BROWN B., TEAT S.J., “Tetraaryl biphenyl diamine hole transport materials: A structural study utilizing both single crystal and high resolution powder diffraction”, *Journal of Materials Chemistry* **12**, 168-172 (2002).
581. **02PA1091:** PANKHURST Q.A., COHEN N.S., FERNANDEZ BARQUIN L., GIBBS M.R.J., SMIRNOV G.V., “Moment canting and structural anisotropy in amorphous alloys: Experiments using synchrotron Mössbauer radiation”, *Journal of Non-Crystalline Solids* **287**, 81-87 (2001).
582. **02PE1092:** PETTITI I., BOTTO I.L., CABELLO C.I., COLONNA S., FATICANTI M., MINELLI G., PORTA P., THOMAS H.J., “Anderson-type heteropolyoxomolybdates in catalysis 2. EXAFS study on γ -Al₂O₃ - supported Mo, Co and Ni sulfided phases as HDS catalysts”, *Applied Catalysis A* **220**, 113-121 (2001).
583. **02RU1093:** RUBATAT L., ROLLET A.L., GEBEL G., DIAT O., “Evidence of elongated polymeric aggregates in Nafion”, *Macromolecules* **35**, 4050-4055 (2002).
584. **02VI1095:** VILFAN I., DEUTSCH T., LANÇON F., RENAUD G., “Structure determination of the (3√3×3√3) reconstructed α -Al₂O₃ (0001)”, *Surface Science* **505**, L215-L221 (2002).

585. **02HE1096:** HERRES N., KIRSTE L., OBLOH H., KÖHLER K., WAGNER J., KOIDL P., “X-ray determination of the composition of partially strained group-III nitride layers using the Extended Bond Method”, *Materials Science and Engineering B* **91-92**, 425-432 (2002).
586. **02HO1097:** HOSOKAWA S., KAWAKITA Y., PILGRIM W.C., SINN H., “Studies of collective dynamics in liquid Ge over a wide temperature range using inelastic X-ray scattering technique”, *Physica B* **316-317**, 610-612 (2002).
587. **02DI1098:** DILLMANN P., BALASUBRAMANIAM R., BERANGER G., “Characterization of protective rust on ancient Indian iron using microprobe analyses”, *Corrosion Science* **44**, 2231-2242 (2002).
588. **02HA1099:** HAERING C.H., LÖWE J., HOCHWAGEN A., NASMYTH K., “Molecular architecture of SMC proteins and the Yeast Cohesin Complex”, *Molecular Cell* **9**, 773-788 (2002).
589. **02LE1100:** LENGELER B., SCHROER C.G., BENNER B., GERHARDUS A., GÜNZLER T.F., KUHLMANN M., MEYER J., ZIMPRICH C., “Parabolic refractive X-ray lenses”, *Journal of Synchrotron Radiation* **9**, 119-124 (2002).
590. **02SA1101:** SANCHEZ M.C., GARCIA J., BLASCO J., SUBIAS G., PEREZ-CACHO J., “Local electronic and geometrical structure of $\text{LaNi}_{1-x}\text{Mn}_x\text{O}_{3+\delta}$ perovskites determined by X-ray absorption spectroscopy”, *Physical Review B* **65**, 144409-1-144409-9 (2002).
591. **02RO1102:** ROTH M., CARPENTIER P., KAIKATI O., JOLY J., CHARRAULT P., PIROCCHI M., KAHN R., FANCHON E., JACQUAMET L., BOREL F., BERTONI A., ISRAEL-GOUY P., FERRER J.L., “FIP: A highly automated beamline for multiwavelength anomalous diffraction experiments”, *Acta Crystallographica D* **58**, 805-814 (2002).
592. **02AL1103:** ALLEN J.W., ARONSON M., BOEBINGER G.S., BROHOLM C.L., COOPER S.L., CROW J.E., HAMMEL P.C., LANDER G., “Future probes in materials science”, *Physica B* **318**, 12-23 (2002).
593. **02EV1104:** EVANS J., NEWTON M.A., “Towards a structure – activity relationship for oxide supported metals”, *Journal of Molecular Catalysis A* **182-183**, 351-357 (2002).
594. **02BL1105:** BLANCO A.G., SOLA M., GOMIS-RÜTH F.X., COLL M., “Tandem DNA recognition by PhoB, a two-component signal transduction transcriptional activator”, *Structure* **10**, 701-713 (2002).
595. **02PE1106:** PESCE A., NARDINI M., DEWILDE S., GEUENS E., YAMAUCHI K., ASCENZI P., RIGGS A.F., MOENS L., BOLOGNESI M., “The 109 residue nerve tissue minihemoglobin from *Cerebratulus lacteus* highlights striking structural plasticity of the α -helical globin fold”, *Structure* **10**, 725-735 (2002).
596. **02DE1107:** DERIVAZ M., NOE P., JALABERT D., ROUVIERE J.L., BUTTARD D., SOTTA D., BARSKI A., “Epitaxial growth of germanium dots on Si(001) surface covered by a very thin silicon nitride layer”, *Microelectronic Engineering* **61-62**, 643-649 (2002).
597. **02BO1108:** BORD S., CLEMENT A., LECOMTE J.C., MARMEGGI J.C., “An X-ray tomography facility for I.C. industry at STMicroelectronics Grenoble”, *Microelectronic Engineering* **61-62**, 1069-1075 (2002).
598. **02DE1109:** DEN HARTOG P., MOOG E., BENSON C., ERDMANN M., LUMPKIN A., MAKAROV O., PETRA M., TIEMAN B., TRAKHTENBERG E., WIEMERSLAGE G., “UV-VUV diagnostics for the Advanced Photon Source SASE FEL”, *Nuclear Instruments and Methods in Physics Research A* **483**, 407-411 (2002).
599. **02GR1110:** GROLL M., NAZIF T., HUBER R., BOGYO M., “Probing structural determinants distal to the site of hydrolysis that control substrate specificity of the 20S proteasome”, *Chemistry and Biology* **9**, 655-662 (2002).
600. **02SH1111:** SHILO D., ZOLOTROYABKO E., “Visualization of surface acoustic wave scattering by dislocations”, *Ultrasonics* **40**, 921-925 (2002).
601. **02MU1112:** MÜLLER G., BIRKMANN B., “Optimization of VGF-growth of GaAs crystals by the aid of numerical modelling”, *Journal of Crystal Growth* **237-239**, 1745-1751 (2002).
602. **02FR1113:** FRUCHART O., RENAUD G., DEVILLE J.P., BARBIER A., SCHEURER F., KLAUA M., BARTHEL J., NOBLET M., ULRICH O., MANE-MANE J., KIRSCHNER J., “Self-organized growth of nanosized flat dots and vertical magnetic Co pillars on Au(111)”, *Journal of Crystal Growth* **237-239**, 2035-2040 (2002).
603. **02GI1114:** GIBBS D., HILL J.P., VETTIER C., “New directions in X-ray magnetic scattering”, In: "Third - Generation Hard X-Ray Synchrotron Radiation Sources: Source Properties, Optics, and Experimental Techniques" MILLS D.M. (Ed.) (John Wiley & Sons, Inc, 2002) pp. 267-310.
604. **02RA1115:** RAUCHS G., PREUSS M., WITHERS P.J., “Micromechanical analysis of internal stress development during single-fibre fragmentation testing of Ti/SiC_f ”, *Acta Materialia* **50**, 2477-2490 (2002).
605. **02CO1116:** COLONNA S., ARCIPRETE F., BALZAROTTI A., FANFONI M., DE CRESCENZI M., MOBILIO S., “In situ X-ray absorption measurements of the Cu/MgO(001) interface”, *Surface Science* **512**, L341-L345 (2002).

606. **02DA1117:** DAUPHIN Y., “Comparison of the soluble matrices of the calcitic prismatic layer of *Pinna nobilis* (Mollusca, Bivalvia, Pteriomorpha)”, *Comparative Biochemistry and Physiology Part A* **132**, 577-590 (2002).
607. **02MI1118:** MICHEL J.P., LACAZE E., ALBA M., GOLDMANN M., RIEUTORD F., “Physisorption of 4-*n*-octyl-4'-cyanobiphenyl (8CB) molecules on MoS₂: Interpretation of pairing phenomenon”, *Surface Science* **507-510**, 374-380 (2002).
608. **02FR1119:** FRONTERA C., GARCIA-MUÑOZ J.L., LLOBET A., ARANDA M.A.G., RODRIGUEZ-CARVAJAL J., RESPAUD M., BROTO J.M., RAQUET B., RAKOTO H., GOIRAN M., “Spin state transition: The origin of structural, magnetic and metal-insulator transitions in GdBaCo₂O_{5+δ} ($\delta \approx 0.5$)”, *Journal of Magnetism and Magnetic Materials* **242-245**, 751-753 (2002).
609. **02GA1120:** GARCIA-MUÑOZ J.L., FRONTERA C., ARANDA M.A.G., RITTER C., LLOBET A., RANNO L., RESPAUD M., VANACKEN J., BROTO J.M., “Electronic and magnetic transitions in Bi-Sr-Mn-O oxides: High temperature charge-ordering”, *Journal of Magnetism and Magnetic Materials* **242-245**, 645-647 (2002).
610. **02DI1121:** DIAZ J., VALVIDARES S.M., MORALES R., ALAMEDA J.M., “Study of the magnetic anisotropy of amorphous Fe_{1-x}Si_x deposited by magnetron sputtering”, *Journal of Magnetism and Magnetic Materials* **242-245**, 166-168 (2002).
611. **02LA1122:** LANDER G.H., “Magnetic scattering with synchrotrons: New developments”, *Journal of Magnetism and Magnetic Materials* **242-245**, 3-8 (2002).
612. **02HO1123:** HOLLOWAY L., LAIDLER H., HUGHES T., TELLING N.D., LINVILLE E., MAO S., KIEF M.T., “Synchrotron X-ray diffraction measurements of the FCC/FCT phase transformation in PtMnCr pinning layers”, *Journal of Magnetism and Magnetic Materials* **242-245**, 1112-1114 (2002).
613. **02DA1124:** DAVIES T.G., PRATT D.J., ENDICOTT J.A., JOHNSON L.N., NOBLE M.E.M., “Structure-based design of cyclin-dependent kinase inhibitors”, *Pharmacology & Therapeutics* **93**, 125-133 (2002).
614. **02JO1125:** JOHNSON L.N., DE MOLINER E., BROWN N.R., SONG H., BARFORD D., ENDICOTT J.A., NOBLE M.E.M., “Structural studies with inhibitors of the cell cycle regulatory kinase cyclin-dependent protein kinase 2”, *Pharmacology & Therapeutics* **93**, 113-124 (2002).
615. **02BE1126:** BETTI M.G., MAGNANO E., SANCROTTI M., BORGATTI F., FELICI R., MARIANI C., SAUVAGE-SIMKIN M., “Growth morphology of (1 x 2) α -Sn(100): A surface diffraction study”, *Surface Science* **507-510**, 335-339 (2002).
616. **02KR1127:** KROP K., “Magnetism of frustrated GdMn₂”, *Physica B* **319**, 9-16 (2002).
617. **02TI1128:** TIESZEN S.R., O'HERN T.J., SCHEFER R.W., WECKMAN E.J., BLANCHAT T.K., “Experimental study of the flow field in and around a one meter diameter methane fire”, *Combustion and Flame* **129**, 378-391 (2002).
618. **02GR1129:** GRIZZETTI R., ARTIOLI G., “Kinetics of nucleation and growth of zeolite LTA from clear solution by in situ and ex situ XRPD”, *Microporous and Mesoporous Materials* **54**, 105-112 (2002).
619. **02ST1130:** STASSEN A.F., DOVA E., ENSLING J., SCHENK H., GÜTLICH P., HAASNOOT J.G., REEDIJK J., “Spin crossover in hexakis(1-(2-chloroethyl)-tetrazole)iron(II) complexes; synthesis and magnetic properties”, *Inorganica Chimica Acta* **335**, 61-68 (2002).
620. **02KI1131:** KINOSHITA T., “Application and future of photoelectron spectromicroscopy”, *Journal of Electron Spectroscopy and Related Phenomena* **124**, 175-194 (2002).
621. **02PI1132:** PICKLES L.M., ROE S.M., HEMINGWAY E.J., STIFANI S., PEARL L.H., “Crystal structure of the C-terminal WD40 repeat domain of the human Groucho/TLE1 transcriptional corepressor”, *Structure* **10**, 751-761 (2002).
622. **02RO1134:** ROUJEINIKOVA A., BALDOCK C., SIMON W.J., GILROY J., BAKER P.J., STUITJE A.R., RICE D.W., SLABAS A.R., RAFFERTY J.B., “X-ray crystallographic studies on butyryl-ACP reveal flexibility of the structure around a putative acyl chain binding site”, *Structure* **10**, 825-835 (2002).
623. **02DA1136:** DALBA G., FORNASINI P., ROCCA F., MONTI F., “EXAFS studies of the local thermal expansion in borate glasses”, *Journal of Non-Crystalline Solids* **293-295**, 93-99 (2001).
624. **02DE1141:** DENNING M.S., DENNIS T.J.S., ROSSEINSKY M.J., SHINOHARA H., “K_{3+δ}C₈₄. Higher fullerene analogues of the A₃C₆₀ superconductors”, *Chemistry of Materials* **13**, 4753-4759 (2001).
625. **02RE1142:** RESPAUD M., FRONTERA C., GARCIA-MUÑOZ J.L., ARANDA M.A.G., RAQUET B., BROTO J.M., RAKOTO H., GOIRAN M., LLOBET A., RODRIGUEZ-CARVAJAL J., “Magnetic and magnetotransport properties of GdBaCo₂O_{5+δ}: A high magnetic-field study”, *Physical Review B* **64**, 214401-1-214401-7 (2001).

626. **02FR1143:** FRONTERA C., GARCIA-MUÑOZ J.L., LLOBET A., ARANDA M.A.G., “Selective spin-state switch and metal-insulator transition in $\text{GdBaCo}_2\text{O}_{5.5}$ ”, *Physical Review B* **65**, 180405-1-180405-4 (2002).
627. **02HA1144:** HAYWARD M.A., CUSSEN E.J., CLARIDGE J.B., BIERINGER M., ROSSEINSKY M.J., KIELY C.J., BLUNDELL S.J., MARSHALL I.M., PRATT F.L., “The hydride anion in an extended transition metal oxide array: $\text{LaSrCoO}_3\text{H}_{0.7}$ ”, *Science* **295**, 1882-1884 (2002).
628. **02CI1146:** CIMINO S., COLONNA S., DE ROSSI S., FATICANTI M., LISI L., PETTITI I., PORTA P., “Methane combustion and CO oxidation on zirconia-supported La, Mn oxides and LaMnO_3 perovskite”, *Journal of Catalysis* **205**, 309-317 (2002).
629. **02PI1147:** PILLINGER M., NUNES C.D., VAZ P.D., VALENTE A.A., GONÇALVES I.S., RIBEIRO-CLARO P.J.A., ROCHA J., CARLOS L.D., KÜHN F.E., “Immobilisation of rhodium acetonitrile complexes in ordered mesoporous silica”, *Physical Chemistry - Chemical Physics* **4**, 3098-3105 (2002).
630. **02NU1148:** NUNES C.D., VALENTE A.A., PILLINGER M., FERNANDES A.C., ROMÃO C.C., ROCHA J., GONÇALVES I.S., “MCM-41 functionalized with bipyridyl groups and its use as a support for oxomolybdenum(VI) catalysts”, *Journal of Materials Chemistry* **12**, 1735-1742 (2002).
631. **02RA1149:** RAINHO J.P., PILLINGER M., CARLOS L.D., RIBEIRO S.J.L., ALMEIDA R.M., ROCHA J., “Local Er(III) environment in luminescent titanosilicates prepared from microporous precursors”, *Journal of Materials Chemistry* **12**, 1162-1168 (2002).
632. **02MA1150:** MARTINETTO P., ANNE M., DOORYHEE E., WALTER P., TSOUCARIS G., “Synthetic hydrocerussite, $2\text{PbCO}_3\cdot\text{Pb}(\text{OH})_2$, by X-ray powder diffraction”, *Acta Crystallographica C* **58**, i82-i84 (2002).
633. **02BE1151:** BENFATTO M., D'ANGELO P., DELLA LONGA S., PAVEL N.V., “Evidence of distorted fivefold coordination of the Cu^{2+} aqua ion from an X-ray-absorption spectroscopy quantitative analysis”, *Physical Review B* **65**, 174205-1-174205-5 (2002).
634. **02MA1153:** MARGIOLAKI I., MARGADONNA S., PRASSIDES K., ASSIMOPOULOS S., MELETOV K.P., KOUROUKLIS G.A., DENNIS T.J.S., SHINOHARA H., “High pressure study of the C_{84} fullerene”, *Physica B* **318**, 372-377 (2002).
635. **02BE1154:** A BECCARA S., DALBA G., FORNASINI P., GRISENTI R., SANSON A., ROCCA F., “Local thermal expansion in a cuprite structure: The case of Ag_2O ”, *Physical Review Letters* **89**, 025503-1-025503-4 (2002).
636. **02BR1155:** BROWNE M.T., CHARALAMBOUS P., BURGE R.E., YUAN X.C., “Combined microscope for scanning X-ray transmission and surface topography”, *Ultramicroscopy* **92**, 221-232 (2002).
637. **02VI1156:** VICENS Q., WESTHOF E., “Crystal structure of a complex between the aminoglycoside tobramycin and an oligonucleotide containing the ribosomal decoding A site”, *Chemistry & Biology* **9**, 747-755 (2002).
638. **02KO1157:** KOUZNETSOV V., LAPIK A., CHURIKOVA S., GIROLAMI B., KARAPETIANTZ D., MALYUKIN Y., NEDOREZOV V., TURINGE A., VOROBIEV Y., ABRAMOV V., D'ANGELO A., MORICCIANI D., NICOLETTI L., RANYUK Y., SCHAEFER C., “A large acceptance lead-scintillator time-of-flight wall for neutral and charged particles”, *Nuclear Instruments and Methods in Physics Research A* **487**, 396-406 (2002).
639. **02LI1158:** LI J., WILLIAMS B.L., HAIRE L.F., GOLDBERG M., WILKER E., DUROCHER D., YAFFE M.B., JACKSON S.P., SMERDON S.J., “Structural and functional versatility of the FHA domain in DNA-damage signaling by the tumor suppressor kinase Chk2”, *Molecular Cell* **9**, 1045-1054 (2002).
640. **02TA1159:** TAIBI A., BALDELLI P., TUFFANELLI A., GAMBACCINI M., “Comment on “Perspective of medical X-ray imaging””, *Nuclear Instruments and Methods in Physics Research A* **487**, 685-687 (2002).
641. **02YA1160:** YANG J., CRON P., THOMPSON V., GOOD V.M., HESS D., HEMMINGS B.A., BARFORD D., “Molecular mechanism for the regulation of protein kinase B/Akt by hydrophobic motif phosphorylation”, *Molecular Cell* **9**, 1227-1240 (2002).
642. **02PR1161:** PREUSS M., WITHERS P.J., MAIRE E., BUFFIERE J.Y., “SiC single fibre full-fragmentation during straining in a Ti-6Al-4V matrix studied by synchrotron X-rays”, *Acta Materialia* **50**, 3175-3190 (2002).
643. **02DU1162:** DUPUY L., BLANDIN J.J., “Damage sensitivity in a commercial Al alloy processed by equal channel angular extrusion”, *Acta Materialia* **50**, 3251-3264 (2002).
644. **02OU1163:** OUBRIDGE C., KUGLSTATTER A., JOVINE L., NAGAI K., “Crystal structure of SRP19 in complex with the S domain of SRP RNA and its implication for the assembly of the signal recognition particle”, *Molecular Cell* **9**, 1251-1261 (2002).

645. **02NI1164:** NICHOLS R.J., NOUAR T., LUCAS C.A., HAISS W., HOFER W.A., “Surface relaxation and surface stress of Au(111)”, *Surface Science* **513**, 263-271 (2002).
646. **02LA1165:** LACAZE E., ALBA M., GOLDMANN M., MICHEL J.P., RIEUTORD F., “Adsorbed organic monolayers on crystalline substrate: The example of 8CB on MoS₂”, *Applied Surface Science* **175-176**, 337-343 (2001).
647. **02NU1166:** NUNES C.D., PILLINGER M., VALENTE A.A., GONÇALVES I.S., ROCHA J., FERREIRA P., KÜHN F.E., “Synthesis and characterization of methyltrioxorhenium (VII) immobilized in bipyridyl-functionalized mesoporous silica”, *European Journal of Inorganic Chemistry*, 1100-1107 (2002).
648. **02DA1167:** DALBA G., FORNASINI P., GRISENTI R., ROCCA F., CHAMBOULEYRON I., “Local order of Sb and Bi dopants in hydrogenated amorphous germanium thin films studied by extended X-ray absorption fine structure”, *Applied Physics Letters* **81**, 625-627 (2002).
649. **02AB1168:** ABRANTES M., VALENTE A., PILLINGER M., GONÇALVES I.S., ROCHA J., ROMÃO C.C., “Organotin–oxometalate coordination polymers as catalysts for the epoxidation of olefins”, *Journal of Catalysis* **209**, 237-244 (2002).
650. **02TA1169:** TAMURA S., YASUMOTO M., MIHARA T., KAMIJO N., SUZUKI Y., AWAJI M., TAKEUCHI A., TAKANO H., HANDA K., “Multilayer Fresnel zone plate for high-energy X-ray by DC sputtering deposition”, *Vacuum* **66**, 495-499 (2002).
651. **02ME1170:** MEDEN A., MCCUSKER L.B., BAERLOCHER C., RAJIC N., KAUCIC V., “Rietveld refinement of a chabazite-like aluminophosphate containing a [Ni(1,2-diaminoethane)₂O₂]²⁻ complex bridge”, *Microporous and Mesoporous Materials* **47**, 269-274 (2001).
652. **02FR1171:** FREY F., WEIDNER E., “Diffraction by domains in decagonal Al–Co–Ni quasicrystals”, *Journal of Alloys and Compounds* **342**, 105-109 (2002).
653. **02FR1173:** FREY F., WEIDNER E., HRADIL K., DE BOISSIEU M., LETOUBLON A., MCINTYRE G., CURRAT R., TSAI A.P., “Temperature dependence of the 8-Å superstructure in decagonal Al–Co–Ni”, *Journal of Alloys and Compounds* **342**, 57-64 (2002).
654. **02BO1174:** DE BOISSIEU M., TAKAKURA H., BLETRY M., GUO J.Q., TSAI A.P., “Phason fluctuations in i-AIPdRe and i-CdYb phases”, *Journal of Alloys and Compounds* **342**, 265-270 (2002).
655. **02GR1175:** GRENIER S., PROIETTI M.G., RENEVIER H., GONZALEZ L., GARCIA J.M., GERARD J.M., GARCIA J., “Glancing-angle diffraction anomalous fine structure of InAs quantum dots and quantum wires”, *Journal of Synchrotron Radiation* **8**, 536-538 (2001).
656. **02TO1176:** TORMEN M., DE SALVADOR D., DRIGO A.V., ROMANATO F., BOSCHERINI F., MOBILIO S., “Lattice distortion in In_xGa_{1-x}As/InP epitaxial films: A second- and third-shell XAFS study”, *Physical Review B* **63**, 115326-1-115326-10 (2001).
657. **02BO1178:** BOSCHERINI F., LANTIER R., RIZZI A., D'ACAPITO F., MOBILIO S., “Growth at GaN/AlN heterostructures: A local view”, *Materials Science and Engineering B* **86**, 225-227 (2001).
658. **02RE1179:** RENOUPREZ A., ROUSSET J.L., CADROT A.M., SOLDI Y., STIEVANO L., “Structure and catalytic activity of palladium–platinum aggregates obtained by laser vaporisation of bulk alloys”, *Journal of Alloys and Compounds* **328**, 50-56 (2001).
659. **02RO1180:** ROESSLI B., STAUB U., AMATO A., HERLACH D., PATTISON P., SABLINA K., PETRAKOVSKII G.A., “Magnetic phase transitions in the double spin-chains compound LiCu₂O₂”, *Physica B* **296**, 306-311 (2001).
660. **02JA1181:** JAUCH W., REEHUIS M., BLEIF H.J., KUBANEK F., PATTISON P., “Crystallographic symmetry and magnetic structure of CoO”, *Physical Review B* **64**, 052102-1-052102-3 (2001).
661. **02BE1182:** BENFIELD R.E., GRANDJEAN D., DORE J.C., WU Z., KRÖLL M., SAWITOWSKI T., SCHMID G., “Structure of metal nanowires in nanoporous alumina membranes studied by EXAFS and X-ray diffraction”, *European Physical Journal D* **16**, 399-402 (2001).
662. **02TE1183:** TEDESCO C., DINNEBIER R.E., OLBRICH F., VAN SMAALEN S., “Disordered crystal structure of pentamethylcyclopentadienylsodium as seen by high-resolution X-ray powder diffraction”, *Acta Crystallographica B* **57**, 673-679 (2001).
663. **02MA1184:** MARTURANO P., DROZDOVA L., PIRNGRUBER G.D., KOGELBAUER A., PRINS R., “The mechanism of formation of the Fe species in Fe/ZSM-5 prepared by CVD”, *Physical Chemistry - Chemical Physics* **3**, 5585-5595 (2001).

664. **02LU1185:** LUCAS C.A., “Surface relaxation at the metal/electrolyte interface”, *Electrochimica Acta* **47**, 3065-3074 (2002).
665. **02WE1186:** WECK G., LOUBEYRE P., LETOULLEC R., “Observation of structural transformations in metal oxygen”, *Physical Review Letters* **88**, 035504-1-035504-4 (2002).
666. **02FI1187:** FIQUET G., “Mineral phases of the earth's mantle”, *Zeitschrift für Kristallographie* **216**, 248-271 (2001).
667. **02SO1188:** SOLDO Y., SIBERT E., TOURILLON G., HAZEMANN J.L., LEVY J.P., ABERDAM D., FAURE R., DURAND R., “In situ X-ray absorption spectroscopy study of copper under potential deposition on Pt(111): Role of the anions on the Cu structural arrangement”, *Electrochimica Acta* **47**, 3081-3091 (2002).
668. **02PI1189:** PINHEIRO J.P., SCHOULER M.C., DOORYHEE E., “In situ X-ray diffraction study of carbon nanotubes and filaments during their formation over Co/Al₂O₃ catalysts”, *Solid State Communications* **123**, 161-166 (2002).
669. **02DE1190:** DELLA LONGA S., ARCOVITO A., GIRASOLE M., HAZEMANN J.L., BENFATTO M., “Quantitative analysis of X-ray absorption near edge structure data by a full multiple scattering procedure: The Fe-CO geometry in photolyzed carbonmonoxy-myoglobin single crystal”, *Physical Review Letters* **87**, 155501-1-155501-4 (2001).
670. **02BU1191:** BURTON I. D., HARGREAVES J.S.J., NICHOLSON D.G., NILSEN M.H., STOKENHUBER M., “An X-ray absorption study on copper-containing AlPO₄-5 for selective catalytic reduction of NO_x by propene”, *Journal of Materials Chemistry* **11**, 1441-1446 (2001).
671. **02SO1193:** SOLOZHENKO V.L., “*In situ* synchrotron X-ray diffraction studies of HP-HT synthesis of superhard phases in the B-C-N system”, *ESRF Newsletter*, 30-32 (2001).
672. **02LU1194:** LUO G.M., MAI Z.H., HASE T.P.A., FULTHORPE B.D., TANNER B.K., MARROWS C.H., HICKEY B.J., “Variable wavelength grazing incidence X-ray reflectivity measurements of structural changes on annealing Cu/NiFe multilayers”, *Physical Review B* **64**, 245404-1-245404-7 (2001).
673. **02BR1195:** BRINKS H.W., YARTYS V.A., HAUBACK B.C., “Crystal structure of TbNiSiD_{1.78}”, *Journal of Alloys and Compounds* **322**, 160-165 (2001).
674. **02BO1196:** BOUKARI S., BEAUREPAIRE E., BULOUE H., CARRIERE B., DEVILLE J.P., SCHEURER F., DE SANTIS M., BAUDOING-SAVOIS R., “Influence of strain on the magnetocrystalline anisotropy in epitaxial Cr/Co/Pd(111) films”, *Physical Review B* **64**, 144431-1-144431-4 (2001).
675. **02MA1198:** MARCHESINI S., FAIGEL G., TEGZE M., BELAKHOVSKY M., ULRICH O., “Imagerie à l'échelle atomique par holographie de fluorescence”, *Journal de Physique IV* **11**, Pr7-165-Pr7-169 (2001).
676. **02BR1199:** BRAICOVICH L., “Topics in the study of correlated systems with resonant inelastic X-ray scattering (RIXS) in the soft energy range”, *Journal of Electron Spectroscopy and Related Phenomena* **117-118**, 103-111 (2001).
677. **02DI1201:** DI CICCIO A., TAGLIENTI M., MINICUCCI M., FILIPPONI A., “Local structure of liquid and solid silver halides probed by XAFS”, *Journal of Synchrotron Radiation* **8**, 761-763 (2001).
678. **02VI1202:** VILA M., DE BERNABE A., PRIETO C., “EXAFS determination of the Nd³⁺ lattice position in Nd:LiNbO₃: Influence of lithium niobate stoichiometry and Mg²⁺ and Zn²⁺ co-doping”, *Journal of Alloys and Compounds* **323-324**, 331-335 (2001).
679. **02BL1203:** BLAKE G.R., PALSTRA T.T.M., REN Y., NUGROHO A.A., MENOVSKY A.A., “Transition between orbital orderings in YVO₃”, *Physical Review Letters* **87**, 245501-1-245501-4 (2001).
680. **02VA1204:** VAN DER LAAN G., “Resonant X-ray magnetic scattering has gone soft”, *Synchrotron Radiation News* **14**, 32-36 (2001).
681. **02ME1205:** METZGER T.H., MINTOVA S., BEIN T., “Nanoscale crystal orientation in silicalite-1 films studied by grazing incidence X-ray diffraction”, *Microporous and Mesoporous Materials* **43**, 191-200 (2001).
682. **02KE1206:** KEGEL I., METZGER T.H., LORKE A., PEISL J., STANGL J., BAUER G., NORDLUND K., SCHOENFELD W.V., PETROFF P.M., “Determination of strain fields and composition of self-organized quantum dots using X-ray diffraction”, *Physical Review B* **63**, 035318-1-035318-13 (2001).
683. **02BL1207:** BLUNDELL D.J., EECKHAUT G., FULLER W., MAHENDRASINGAM A., MARTIN C., “Real time SAXS/stress-strain studies of thermoplastic polyurethanes at large strains”, *Polymer* **43**, 5197-5207 (2002).
684. **02DO1208:** DOORYHEE E., HODEAU J.L., NEMOZ M., RODRIGUEZ J.A., DUBOURDIEU C., PANTOU R., ROSINA M., WEISS F., SENATEUR J.P., AUDIER M., ROUSSEL H., LINDNER J., “Modeling the diffraction profiles of CVD-grown perovskite oxide superlattices”, *Journal de Physique IV* **11**, Pr11-267-Pr11-272 (2001).

685. **02MA1209:** MARKVARDSEN A.J., DAVID W.I.F., JOHNSON J.C., SHANKLAND K., “A probabilistic approach to space-group determination from powder diffraction data”, *Acta Crystallographica A* **57**, 47-54 (2001).
686. **02VI1210:** VICENS Q., WESTHOF E., “Crystal structure of paromomycin docked into the eubacterial ribosomal decoding A site”, *Structure* **9**, 647-658 (2001).
687. **02DE1211:** DE LA TORRE A.G., BRUQUE S., CAMPO J., ARANDA M.A.G., “The superstructure of C_3S from synchrotron and neutron powder diffraction and its role in quantitative phase analyses”, *Cement and Concrete Research* **32**, 1347-1356 (2002).
688. **02CO1212:** COLONNA S., DE ROSSI S., FATICANTI M., PETTITI I., PORTA P., “XAS characterization and CO oxidation on zirconia-supported $LaFeO_3$ perovskite”, *Journal of Molecular Catalysis A* **187**, 269-276 (2002).
689. **02GU1213:** GÜNTHER S., KAULICH B., GREGORATTI L., KISKINOVA M., “Photoelectron microscopy and applications in surface and materials science”, *Progress in Surface Science* **70**, 187-260 (2002).
690. **02KO1214:** KODRE A., ARCON I., PADEZNIK GOMILSEK J., PRESEREN R., FRAHM R., “Multielectron excitations in X-ray absorption spectra of Rb and Kr”, *Journal of Physics B* **35**, 3497-3513 (2002).
691. **02PA1215:** PASTERNAK M.P., XU W.M., ROZENBERG G.K., TAYLOR R.D., HEARNE G.R., STERER E., “Pressure-induced magnetic and electronic transitions in the layered Mott insulator FeI_2 ”, *Physical Review B* **65**, 035106-1-035106-6 (2001).
692. **02HO1216:** HOLY V., STANGL J., SPRINGHOLZ G., PINCZOLITS M., BAUER G., “High-resolution X-ray diffraction from self-organized PbSe/PbEuTe quantum dot superlattices”, *Journal of Physics D: Applied Physics* **34**, A1-A5 (2001).
693. **02VA1217:** VAN DER ELSKEN J., BRAS W., MICHELSEN J., “Small-angle X-ray scattering by PVP-water mixtures”, *Journal of Applied Crystallography* **34**, 62-64 (2001).
694. **02WE1218:** WEIDNER E., FREY F., HRADIL K., “Transient ordering states in decagonal Al–Co–Ni and Al–Cu–Co–Si phases”, *Philosophical Magazine A* **81**, 2375-2389 (2001).
695. **02TE1219:** TEGZE M., FAIGEL G., “X-ray holography: Theory and experiment”, *Journal of Physics Condensed Matter* **13**, 10613-10623 (2001).
696. **02RA1220:** RAVY S., ROUZIERE S., POUGET J.P., BRAZOVSKII S., “Friedel oscillations and charge-density waves pinning in quasi-one-dimensional conductors”, *Synthetic Metals* **120**, 1075-1076 (2001).
697. **02DE1221:** DENNING M.S., WATTS I.D., MOUSSA S.M., DURAND P., ROSSEINSKY M.J., TANIGAKI K., “Close-packed C_{70}^{3-} phases – synthesis, structure, and electronic properties”, *Journal of the American Chemical Society* **124**, 5570-5580 (2002).
698. **02DA1222:** D'ANGELO P., PAVEL N.V., “Complete spectrum of multielectron excitations at the Br K edge X-ray absorption spectra”, *Physical Review B* **64**, 233112-1-233112-4 (2001).
699. **02CO1223:** CORVAZIER L., MESSE L., SALOU C.L.O., YOUNG R.N., FAIRCLOUGH J.P.A., RYAN A.J., “Lamellar phases and microemulsions in model ternary blends containing amphiphilic block copolymers”, *Journal of Materials Chemistry* **11**, 2864-2874 (2001).
700. **02HA1224:** HAMLEY I.W., MAI S.M., RYAN A.J., FAIRCLOUGH J.P.A., BOOTH C., “Aqueous mesophases of block copolymers of ethylene oxide and 1,2-butylene oxide”, *Physical Chemistry - Chemical Physics* **3**, 2972-2980 (2001).
701. **02GR1225:** GRENIER S., PROIETTI M.G., RENEVIER H., GONZALEZ L., GARCIA J.M., GARCIA J., “Grazing-incidence diffraction anomalous fine structure of InAs/InP(001) self-assembled quantum wires”, *Europhysics Letters* **57**, 499-505 (2002).
702. **02BA1228:** BARBIER A., MOCUTA C., RENAUD G., “*In situ* synchrotron structural studies of the growth of oxides and metals”, In: "Handbook of Thin Film Materials. Volume 2: Characterization and Spectroscopy of Thin Films" NALWA H.S. (Ed.) (Academic Press, 2002) pp. 527-596.
703. **02PA1230:** PAPAGEORGIOU T.P., HERRMANNSDÖRFER T., DINNEBIER R., MAI T., ERNST T., WUNSCH M., BRAUN H.F., “Magnetization anomalies in the superconducting state of $RuSr_2GdCu_2O_8$ and the magnetic study of Sr_2GdRuO_6 ”, *Physica C* **377**, 383-392 (2002).
704. **02VE1231:** VETTIER C., “Magnetism: Applications of synchrotron radiation”, In: "Encyclopedia of Materials: Science and Technology" (Elsevier Science, 2001) pp. 5004-5013.
705. **02DA1232:** DALGLIESH R., “Application of off-specular scattering of X-rays and neutrons to the study of soft matter”, *Current Opinion in Colloid and Interface Science* **7**, 244-248 (2002).

706. **02VO1233:** VOLBEDA A., MONTET Y., VERNEDE X., HATCHIKIAN E.C., FONTECILLA-CAMPS J.C., “High-resolution crystallographic analysis of *Desulfovibrio fructosovorans* [NiFe] hydrogenase”, *International Journal of Hydrogen Energy* **27**, 1449-1461 (2002).
707. **02BA1234:** BARTALINI O., BELLINI V., BOCQUET J.P., CAPOGNI M., CASTOLDI M., D'ANGELO A., DIDELEZ J.P., DI SALVO R., FANTINI A., GERVINO G., GHIO F., GIROLAMI B., GUIDAL M., HOURANY E., KOUZNETSOV V., KUNNE R., LAPIK A., LEVI SANDRI P., LLERES A., MORICCIANI D., NEDOREZOV V., NICOLETTI L., REBREYEND D., RENARD F., ROUDNEV N., SCHAERF C., SPERDUTO M., SUTERA M., TURINGE A., ZUCCHIATTI A., ARNDT R., BRISCOE W., STRAKOVSKY I., WORKMAN R., “Precise measurement of Σ beam asymmetry for positive pion photoproduction on the proton from 800 to 1500 MeV”, *Physics Letters B* **544**, 113-120 (2002).
708. **02HU1235:** HUNTE C., SOLMAZ S., LANGE C., “Electron transfer between yeast cytochrome *bc*₁ complex and cytochrome *c*: A structural analysis”, *Biochimica et Biophysica Acta* **1555**, 21-28 (2002).
709. **02OC1236:** OCHOA W.F., CORBALAN-GARCIA S., ERITJA R., RODRIGUEZ-ALFARO J.A., GOMEZ-FERNANDEZ J.C., FITA I., VERDAGUER N., “Additional binding sites for anionic phospholipids and calcium ions in the crystal structures of complexes of the C2 domain of protein kinase Ca”, *Journal of Molecular Biology* **320**, 277-291 (2002).
710. **02HA1237:** HAIDER S., PARKINSON G.N., NEIDLE S., “Crystal structure of the potassium form of an *Oxytricha nova* G-quadruplex”, *Journal of Molecular Biology* **320**, 189-200 (2002).
711. **02SV1238:** SVENSSON-EK M., ABRAMSON J., LARSSON G., TÖRNROTH S., BRZEZINSKI P., IWATA S., “The X-ray crystal structures of wild-type and EQ(I-286) mutant cytochrome *c* oxidases from *Rhodobacter sphaeroides*”, *Journal of Molecular Biology* **321**, 329-339 (2002).
712. **02FE1239:** FERNANDEZ-TORNERO C., GARCIA E., LOPEZ R., GIMENEZ-GALLEGO G., ROMERO A., “Two new crystal forms of the choline-binding domain of the major pneumococcal autolysin: Insights into the dynamics of the active homodimer”, *Journal of Molecular Biology* **321**, 163-173 (2002).
713. **02AN1240:** ANDERSEN O.A., FLATMARK T., HOUGH E., “Crystal structure of the ternary complex of the catalytic domain of human phenylalanine hydroxylase with tetrahydrobiopterin and 3-(2-Thienyl)-L-alanine, and its implications for the mechanism of catalysis and substrate activation”, *Journal of Molecular Biology* **320**, 1095-1108 (2002).
714. **02EI1241:** EICHMAN B.F., ORTIZ-LOMBARDIA M., AYMAMI J., COLL M., HO P.S., “The inherent properties of DNA four-way junctions: Comparing the crystal structures of Holliday junctions”, *Journal of Molecular Biology* **320**, 1037-1051 (2002).
715. **02GU1242:** GUILLOTEAU J.P., MATHIEU M., GIGLIONE C., BLANC V., DUPUY A., CHEVRIER M., GIL P., FAMECHON A., MEINNEL T., MIKOL V., “The crystal structures of four peptide deformylases bound to the antibiotic actinonin reveal two distinct types: A platform for the structure-based design of antibacterial agents”, *Journal of Molecular Biology* **320**, 951-962 (2002).
716. **02BA1243:** BARBOSA PEREIRA P.J., SEGURA-MARTIN S., OLIVA B., FERRER-ORTA C., AVILES F.X., COLL M., GOMIS-RÜTH F.X., VENDRELL J., “Human procarboxypeptidase B: Three-dimensional structure and implications for thrombin-activatable fibrinolysis inhibitor (TAFI)”, *Journal of Molecular Biology* **321**, 537-547 (2002).
717. **02CA1244:** CALDERONE V., FOLLI C., MARCHESANI A., BERNI R., ZANOTTI G., “Identification and structural analysis of a zebrafish apo and holo cellular retinol-binding protein”, *Journal of Molecular Biology* **321**, 527-535 (2002).
718. **02TR1245:** TROFFER-CHARLIER N., OGIER J., MORAS D., CAVARELLI J., “Crystal structure of the V-region of *Streptococcus mutans* antigen I/II at 2.4 Å resolution suggests a sugar preformed binding site”, *Journal of Molecular Biology* **318**, 179-188 (2002).
719. **02ES1246:** ESPOSITO L., SICA F., RAIA C.A., GIORDANO A., ROSSI M., MAZZARELLA L., ZAGARI A., “Crystal structure of the alcohol dehydrogenase from the hyperthermophilic archaeon *Sulfolobus solfataricus* at 1.85 Å resolution”, *Journal of Molecular Biology* **318**, 463-477 (2002).
720. **02WH1247:** WHITTINGHAM J.L., SCOTT D.J., CHANCE K., WILSON A., FINCH J., BRANGE J., DODSON G.G., “Insulin at pH 2: Structural analysis of the conditions promoting insulin fibre formation”, *Journal of Molecular Biology* **318**, 479-490 (2002).
721. **02KA1248:** KARLSSON A., BEHARRY Z.M., EBY D.M., COULTER E.D., NEIDLE E.L., KURTZ JR. D.M., EKLUND H., RAMASWAMY S., “X-ray crystal structure of benzoate 1,2-dioxygenase reductase from *Acinetobacter* sp. strain ADP1”, *Journal of Molecular Biology* **318**, 261-272 (2002).

722. **02GR1249:** GRISHKOVSKAYA I., AVVAKUMOV G.V., HAMMOND G.L., MULLER Y.A., “Resolution of a disordered region at the entrance of the human sex hormone-binding globulin steroid-binding site”, *Journal of Molecular Biology* **318**, 621-626 (2002).
723. **02KA1250:** KAUFMANN M., LINDNER P., HONEGGER A., BLANK K., TSCHOPP M., CAPITANI G., PLÜCKTHUN A., GRÜTTER M.G., “Crystal structure of the anti-His tag antibody 3D5 single-chain fragment complexed to its antigen”, *Journal of Molecular Biology* **318**, 135-147 (2002).
724. **02DA1251:** DALHUS B., SAARINEN M., SAUER U.H., EKLUND P., JOHANSSON K., KARLSSON A., RAMASWAMY S., BJØRK A., SYNSTAD B., NATERSTAD K., SIREVÅG R., EKLUND H., “Structural basis for thermophilic protein stability: Structures of thermophilic and mesophilic malate dehydrogenases”, *Journal of Molecular Biology* **318**, 707-721 (2002).
725. **02GU1252:** GUASCH A., ALORIA K., PEREZ R., AVILA J., ZABALA J.C., COLL M., “Three-dimensional structure of human tubulin chaperone cofactor A”, *Journal of Molecular Biology* **318**, 1139-1149 (2002).
726. **02SA1253:** SANDY J., MUSHTAQ A., KAWAMURA A., SINCLAIR J., SIM E., NOBLE M., “The structure of arylamine *N*-acetyltransferase from *Mycobacterium smegmatis* – An enzyme which inactivates the anti-tubercular drug, isoniazid”, *Journal of Molecular Biology* **318**, 1071-1083 (2002).
727. **02CO1254:** COATES L., ERSKINE P.T., CRUMP M.P., WOOD S.P., COOPER J.B., “Five atomic resolution structures of endothiapepsin inhibitor complexes: Implications for the aspartic proteinase mechanism”, *Journal of Molecular Biology* **318**, 1405-1415 (2002).
728. **02PA1255:** PAPPENBERGER G., WILSHER J.A., ROE S.M., COUNSELL D.J., WILLISON K.R., PEARL L.H., “Crystal structure of the CCT_γ apical domain: Implications for substrate binding to the eukaryotic cytosolic chaperonin”, *Journal of Molecular Biology* **318**, 1367-1379 (2002).
729. **02BO1256:** BORASTON A.B., NURIZZO D., NOTENBOOM V., DUCROS V., ROSE D.R., KILBURN D.G., DAVIES G.J., “Differential oligosaccharide recognition by evolutionarily-related β-1,4 and β-1,3 glucan-binding modules”, *Journal of Molecular Biology* **319**, 1143-1156 (2002).
730. **02BL1257:** BLANDIN J.J., GIUNCHI D., SUERY M., EVANGELISTA E., “Effect of thermal treatments on mechanical behaviour of thixoformed magnesium alloy”, *Materials Science and Technology* **18**, 333-340 (2002).
731. **02TO1258:** TÖRÖ I., BASQUIN J., TEO-DREHER H., SUCK D., “Archaeal Sm proteins form heptameric and hexameric complexes: Crystal structures of the Sm1 and Sm2 proteins from the hyperthermophile *Archaeoglobus fulgidus*”, *Journal of Molecular Biology* **320**, 129-142 (2002).
732. **02GU1259:** GUIMARÃES B.G., SOUCHON H., LYTLE B.L., WU J.H.D., ALZARI P.M., “The crystal structure and catalytic mechanism of cellobiohydrolase CelS, the major enzymatic component of the *Clostridium thermocellum* cellulosome”, *Journal of Molecular Biology* **320**, 587-596 (2002).
733. **02CA1260:** CARVALHO A.L., SANZ L., BARETTINO D., ROMERO A., CALVETE J.J., ROMÃO M.J., “Crystal structure of a prostate kallikrein isolated from stallion seminal plasma: A homologue of human PSA”, *Journal of Molecular Biology* **322**, 325-337 (2002).
734. **02BA1261:** BÄCKSTRÖM S., WOLF-WATZ M., GRUNDSTRÖM C., HÄRD T., GRUNDSTRÖM T., SAUER U.H., “The RUNX1 runt domain at 1.25 Å resolution: A structural switch and specifically bound chloride ions modulate DNA binding”, *Journal of Molecular Biology* **322**, 259-272 (2002).
735. **02SI1262:** SICHLER K., BANNER D.W., D'ARCY A., HOPFNER K.P., HUBER R., BODE W., KRESSE G.B., KOPETZKI E., BRANDSTETTER H., “Crystal structures of uninhibited factor VIIa link its cofactor and substrate-assisted activation to specific interactions”, *Journal of Molecular Biology* **322**, 591-603 (2002).
736. **02SC1266:** SCHMIDBAUER M., HANKE M., KÖHLER R., “X-ray diffuse scattering on self-organized mesoscopic structures”, *Crystal Research and Technology* **37**, 3-34 (2002).
737. **02RU1267:** RUPPRECHT K., LU J., WORTMANN G., PRZEWOZNIK J., ZUKROWSKI J., “High-pressure Mössbauer studies of magnetism in ScFe₂ and Sc_{0.4}Ti_{0.6}Fe₂ laves phases”, *Acta Physica Polonica A* **100**, 789-797 (2001).
738. **02KE1268:** KERNAVANOIS N., SANCHEZ J.P., DALMAS DE REOTIER P., YAOUANC A., “X-ray magnetic circular dichroism and Compton scattering: Application to *5f* electron systems”, *Acta Physica Polonica A* **100**, 629-645 (2001).
739. **02GA1269:** GARCIA J., SUBIAS G., “Valence state and local structure in magnetite and Ca-doped manganites”, In: “Physics in Local Lattice Distortions” OYANAGI H., BIANCONI A. (Eds.) (American Institute of Physics, 2001) pp. 357-365.

740. **02DE1271:** DESCHAMPS A., MILITZER M., POOLE W.J., “Precipitation kinetics and strengthening of a Fe–0.8wt% Cu alloy”, *ISIJ International* **41**, 196-205 (2001).
741. **02VI1272:** VINCZE L., VEKEMANS B., SZALOKI I., JANSSENS K., VAN GRIEKEN R., FENG H., JONES K.W., ADAMS F., “High resolution X-ray fluorescence micro-tomography on single sediment particles”, *Proceedings SPIE* **4503**, 240-248 (2002).
742. **02CH1275:** CHACON C., ISNARD O., BERAR J.F., “X-ray anomalous diffraction study of the crystal structure of Y(Co, Ni)₄B compounds”, *Materials Science Forum* **378-381**, 434-439 (2001).
743. **02BE1276:** BERTHON S., BARBIERI O., EHRBURGER-DOLLE F., GEISSLER E., ACHARD P., BLEY F., HECHT A.M., LIVET F., PAJONK G.M., PINTO N., RIGACCI A., ROCHAS C., “DLS and SAXS investigations of organic gels and aerogels”, *Journal of Non-Crystalline Solids* **285**, 154-161 (2001).
744. **02RI1277:** RIGACCI A., EHRBURGER-DOLLE F., GEISSLER E., CHEVALIER B., SALLEE H., ACHARD P., BARBIERI O., BERTHON S., BLEY F., LIVET F., PAJONK G.M., PINTO N., ROCHAS C., “Investigation of the multi-scale structure of silica aerogels by SAXS”, *Journal of Non-Crystalline Solids* **285**, 187-193 (2001).
745. **02EI1278:** EINARSRUD M.A., NILSEN E., RIGACCI A., PAJONK G.M., BUATHIER S., VALETTE D., DURANT M., CHEVALIER B., NITZ P., EHRBURGER-DOLLE F., “Strengthening of silica gels and aerogels by washing and aging processes”, *Journal of Non-Crystalline Solids* **285**, 1-7 (2001).
746. **02BI1280:** BIGAULT T., BOCQUET F., LABAT S., THOMAS O., RENEVIER H., “Interfacial structure in (111) Au:Ni multilayers investigated by anomalous X-ray diffraction”, *Physical Review B* **64**, 125414-1-125414-11 (2001).
747. **02RI1282:** RINDERKNECHT J., PRINZ H., KAMMLER T., BERBERICH F., ZSCHECH E., “In situ high-temperature synchrotron-radiation diffraction studies of Ni and Co–Ni silicidation processes”, *Microelectronic Engineering* **64**, 143-149 (2002).
748. **02RI1283:** RIVERO C., BOSTROM O., GERGAUD P., THOMAS O., BOIVIN P., MAZUELAS A., “In situ study of strain evolution during thin film Ti/Al(Si,Cu) reaction using synchrotron radiation”, *Microelectronic Engineering* **64**, 81-89 (2002).
749. **02GA1284:** GAO J., “On the scaling law of single bunch transverse instability threshold current vs. the chromaticity in electron storage rings”, *Nuclear Instruments and Methods in Physics Research A* **491**, 346-348 (2002).
750. **02TA1285:** TALMAN R., “Exploiting undulator radiation for X-ray interferometry”, *Nuclear Instruments and Methods in Physics Research A* **489**, 519-542 (2002).
751. **02NO1286:** NORAGER S., JENSEN K.F., BJÖRNBERG O., LARSEN S., “*E. coli* dihydroorotate dehydrogenase reveals structural and functional distinctions between different classes of dihydroorotate dehydrogenases”, *Structure* **10**, 1211-1223 (2002).
752. **02RA1287:** RAAIJMAKERS H., MACIEIRA S., DIAS J.M., TEIXEIRA S., BURSAKOV S., HUBER R., MOURA J.J.G., MOURA I., ROMÃO M.J., “Gene sequence and the 1.8 Å crystal structure of the tungsten-containing formate dehydrogenase from *Desulfovibrio gigas*”, *Structure* **10**, 1261-1272 (2002).
753. **02PR1288:** PRESTIPINO C., BERLIER G., LLABRES I XAMENA F.X., SPOTO G., BORDIGA S., ZECCHINA A., TURNES PALOMINO G., YAMAMOTO T., LAMBERTI C., “An in situ temperature dependent IR, EPR and high resolution XANES study on the NO/Cu⁺–ZSM-5 interaction”, *Chemical Physics Letters* **363**, 389-396 (2002).
754. **02GA1290:** GALLUPPI M., FROVA A., CAPIZZI M., BOSCHERINI F., FRIGERI P., FRANCHI S., PASSASEO A., “Atomic equilibrium concentrations in (InGa)As quantum dots”, *Applied Physics Letters* **78**, 3121-3123 (2001).
755. **02KA1291:** KAUFFMANN B., FAVIER F., OLRV A., BOSCHI-MULLER S., CARPENTIER P., BRANLANT G., AUBRY A., “Crystallization and preliminary X-ray diffraction studies of the peptide methionine sulfoxide reductase B domain of *Neisseria meningitidis* PILB”, *Acta Crystallographica D* **58**, 1467-1469 (2002).
756. **02MO1292:** MONTERROSO B., ALBERT A., MARTINEZ-RIPOLL M., GARCIA P., GARCIA J.L., MENENDEZ M., HERMOSO J.A., “Crystallization and preliminary X-ray diffraction studies of the complete modular endolysin from Cp-1, a phage infecting *Streptococcus pneumoniae*”, *Acta Crystallographica D* **58**, 1487-1489 (2002).
757. **02EN1293:** ENGUITA F.J., MATIAS P.M., MARTINS L.O., PLACIDO D., HENRIQUES A.O., CARRONDO M.A., “Spore-coat laccase CotA from *Bacillus subtilis*: Crystallization and preliminary X-ray characterization by the MAD method”, *Acta Crystallographica D* **58**, 1490-1493 (2002).
758. **02GO1294:** GONZALEZ B., PAJARES M.A., TOO H.P., GARRIDO F., BLUNDELL T.L., SANZ-APARICIO J., “Crystallization and preliminary X-ray study of recombinant betaine–homocysteine S-methyltransferase from rat liver”, *Acta Crystallographica D* **58**, 1507-1510 (2002).

759. **02OL1295:** OLAFSEN A., LARSSON A.K., FJELLVÅG H., HAUBACK B.C., “On the crystal structure of $Ln_2O_2CO_3$ II ($Ln=$ La and Nd)”, *Journal of Solid State Chemistry* **158**, 14-24 (2001).
760. **02FO1296:** FORNASINI P., “Study of lattice dynamics via extended X-ray absorption fine structure”, *Journal of Physics Condensed Matter* **13**, 7859-7872 (2001).
761. **02MA1297:** MARKVARDSEN A.J., DAVID W.I.F., SHANKLAND K., “A maximum-likelihood method for global-optimization-based structure determination from powder diffraction data”, *Acta Crystallographica A* **58**, 316-326 (2002).
762. **02SH1298:** SHANKLAND K., MCBRIDE L., DAVID W.I.F., SHANKLAND N., STEELE G., “Molecular, crystallographic and algorithmic factors in structure determination from powder diffraction data by simulated annealing”, *Journal of Applied Crystallography* **35**, 443-454 (2002).
763. **02HA1299:** HANZAL-BAYER M., RENAULT L., ROVERSI P., WITTINGHOFFER A., HILLIG R.C., “The complex of Arl2-GTP and PDE δ : From structure to function”, *EMBO Journal* **21**, 2095-2106 (2002).
764. **02MA1300:** MARROW T.J., CETINEL H., AL-ZALMAH M., MCDONALD S., WITHERS P.J., WALTON J., “Fatigue crack nuclei in austempered ductile cast iron”, *Fatigue and Fracture of Engineering Materials and Structures* **25**, 635-648 (2002).
765. **02HO1302:** HOLLOWAY L., LAIDLER H., TELLING N.D., WU S.Z., “Role of crystallographic structure on magnetization reversal of (1010) and (1120) textured thin film media”, *Journal of Applied Physics* **90**, 4056-4062 (2001).
766. **02ZA1304:** ZAMBON C., HOLLOWAY L., ANTEL W.J., LAIDLER H., GIRT E., HARKNESS S.D., “Crystallographic stacking faults in antiferromagnetically coupled media”, *Journal of Applied Physics* **91**, 7697-7699 (2002).
767. **02LA1305:** LAIDLER H., HOLLOWAY L., O'GRADY K., “Crystallographic defects in CoCrPt thin film media: Effect on interactions and magnetic viscosity”, *Journal of Physics D* **35**, 512-519 (2002).
768. **02BI1306:** BILLAS I.M.L., MOULINIER L., ROCHEL N., MORAS D., “Crystal structure of the ligand-binding domain of the ultraspiracle protein USP, the ortholog of retinoid X receptors in insects”, *Journal of Biological Chemistry* **276**, 7465-7474 (2001).
769. **02SI1307:** SIMONET V., CALZAVARA Y., HAZEMANN J.L., ARGOUD R., GEAYMOND O., RAOUX D., “Structure of aqueous $ZnBr_2$ solution probed by X-ray absorption spectroscopy in normal and hydrothermal conditions”, *Journal of Chemical Physics* **116**, 2997-3006 (2002).
770. **02SI1308:** SIMONET V., CALZAVARA Y., HAZEMANN J.L., ARGOUD R., GEAYMOND O., RAOUX D., “X-ray absorption spectroscopy studies of ionic association in aqueous solutions of zinc bromide from normal to critical conditions”, *Journal of Chemical Physics* **117**, 2771-2781 (2002).
771. **02CA1309:** CALZAVARA Y., SIMONET V., HAZEMANN J.L., ARGOUD R., GEAYMOND O., RAOUX D., “An X-ray absorption spectroscopy study of the pressure and temperature dependence of $ZnBr_2$ aqueous supercritical solutions”, *Journal of Synchrotron Radiation* **8**, 178-181 (2001).
772. **02MO1310:** MOSER H.O., ROSSMANITH R., “Magnetic field of superconductive in-vacuo undulators in comparison with permanent magnet undulators”, *Nuclear Instruments and Methods in Physics Research A* **490**, 403-408 (2002).
773. **02NI1311:** NICHOLSON J., NAVE C., FAYZ K., FELL B., GARMAN E., “Modelling heating effects in cryocooled protein crystals”, *Nuclear Instruments and Methods in Physics Research A* **467-468**, 1380-1383 (2001).
774. **02HE1312:** HEDOUX A., GUINET Y., DESCAMPS M., HERNANDEZ O., DEROLLEZ P., DIANOUX A.J., FOULON M., LEFEBVRE J., “A description of the frustration responsible for a polymorphism situation in triphenyl phosphite”, *Journal of Non-Crystalline Solids* **307-310**, 637-643 (2002).
775. **02LE1313:** LEVELUT C., FAIVRE A., LE PARC R., CHAMPAGNON B., HAZEMANN J.L., DAVID L., ROCHAS C., SIMON J.P., “Influence of thermal aging on density fluctuations in oxide glasses measured by small-angle X-ray scattering”, *Journal of Non-Crystalline Solids* **307-310**, 426-435 (2002).
776. **02RO1314:** ROSSI ALBERTINI V., PERFETTI P., RONCI F., REALE P., SCROSATI B., “*In situ* studies of electrodic materials in Li-ion cells upon cycling performed by very-high-energy X-ray diffraction”, *Applied Physics Letters* **79**, 27-29 (2001).
777. **02BU1315:** BUFFIERE J.Y., SAVELLI S., JOUNEAU P.H., MAIRE E., FOUGERES R., “Experimental study of porosity and its relation to fatigue mechanisms of model Al-Si7-Mg0.3 cast Al alloys”, *Materials Science and Engineering A* **316**, 115-126 (2001).

778. **02BA1316:** BABOUT L., MAIRE E., BUFFIERE J.Y., FOUGERES R., “Characterization by X-ray computed tomography of decohesion, porosity growth and coalescence in model metal matrix composites”, *Acta Materialia* **49**, 2055-2063 (2001).
779. **02MA1317:** MAIRE E., BABOUT L., BUFFIERE J.Y., FOUGERES R., “Recent results on 3D characterisation of microstructure and damage of metal matrix composites and a metallic foam using X-ray tomography”, *Materials Science and Engineering A* **319-321**, 216-219 (2001).
780. **02SC1318:** SCHLEGEL M.L., MANCEAU A., CHARLET L., CHATEIGNER D., HAZEMANN J.L., “Sorption of metal ions on clay minerals. III. Nucleation and epitaxial growth of Zn phyllosilicate on the edges of hectorite”, *Geochimica et Cosmochimica Acta* **65**, 4155-4170 (2001).
781. **02IS1319:** ISAURE M.P., LABOUDIGUE A., MANCEAU A., SARRET G., TIFFREAU C., TROCELLIER P., “Characterisation of zinc in slags originated from a contaminated sediment by coupling μ -PIXE, μ -RBS, μ -EXAFS and powder EXAFS spectroscopy”, *Nuclear Instruments and Methods in Physics Research B* **181**, 598-602 (2001).
782. **02LE1320:** LEVY C.W., BUCKLEY P.A., SEDELNIKOVA S., KATO Y., ASANO Y., RICE D.W., BAKER P.J., “Insights into enzyme evolution revealed by the structure of methylaspartate ammonia lyase”, *Structure* **10**, 105-113 (2002).
783. **02JO1321:** JORMAKKA M., TÖRNROTH S., ABRAMSON J., BYRNE B., IWATA S., “Purification and crystallization of the respiratory complex formate dehydrogenase-N from *Escherichia coli*”, *Acta Crystallographica D* **58**, 160-162 (2002).
784. **02TH1323:** THOMAZEAU K., CURIEN G., THOMPSON A., DUMAS R., BIOU V., “MAD on threonine synthase: The phasing power of oxidized selenomethionine”, *Acta Crystallographica D* **57**, 1337-1340 (2001).
785. **02YL1324:** YLÄNNE J., SCHEFFZEK K., YOUNG P., SARASTE M., “Crystal structure of the α -actinin rod reveals an extensive torsional twist”, *Structure* **9**, 597-604 (2001).
786. **02CE1327:** CEDERSTRÖM B., LUNDQVIST M., RIBBING C., “Multi-prism X-ray lens”, *Applied Physics Letters* **81**, 1399-1401 (2002).
787. **02GR1328:** GRIZOT S., FAURE J., FIESCHI F., VIGNAIS P.V., DAGHER M.C., PEBAY-PEYROULA E., “Crystal structure of the Rac1-RhoGDI complex involved in NADPH oxidase activation”, *Biochemistry* **40**, 10007-10013 (2001).
788. **02LO1329:** LORIMIER J., BERNARD F., ISNARD O., NIEPCE J.C., BERAR J.F., “Anomalous valence contrast of metal transition in nanocrystalline ferrite”, *Materials Science Forum* **378-381**, 594-599 (2001).
789. **02HO1330:** HODEAU J.L., FAVRE-NICOLIN V., BOS S., RENEVIER H., LORENZO E., BERAR J.F., “Resonant diffraction”, *Chemical Reviews* **101**, 1843-1867 (2001).
790. **02BO1331:** BORG J., “Extraterrestrial samples from low Earth orbits: Techniques for their collection and analysis”, *Planetary and Space Science* **50**, 889-894 (2002).
791. **02RA1335:** RAU J.V., ROSSI ALBERTINI V., CHILINGAROV N.S., COLONNA S., ANSEMI TAMBURINI U., “In situ time-resolved X-ray diffraction study of manganese trifluoride thermal decomposition”, *Journal of Fluorine Chemistry* **108**, 253-256 (2001).
792. **02WI1336:** WITHERS P.J., PREUSS M., WEBSTER P.J., HUGUES D.J., KORSUNSKY A.M., “Residual strain measurement by synchrotron diffraction”, *Materials Science Forum* **404-407**, 1-12 (2002).
793. **02MI1338:** MICHEL G., CHANTALAT L., DUEE E., BARBEYRON T., HENRISSAT B., KLOAREG B., DIDEBERG O., “The κ -carrageenase of *P. carrageenovora* features a tunnel-shaped active site: A novel insight in the evolution of clan-B glycoside hydrolases”, *Structure* **9**, 513-525 (2001).
794. **02GO1340:** GORDON E., FLOURET B., CHANTALAT L., VAN HEIJENOORT J., MENGIN-LECREULX D., DIDEBERG O., “Crystal structure of UDP-N-acetylmuramoyl-L-alanyl-D-glutamate: *Meso*-diaminopimelate ligase from *Escherichia Coli*”, *Journal of Biological Chemistry* **276**, 10999-11006 (2001).
795. **02DE1341:** DESSEN A., MOUZ N., GORDON E., HOPKINS J., DIDEBERG O., “Crystal structure of PBP2x from a highly penicillin-resistant *Streptococcus pneumoniae* clinical isolate. A mosaic framework containing 83 mutations”, *Journal of Biological Chemistry* **276**, 45106-45112 (2001).
796. **02MI1342:** MICHEL G., CHANTALAT L., FANCHON E., HENRISSAT B., KLOAREG B., DIDEBERG O., “The ι -carrageenase of *Alteromonas fortis*. A β -helix fold-containing enzyme for the degradation of a highly polyanionic polysaccharide”, *Journal of Biological Chemistry* **276**, 40202-40209 (2001).

797. **02SK1343:** SKOV L.K., MIRZA O., HENRIKSEN A., POTOCKI DE MONTALK G., REMAUD-SIMEON M., SARÇABAL P., WILLEMOT R.M., MONSAN P., GAJHEDE M., “Amylosucrase, a glucan-synthesizing enzyme from the α -amylase family”, *Journal of Biological Chemistry* **276**, 25273-25278 (2001).
798. **02MA1344:** MANDELMAN D., GONZALO P., LAVERGNE J.P., CORBIER C., REBOUD J.P., HASER R., “Crystallization and preliminary X-ray study of an N-terminal fragment of rat liver ribosomal P2 protein”, *Acta Crystallographica D* **58**, 668-671 (2002).
799. **02PI1345:** PIGNOL D., ADRIANO J.M., FONTECILLA-CAMPS J.C., SABATY M., “Crystallization and preliminary X-ray analysis of the periplasmic nitrate reductase (NapA–NapB complex) from *Rhodobacter sphaeroides* f. sp. *denitrificans*”, *Acta Crystallographica D* **57**, 1900-1902 (2001).
800. **02RO1346:** ROBERT X., GOTTSCHALK T.E., HASER R., SVENSSON B., AGHAJARI N., “Expression, purification and preliminary crystallographic studies of α -amylase isozyme 1 from barley seeds”, *Acta Crystallographica D* **58**, 683-686 (2002).
801. **02MA1347:** MANDELMAN D., BENTAHIR M., FELLER G., GERDAY C., HASER R., “Crystallization and preliminary X-ray analysis of a bacterial psychrophilic enzyme, phosphoglycerate kinase”, *Acta Crystallographica D* **57**, 1666-1668 (2001).
802. **02MA1351:** MAVEYRAUD L., GOLEMI-KOTRA D., ISHIWATA A., MEROUEH O., MOBASHERY S., SAMAMA J.P., “High-resolution X-ray structure of an acyl-enzyme species for the class D OXA-10 β -lactamase”, *Journal of the American Chemical Society* **124**, 2461-2465 (2002).
803. **02AN1352:** ANDRAULT D., BOLFAN-CASANOVA N., GUIGNOT N., “Equation of state of lower mantle (Al,Fe)-MgSiO₃ perovskite”, *Earth and Planetary Science Letters* **193**, 501-508 (2001).
804. **02GH1353:** GHIGNA P., MUSTARELLI P., TOMASI C., QUARTARONE E., SCAVINI M., SPEGHINI A., BETTINELLI M., “A combined nuclear magnetic resonance and X-ray absorption fine structure study on the local structures of Ge and Pb in PbO–GeO₂ glasses and their relationships with thermal properties and devitrification products”, *Journal of Physical Chemistry B* **106**, 9802-9809 (2002).
805. **02PI1354:** FILIPPONI A., GIORDANO V.M., MALVESTUTO M., “Lattice expansion and Ge solubility in the Ag_{1-x}Ge_x terminal solid solution”, *Physica Status Solidi (b)* **234**, 496-505 (2002).
806. **02BA1355:** BANSMANN J., SENZ V., METHLING R.P., RÖHLSBERGER R., MEIWES-BROER K.H., “Size effects in the temperature-dependent magnetization of iron clusters”, *Materials Science and Engineering C* **19**, 305-310 (2002).
807. **02BI1356:** BIRKEDAL H., SCHWARZENBACH D., PATTISON P., “N-Z-Pro-D-Leu using synchrotron radiation data from a very small crystal”, *Acta Crystallographica C* **57**, 975-977 (2001).
808. **02HI1357:** HILGE M., PERRAKIS A., ABRAHAMS J.P., WINTERHALTER K., PIONTEK K., GLOOR S.M., “Structure elucidation of β -mannanase: From the electron-density map to the DNA sequence”, *Acta Crystallographica D* **57**, 37-43 (2001).
809. **02BI1358:** BIRKEDAL H., SCHWARZENBACH D., PATTISON P., “Observation of uniaxial negative thermal expansion in an organic crystal”, *Angewandte Chemie International Edition English* **41**, 754-756 (2002).
810. **02TH1360:** DE THEIJE F.K., REEDIJK M.F., ARSIC J., VAN ENCKEVORT W.J.P., Vlieg E., “Atomic structure of diamond {111} surfaces etched in oxygen water vapor”, *Physical Review B* **64**, 085403-1-085403-7 (2001).
811. **02LU1361:** LUNDGREN E., ANDERSEN J.N., NYHOLM R., TORRELLES X., RIUS J., DELIN A., GRECHNEV A., ERIKSSON O., KONVICKA C., SCHMID M., VARGA P., “Geometry of the valence transition induced surface reconstruction of Sm(0001)”, *Physical Review Letters* **88**, 136102-1-136102-4 (2002).
812. **02LU1362:** LUNDGREN E., KRESSE G., KLEIN C., BORG M., ANDERSEN J.N., DE SANTIS M., GAUTHIER Y., KONVICKA C., SCHMID M., VARGA P., “Two-dimensional oxide on Pd(111)”, *Physical Review Letters* **88**, 246103-1-246103-4 (2002).
813. **02SC1364:** SCHUBERT C., KAISER U., HEDLER A., WESCH W., GORELIK T., GLATZEL U., KRÄUBLICH J., WUNDERLICH B., HEB G., GOETZ K., “Nanocrystal formation in SiC by Ge ion implantation and subsequent thermal annealing”, *Journal of Applied Physics* **91**, 1520-1524 (2002).
814. **02PA1365:** PAVE A., LAURENT C., “Les très grands équipements scientifiques : vers une évolution des concepts et des moyens”, *Natures Sciences Sociétés* **80**, 80-92 (2002).
815. **02DU1366:** DUBREUIL F., ROMET-LEMONNE G., GUENOUN P., YANG J., MAYS J.W., DAILLANT J., “Structure and buckling of charged diblock copolymer films at liquid interfaces”, *Advances in Colloid and Interface Science* **94**, 151-165 (2001).

816. **02BE1367:** BERL V., HUC I., KHOURY R.G., LEHN J.M., “Helical molecular programming: Folding of oligopyridine-dicarboxamides into molecular single helices”, *Chemistry - A European Journal* **7**, 2798-2809 (2001).
817. **02HO1368:** HOSOKAWA S., “Atomic and electronic structures of glassy $\text{Ge}_x\text{Se}_{1-x}$ around the stiffness threshold composition”, *Journal of Optoelectronics and Advanced Materials* **3**, 199-214 (2001).
818. **02SM1369:** SMILGIES D.M., BUSCH P., PAPADAKIS C.M., POSSELT D., “Characterization of polymer thin films with small-angle X-ray scattering under grazing incidence (GISAXS)”, *Synchrotron Radiation News* **15**, 35-42 (2002).
819. **02HO1370:** HOSOKAWA S., WANG Y., BERAR J.F., GREIF J., PILGRIM W.C., MURASE K., “Anomalous X-ray scattering studies on glassy $\text{Ge}_x\text{Se}_{1-x}$ across the stiffness threshold composition $x=0.20$ ”, *Zeitschrift für Physikalische Chemie* **216**, 1219-1238 (2002).
820. **02SA1371:** SANCHEZ J.F., HOH F., STRUB M.P., AUMELAS A., DUMAS C., “Structure of the cathelicidin motif of protegrin-3 precursor: Structural insights into the activation mechanism of an antimicrobial protein”, *Structure* **10**, 1363-1370 (2002).
821. **02HA1372:** HARGREAVES D., SANTOS-SIERRA S., GIRALDO R., SABARIEGOS-JAREÑO R., DE LA CUEVA-MENDEZ G., BOELENS R., DIAZ-OREJAS R., RAFFERTY J.B., “Structural and functional analysis of the kid toxin protein from *E. coli* plasmid R1”, *Structure* **10**, 1425-1433 (2002).
822. **02AL1373:** ALLARD S.T.M., BEIS K., GIRAUD M.F., HEGEMAN A.D., GROSS J.W., WILMOUTH R.C., WHITFIELD C., GRANINGER M., MESSNER P., ALLEN A.G., MASKELL D.J., NAISMITH J.H., “Toward a structural understanding of the dehydratase mechanism”, *Structure* **10**, 81-92 (2002).
823. **02WI1374:** WILMOUTH R.C., TURNBULL J.J., WELFORD R.W.D., CLIFTON I.J., PRESCOTT A.G., SCHOFIELD C.J., “Structure and mechanism of anthocyanidin synthase from *Arabidopsis thaliana*”, *Structure* **10**, 93-103 (2002).
824. **02CH1375:** CHARRON C., ROBERT M.C., CAPELLE B., KADRI A., JENNER G., GIEGE R., LORBER B., “X-ray diffraction properties of protein crystals prepared in agarose gel under hydrostatic pressure”, *Journal of Crystal Growth* **245**, 321-333 (2002).
825. **02GI1376:** GILLET P., BARRAT J.A., DELOULE E., WADHWA M., JAMBON A., SAUTTER V., DEVOUARD B., NEUVILLE D., BENZERARA K., LESOURD M., “Aqueous alteration in the Northwest Africa 817 (NWA 817) Martian meteorite”, *Earth and Planetary Science Letters* **203**, 431-444 (2002).
826. **02ZI1377:** ZIEGLER F., SCHEIDEGGER A.M., JOHNSON C.A., DÄHN R., WIELAND E., “Sorption mechanisms of zinc to calcium silicate hydrate: X-ray absorption fine structure (XAFS) investigation”, *Environmental Science and Technology* **35**, 1550-1555 (2001).
827. **02DE1379:** DENT A.J., “Development of time-resolved XAFS instrumentation for quick EXAFS and energy-dispersive EXAFS measurements on catalyst systems”, *Topics in Catalysis* **18**, 27-35 (2002).
828. **02AL1380:** ALVES MARQUES M., CABAÇO M.I., DE BARROS MARQUES M.I., GASPAR A.M., “Intermediate-range order in aqueous solutions of salts constituted of divalent ions combined with monovalent counter-ions”, *Journal of Physics Condensed Matter* **14**, 7427-7448 (2002).
829. **02RU1382:** RUBATAT L., ROLLET A.L., DIAT O., GEBEL G., “Caractérisation de la structure des membranes ionomères (NAFION) par diffusion de rayons X aux petits angles”, *Journal de Physique IV* **12**, Pr6-197-Pr6-205 (2002).
830. **02VE1383:** VENDIER L., SCIAU P., DOORYHEE E., “Etude par diffraction des rayons X des vernis rouges des sigillées du sud de la Gaule. Les ateliers de la Graufesenque”, *Journal de Physique IV* **12**, Pr6-189-Pr6-196 (2002).
831. **02MA1385:** MCCUSKER L.B., BAERLOCHER C., GROSSE-KUNSTLEVE R.W., BRENNER S., WESSELS T., “Solving complex zeolite structures from powder diffraction data”, *Chimia* **55**, 497-504 (2001).
832. **02RO1386:** RØNNING M., NICHOLSON D.G., HOLMEN A., “*In situ* EXAFS study of the bimetallic interaction in a rhenium-promoted alumina-supported cobalt Fischer-Tropsch catalyst”, *Catalysis Letters* **72**, 141-146 (2001).
833. **02CR1387:** CRAWSHAW J., SFERRAZZA M., DONALD A.M., “Small angle X-ray scattering investigation of deformation in PMMA toughened with core-shell particles”, *Plastics, Rubber and Composites* **30**, 68-76 (2001).
834. **02RO1388:** RØNNING M., GJERVAN T., PRESTVIK R., NICHOLSON D.G., HOLMEN A., “Influence of pretreatment temperature on the bimetallic interactions in Pt-Re/ Al_2O_3 reforming catalysts studied by X-ray absorption spectroscopy”, *Journal of Catalysis* **204**, 292-304 (2001).
835. **02AN1389:** ANDRAULT D., BOLFAN-CASANOVA N., “High-pressure phase transformations in the MgFe_2O_4 and Fe_2O_3 - MgSiO_3 systems”, *Physics and Chemistry of Minerals* **28**, 211-217 (2001).

836. **02PI1391:** PILGRIM W.C., HOSOKAWA S., MORTEL C., “Density dependent atomic motion in a liquid alkali metal”, *Contributions to Plasma Physics* **41**, 283-286 (2001).
837. **02PR1392:** PROKERT F., NOETZEL J., SCHELL N., WIESER E., GORBUNOV A., “Effect of annealing on the interface structure of cross-beam pulsed laser deposited Co/Cu multilayers”, *Thin Solid Films* **416**, 114-121 (2002).
838. **02KR1393:** KRÖLL M., BLAU W.J., GRANDJEAN D., BENFIELD R.E., LUIS F., PAULUS P.M., DE JONGH L.J., “Magnetic properties of ferromagnetic nanowires embedded in nanoporous alumina membranes”, *Journal of Magnetism and Magnetic Materials* **249**, 241-245 (2002).
839. **02DE1394:** DENG Y., YOUNG R.N., RYAN A.J., FAIRCLOUGH J.P.A., NORMAN A.I., TACK R.D., “Bulk morphology and micellization of poly(diene)-poly(ethylene oxide) diblock copolymers in water”, *Polymer* **43**, 7155-7160 (2002).
840. **02WU1395:** WU J., SCHULTZ J.M., “Calculation of mesophase percentage of polymer fibers from 2D wide-angle X-ray scattering patterns”, *Polymer* **43**, 6695-6700 (2002).
841. **02LI1397:** LIVET F., BLEY F., SIMON J.P., CAUDRON R., MAINVILLE J., SUTTON M., LEBOLLOCH D., “Statics and kinetics of the ordering transition in the AuAgZn₂ alloy”, *Physical Review B* **66**, 134108-1-134108-9 (2002).
842. **02TH1398:** THUNNISSEN M.M.G.M., NORDLUND P., HAEGGSTRÖM J.Z., “Crystal structure of human leukotriene A₄ hydrolase, a bifunctional enzyme in inflammation”, *Nature Structural Biology* **8**, 131-135 (2001).
843. **02GA1399:** GADOLA S.D., ZACCAI N.R., HARLOS K., SHEPHERD D., CASTRO-PALOMINO J.C., RITTER G., SCHMIDT R.R., JONES E.Y., CERUNDOLO V., “Structure of human CD1b with bound ligands at 2.3 Å, a maze for alkyl chains”, *Nature Immunology* **3**, 721-726 (2002).
844. **02GO1400:** GORDELIY V.I., LABAHN J., MOUKHAMETZIANOV R., EFREMOV R., GRANZIN J., SCHLESINGER R., BÜLDT G., SAVOPOL T., SCHEIDIG A.J., KLARE J.P., ENGELHARD M., “Molecular basis of transmembrane signalling by sensory rhodopsin II-transducer complex”, *Nature* **419**, 484-487 (2002).
845. **02LA1401:** LANG H.L.E., JACOBSEN H., IKEMIZU S., ANDERSSON C., HARLOS K., MADSEN L., HJORTH P., SONDERGAARD L., SVEJGAARD A., WUCHERPFENNIG K., STUART D.I., BELL J.I., JONES E.Y., FUGGER L., “A functional and structural basis for TCR cross-reactivity in multiple sclerosis”, *Nature Immunology* **3**, 940-943 (2002).
846. **02FO1402:** FORD M.G.J., MILLS I.G., PETER B.J., VALLIS Y., PRAEFCKE G.J.K., EVANS P.R., MCMAHON H.T., “Curvature of clathrin-coated pits driven by epsin”, *Nature* **419**, 361-366 (2002).
847. **02HO1403:** HON W.C., WILSON M.I., HARLOS K., CLARIDGE T.D.W., SCHOFIELD C.J., PUGH C.W., MAXWELL P.H., RATCLIFFE P.J., STUART D.I., JONES E.Y., “Structural basis for the recognition of hydroxyproline in HIF-1 α by pVHL”, *Nature* **417**, 975-978 (2002).
848. **02PA1404:** PARKINSON G.N., LEE M.P.H., NEIDLE S., “Crystal structure of parallel quadruplexes from human telomeric DNA”, *Nature* **417**, 876-880 (2002).
849. **02BE1405:** BERGLUND G.I., CARLSSON G.H., SMITH A.T., SZÖKE H., HENRIKSEN A., HAJDU J., “The catalytic pathway of horseradish peroxidase at high resolution”, *Nature* **417**, 463-468 (2002).
850. **02PE1406:** PEPYS M.B., HERBERT J., HUTCHINSON W.L., TENNENT G.A., LACHMANN H.J., GALLIMORE J.R., LOVAT L.B., BARTFAI T., ALANINE A., HERTEL C., HOFFMANN T., JAKOB-ROETNE R., NORCROSS R.D., KEMP J.A., YAMAMURA K., SUZUKI M., TAYLOR G.W., MURRAY S., THOMPSON D., PURVIS A., KOLSTOE S., WOOD S.P., HAWKINS P.N., “Targeted pharmacological depletion of serum amyloid P component for treatment of human amyloidosis”, *Nature* **417**, 254-259 (2002).
851. **02SE1407:** SEEWALD M.J., KÖRNER C., WITTINGHOFER A., VETTER I.R., “RanGAP mediates GTP hydrolysis without an arginine finger”, *Nature* **415**, 662-666 (2002).
852. **02BA1408:** BARBOSA PEREIRA P.J., MACEDO-RIBEIRO S., PARRAGA A., PEREZ-LUQUE R., CUNNINGHAM O., DARCY K., MANTLE T.J., COLL M., “Structure of human biliverdin IX β reductase, an early fetal bilirubin IX β producing enzyme”, *Nature Structural Biology* **8**, 215-220 (2001).
853. **02DU1409:** DUTZLER R., CAMPBELL E.B., CADENE M., CHAIT B.T., MACKINNON R., “X-ray structure of a CIC chloride channel at 3.0 Å reveals the molecular basis of anion selectivity”, *Nature* **415**, 287-294 (2002).
854. **02PE1410:** PELLEGRINI L., YU D.S., LO T., ANAND S., LEE M., BLUNDELL T.L., VENKITARAMAN A.R., “Insights into DNA recombination from the structure of a RAD51–BRCA2 complex”, *Nature* **420**, 287-293 (2002).

855. **02ST1411:** STETEFELD J., JENNY M., SCHULTHESS T., LANDWEHR R., SCHUMACHER B., FRANK S., RÜEGG M.A., ENGEL J., KAMMERER R.A., “The laminin-binding domain of agrin is structurally related to N-TIMP-1”, *Nature Structural Biology* **8**, 705-709 (2001).
856. **02MU1412:** MURRAY-RUST J., LEIPER J., MCALISTER M., PHELAN J., TILLEY S., SANTA MARIA J., VALLANCE P., MCDONALD N. – Structural insights into the hydrolysis of cellular nitric oxide synthase inhibitors by dimethylarginine dimethylaminohydrolase”, *Nature Structural Biology* **8**, 679-683 (2001).
857. **02GA1413:** GABRIEL J.C.P., CAMEREL F., LEMAIRE B.J., DESVAUX H., DAVIDSON P., BATAIL P., “Swollen liquid-crystalline lamellar phase based on extended solid-like sheets”, *Nature* **413**, 504-508 (2001).
858. **02SA1414:** SAMATEY F.A., IMADA K., NAGASHIMA S., VONDERVISZT F., KUMASAKA T., YAMAMOTO M., NAMBA K., “Structure of the bacterial flagellar protofilament and implications for a switch for supercoiling “, *Nature* **410**, 331-337 (2001).
859. **02VA1415:** VAN DEN ENT F., AMOS L.A., LÖWE J., “Prokaryotic origin of the actin cytoskeleton”, *Nature* **413**, 39-44 (2001).
860. **02PA1416:** PANNIFER A.D., WONG T.Y., SCHWARZENBACHER R., RENATUS M., PETOSA C., BIENKOWSKA J., LACY D.B., COLLIER R.J., PARK S., LEPPLA S.H., HANNA P., LIDDINGTON R.C., “Crystal structure of the anthrax lethal factor”, *Nature* **414**, 229-233 (2001).
861. **02BR1417:** BRAVO J., LI Z., SPECK N.A., WARREN A.J., “The leukemia-associated AML1 (Runx1)–CBF β complex functions as a DNA-induced molecular clamp”, *Nature Structural Biology* **8**, 371-378 (2001).
862. **02WU1418:** WÜRTELE M., WOLF E., PEDERSON K.J., BUCHWALD G., AHMADIAN M.R., BARBIERI J.T., WITTINGHOFER A., “How the *Pseudomonas aeruginosa* ExoS toxin downregulates Rac”, *Nature Structural Biology* **8**, 23-26 (2001).
863. **02SI1419:** SIBANDA B.L., CRITCHLOW S.E., BEGUN J., PEI X.Y., JACKSON S.P., BLUNDELL T.L., PELLEGRINI L., “Crystal structure of an Xrcc4–DNA ligase IV complex”, *Nature Structural Biology* **8**, 1015-1019 (2001).
864. **02EN1420:** ENNIFAR E., WALTER P., EHRESMANN B., EHRESMANN C., DUMAS P., “Crystal structures of coaxially stacked kissing complexes of the HIV-1 RNA dimerization initiation site”, *Nature Structural Biology* **8**, 1064-1068 (2001).
865. **02VA1421:** VAN MONTFORT R.L.M., BASHA E., FRIEDRICH K.L., SLINGSBY C., VIERLING E., “Crystal structure and assembly of a eukaryotic small heat shock protein”, *Nature Structural Biology* **8**, 1025-1030 (2001).
866. **02DO1422:** DOBRITZSCH D., SCHNEIDER G., SCHNACKERZ K.D., LINDQVIST Y., “Crystal structure of dihydropyrimidine dehydrogenase, a major determinant of the pharmacokinetics of the anti-cancer drug 5-fluorouracil”, *EMBO Journal* **20**, 650-660 (2001).
867. **02BL1423:** BLAKE G.R., PALSTRA T.T.M., REN Y., NUGROHO A.A., MENOVSKY A.A., “Neutron diffraction, X-ray diffraction, and specific heat studies of orbital ordering in YVO $_3$ ”, *Physical Review B* **65**, 174112-1-174112-9 (2002).
868. **02WA1424:** WARKENTIN E., MAMAT B., SORDEL-KLIPPERT M., WICKE M., THAUER R.K., IWATA M., IWATA S., ERMLER U., SHIMA S., “Structures of F $_{420}$ H $_2$:NADP $^+$ oxidoreductase with and without its substrates bound”, *EMBO Journal* **20**, 6561-6569 (2001).
869. **02ST1425:** STEHR M., SCHNEIDER G., ÅSLUND F., HOLMGREN A., LINDQVIST Y., “Structural basis for the thioredoxin-like activity profile of the glutaredoxin-like NrdH-redoxin from *Escherichia coli*”, *Journal of Biological Chemistry* **276**, 35836-35841 (2001).
870. **02LU1426:** LUECKE H., SCHOBERT B., LANYI J.K., SPUDICH E.N., SPUDICH J.L., “Crystal structure of sensory rhodopsin II at 2.4 Angstroms: Insights into color tuning and transducer interaction”, *Science* **293**, 1499-1503 (2001).
871. **02TO1427:** TÖRÖ I., THORE S., MAYER C., BASQUIN J., SERAPHIN B., SUCK D., “RNA binding in an Sm core domain: X-ray structure and functional analysis of an archaeal Sm protein complex “, *EMBO Journal* **20**, 2293-2303 (2001).
872. **02FI1428:** FIEULAIN S., MORERA S., PONCET S., MONEDERO V., GUEGUEN-CHAIGNON V., GALINIER A., JANIN J., DEUTSCHER J., NESSLER S., “X-ray structure of HPr kinase: A bacterial protein kinase with a P-loop nucleotide-binding domain”, *EMBO Journal* **20**, 3917-3927 (2001).
873. **02IB1429:** IBARRA-PALOS A., DARIE C., PROUX O., HAZEMANN J.L., ALDON L., JUMAS J.C., MORCRETTE M., STROBEL P., “Electrochemical reactions of iron borates with lithium: Electrochemical and in situ Mössbauer and X-ray absorption studies”, *Chemistry of Materials* **14**, 1166-1173 (2002).

874. **02PA1430:** PASQUALATO S., MENETREY J., FRANCO M., CHERFILS J., “The structural GDP/GTP cycle of human Arf6”, *EMBO Reports* **21**, 234-238 (2001).
875. **02GO1431:** GOLEMI D., MAVEYRAUD L., VAKULENKO S., SAMAMA J.P., MOBASHERY S., “Critical involvement of a carbamylated lysine in catalytic function of class D β -lactamases “, *Proceedings of the National Academy of Sciences of the USA* **98**, 14280-14285 (2001).
876. **02CH1432:** CHABOY J., COTALLO E., QUARTIERI S., BOSCHERINI F., “New opportunities in trace elements structural characterization: High-energy X-ray absorption near-edge structure spectroscopy”, *Journal of Synchrotron Radiation* **9**, 86-89 (2002).
877. **02HO1433:** HÖNNERSCHIED A., DINNEBIER R., JANSEN M., “Reversible dimerization of C₆₀ molecules in the crystal structure of the bis(arene)chromium fulleride [Cr(C₇H₈)₂C₆₀”, *Acta Crystallographica B* **58**, 482-488 (2002).
878. **02WU1434:** WU Z., SAINI N.L., BIANCONI A., “Hg L₃ edge absorption study of the HgBa₂CuO_{4+ δ} superconductor”, *Physical Review B* **64**, 092507-1-092507-4 (2001).
879. **02SA1435:** SAINI N.L., OYANAGI H., LANZARA A., DI CASTRO D., AGRESTINI S., BIANCONI A., NAKAMURA F., FUJITA T., “Evidence for local lattice fluctuations as a response function of the charge stripe order in the La_{1.48}Nd_{0.4}Sr_{0.12}CuO₄ system”, *Physical Review B* **64**, 132510-1-132510-4 (2001).
880. **02SA1436:** SAINI N.L., BIANCONI A., OYANAGI H., “Evidence for critical lattice fluctuations in the high T_c cuprates”, *Journal of the Physical Society of Japan* **70**, 2092-2097 (2001).
881. **02DO1437:** DOUANGAMATH A., FILIPP F.V., KLEIN A.T.J., BARNETT P., ZOU P., VOORN-BROUWER T., VEGA M.C., MAYANS O.M., SATTLER M., DISTEL B., WILMANN S., “Topography for independent binding of α -helical and PPII-helical ligands to a peroxisomal SH3 domain”, *Molecular Cell* **10**, 1007-1017 (2002).
882. **02BU1438:** BUSCHIAZZO A., AMAYA M.F., CREMONA M.L., FRASCH A.C., ALZARI P.M., “The crystal structure and mode of action of trans-sialidase, a key enzyme in *Trypanosoma cruzi* pathogenesis”, *Molecular Cell* **10**, 757-768 (2002).
883. **02BR1439:** BRAND R.A., VOSS J., CALVAYRAC Y., “Dynamics in the icosahedral quasicrystal i-Al₆₂Cu_{25.5}Fe_{12.5}: Phonons and phasons”, *Journal of Non-Crystalline Solids* **287**, 210-215 (2001).
884. **02PO1440:** POKROVSKI G.S., SCHOTT J., HAZEMANN J.L., FARGES F., POKROVSKY O.S., “An X-ray absorption fine structure and nuclear magnetic resonance spectroscopy study of gallium-silica complexes in aqueous solution”, *Geochimica et Cosmochimica Acta* **66**, 4203-4222 (2002).
885. **02GI1441:** GIBSON R.P., TURKENBURG J.P., CHARNOCK S.J., LLOYD R., DAVIES G.J., “Insights into trehalose synthesis provided by the structure of the retaining glucosyltransferase OtsA”, *Chemistry & Biology* **9**, 1337-1346 (2002).
886. **02DI1442:** DI CICCO A., PRINCIPI E., FILIPPONI A., “Short-range disorder in pseudobinary ionic alloys”, *Physical Review B* **65**, 212106-1-212106-4 (2002).
887. **02DI1443:** DI CICCO A., MINICUCCI M., PRINCIPI E., WITKOWSKA A., RYBICKI J., LASKOWSKI R., “Testing interaction models by using X-ray absorption spectroscopy: Solid Pb”, *Journal of Physics Condensed Matter* **14**, 3365-3382 (2002).
888. **02KR1444:** KROJER T., GARRIDO-FRANCO M., HUBER R., EHRMANN M., CLAUSEN T., “Crystal structure of DegP (HtrA) reveals a new protease-chaperone machine”, *Nature* **416**, 455-459 (2002).
889. **02WI1445:** WILMOUTH R.C., EDMAN K., NEUTZE R., WRIGHT P.A., CLIFTON I.J., SCHNEIDER T.R., SCHOFIELD C.J., HAJDU J., “X-ray snapshots of serine protease catalysis reveal a tetrahedral intermediate”, *Nature Structural Biology* **8**, 689-694 (2001).
890. **02BR1446:** BRANDSTETTER H., KIM J.S., GROLL M., HUBER R., “Crystal structure of the tricorn protease reveals a protein disassembly line “, *Nature* **414**, 466-470 (2001).
891. **02SC1447:** SCHLÜNZEN F., ZARIVACH R., HARMS J., BASHAN A., TOCILJ A., ALBRECHT R., YONATH A., FRANCESCHI F., “Structural basis for the interaction of antibiotics with the peptidyl transferase centre in eubacteria”, *Nature* **413**, 814-821 (2001).
892. **02NU1448:** NURIZZO D., TURKENBURG J.P., CHARNOCK S.J., ROBERTS S.M., DODSON E.J., MCKIE V.A., TAYLOR E.J., GILBERT H.J., DAVIES G.J., “*Cellvibrio japonicus* α -L-arabinanase 43A has a novel five-blade β -propeller fold”, *Nature Structural Biology* **9**, 665-668 (2002).
893. **02MA1449:** MATE M.J., ORTIZ-LOMBARDIA M., BOITEL B., HAOUZ A., TELLO D., SUSIN S.A., PENNINGER J., KROEMER G., ALZARI P.M., “The crystal structure of the mouse apoptosis-inducing factor AIF”, *Nature Structural Biology* **9**, 442-446 (2002).

894. **02TO1450:** TORRES-LARIOS A., DOCK-BREGEON A.C., ROMBY P., REES B., SANKARANARAYANAN R., CAILLET J., SPRINGER M., EHRESMANN C., EHRESMANN B., MORAS D., “Structural basis of translational control by *Escherichia coli* threonyl tRNA synthetase”, *Nature Structural Biology* **9**, 343-347 (2002).
895. **02YA1451:** YANG J., CRON P., GOOD V.M., THOMPSON V., HEMMINGS B.A., BARFORD D., “Crystal structure of an activated Akt/protein kinase B ternary complex with GSK3-peptide and AMP-PNP”, *Nature Structural Biology* **9**, 940-944 (2002).
896. **02ZE1452:** ZETH K., RAVELLI R.B.G., PAAL K., CUSACK S., BUKAU B., DOUGAN D.A., “Structural analysis of the adaptor protein ClpS in complex with the N-terminal domain of ClpA”, *Nature Structural Biology* **9**, 906-911 (2002).
897. **02BI1453:** BINDA C., NEWTON-VINSON P., HUBALEK F., EDMONDSON D.E., MATTEVI A., “Structure of human monoamine oxidase B, a drug target for the treatment of neurological disorders”, *Nature Structural Biology* **9**, 22-26 (2002).
898. **02LI1454:** LISGARTEN J.N., COLL M., PORTUGAL J., WRIGHT C.W., AYMAMI J., “The antimalarial and cytotoxic drug cryptolepine intercalates into DNA at cytosine-cytosine sites”, *Nature Structural Biology* **9**, 57-60 (2002).
899. **02VA1455:** VAN THOR J.J., GENSCHE T., HELLINGWERF K.J., JOHNSON L.N., “Phototransformation of green fluorescent protein with UV and visible light leads to decarboxylation of glutamate 222”, *Nature Structural Biology* **9**, 37-41 (2002).
900. **02GR1456:** GROSSE E., SEVIER C.S., VALA A., KAISER C.A., FASS D., “A new FAD-binding fold and intersubunit disulfide shuttle in the thiol oxidase Erv2p”, *Nature Structural Biology* **9**, 61-67 (2002).
901. **02KU1457:** KUGLSTATTER A., OUBRIDGE C., NAGAI K., “Induced structural changes of 7SL RNA during the assembly of human signal recognition particle”, *Nature Structural Biology* **9**, 740-744 (2002).
902. **02RI1458:** RINALDO-MATTHIAS A., RAMPAZZO C., REICHARD P., BIANCHI V., NORDLUND P., “Crystal structure of a human mitochondrial deoxyribonucleotidase”, *Nature Structural Biology* **9**, 779-787 (2002).
903. **02DA1459:** DAVIES T.G., BENTLEY J., ARRIS C.E., BOYLE F.T., CURTIN N.J., ENDICOTT J.A., GIBSON A.E., GOLDING B.T., GRIFFIN R.J., HARDCASTLE I.R., JEWSEBURY P., JOHNSON L.N., MESGUICHE V., NEWELL D.R., NOBLE M.E.M., TUCKER J.A., WANG L., WHITFIELD H.J., “Structure-based design of a potent purine-based cyclin-dependent kinase inhibitor”, *Nature Structural Biology* **9**, 745-749 (2002).
904. **02AU1460:** AUKRUST A., GRACE D., SYDNES L.K., TÖRNROOS K.W., “The structures of DPDP, CdDPDP and ZnDPDP as studied by X-ray diffraction and NMR”, *Journal of Molecular Structure* **641**, 281-297 (2002).
905. **02LA1461:** LABAHN J., NEUMANN S., BÜLDT G., KULA M.R., GRANZIN J., “An alternative mechanism for amidase signature enzymes”, *Journal of Molecular Biology* **322**, 1053-1064 (2002).
906. **02MA1462:** MARCO Y., CHEVALIER L., CHAOUICHE M., “WAXD study of induced crystallization and orientation in poly(ethylene terephthalate) during biaxial elongation”, *Polymer* **43**, 6569-6574 (2002).
907. **02PO1463:** POKROVSKI G.S., ZAKIROV I.V., ROUX J., TESTEMALE D., HAZEMANN J.L., BYCHKOV A.Y., GOLIKOVA G.V., “Experimental study of arsenic speciation in vapor phase to 500°C: Implications for As transport and fractionation in low-density crustal fluids and volcanic gases”, *Geochimica et Cosmochimica Acta* **66**, 3453-3480 (2002).
908. **02PA1464:** PASZKOWICZ W., “High-pressure powder X-ray diffraction at the turn of the century”, *Nuclear Instruments and Methods in Physics Research B* **198**, 142-182 (2002).
909. **02TE1465:** TERECH P., TALMON Y., “Aqueous suspensions of steroid nanotubules: Structural and rheological characterizations”, *Langmuir* **18**, 7240-7244 (2002).
910. **02MI1466:** MIRZA O., SKOV L.K., REMAUD-SIMEON M., POTOCKI DE MONTALK G., ALBENNE C., MONSAN P., GAJHEDE M., “Crystal structures of amylosucrase from *Neisseria polysaccharea* in complex with D-glucose and the active site mutant Glu328Gln in complex with the natural substrate sucrose”, *Biochemistry* **40**, 9032-9039 (2001).
911. **02WA1467:** WADA M., HEUX L., ISOGAI A., NISHIYAMA Y., CHANZY H., SUGIYAMA J., “Improved structural data of cellulose III_I prepared in supercritical ammonia”, *Macromolecules* **34**, 1237-1243 (2001).
912. **02RE1468:** REISER J.B., GREGOIRE C., DARNAULT C., MOSSER T., GUIMEZANES A., SCHMITT-VERHULST A.M., FONTECILLA-CAMPS J.C., MAZZA G., MALISSEN B., HOUSSET D., “A T cell receptor CDR3 β loop undergoes conformational changes of unprecedented magnitude upon binding to a peptide/MHC class I complex”, *Immunity* **16**, 345-354 (2002).

913. **02HE1469:** HEINRICH M., RAWISO M., ZILLIOX J.G., LESIEUR P., SIMON J.P., “Small-angle X-ray scattering from salt-free solutions of star-branched polyelectrolytes”, *European Physical Journal E* **4**, 131-142 (2001).
914. **02HI1470:** HILLER J., WESS T.J., COLLINS M.J., CHAMBERLAIN A.T., “Preservation of skeletal remains in European Pleistocene caves: Changes to the protein and mineral components of fossil bone”, *American Journal of Physical Anthropology* **32**, 80 (2001).
915. **02KO1471:** KOLADE O.O., CARR S.B., KÜHLMANN U.C., POMMER A., KLEANTHOUS C., BOUCHCINSKY C.A., HEMMINGS A.M., “Structural aspects of the inhibition of DNase and rRNase colicins by their immunity proteins”, *Biochimie* **84**, 439-446 (2002).
916. **02BU1472:** BUDAYOVA-SPANO M., GRABARSE W., THIELENS N.M., HILLEN H., LACROIX M., SCHMIDT M., FONTECILLA-CAMPS J.C., ARLAUD G.J., GABORIAUD C., “Monomeric structures of the zymogen and active catalytic domain of complement protease C1r: Further insights into the C1 activation mechanism”, *Structure* **10**, 1509-1519 (2002).
917. **02ST1473:** STOCKER A., TOMIZAKI T., SCHULZE-BRIESE C., BAUMANN U., “Crystal structure of the human supernatant protein factor”, *Structure* **10**, 1533-1540 (2002).
918. **02GO1474:** GONELLA G., CAVALLERI O., EMILIANOV I., MATTERA L., CANEPA M., ROLANDI R., “Spectro-ellipsometry on cadmium stearate Langmuir–Blodgett films”, *Materials Science and Engineering C* **22**, 359-366 (2002).
919. **02SC1475:** SCIAU P., VENDIER L., DOORYHEE E., “La diffraction des rayons X est-elle adaptée à l'étude des engobes des sigillées”, In: "Archéologie et Histoire Romaine 7 - Céramiques de la Graufesenque et autres Productions d'Epoque Romaine - Nouvelles Recherches" GENIN M., VERNHET A. (Eds.) (Editions Monique Mergoïl, 2002) pp. 171-179.
920. **02WE1476:** WEIK M., RAVELLI R.B.G., SILMAN I., SUSSMAN J.L., GROS P., KROON J., “Specific protein dynamics near the solvent glass transition assayed by radiation-induced structural changes”, *Protein Science* **10**, 1953-1961 (2001).
921. **02DU1477:** DUSEK M., LÜDECKE J., VAN SMAALEN S., “Crystal structure of monophosphate tungsten bronze $K_{1.33}P_4W_8O_{32}$ at 110 K”, *Journal of Materials Chemistry* **12**, 1408-1414 (2002).
922. **02FJ1478:** FJELLVÅG H., AKPORIAYE D.E., HALVORSEN E.N., KARLSSON A., KONGSHAUG K.O., LILLERUD K.P., “Crystal structure and MAS-NMR study of rehydrated $U\text{O}_2$ ”, *Solid State Sciences* **3**, 603-611 (2001).
923. **02BO1479:** BØTTIGER J., CHEVALIER J., PETERSEN J.H., SCHELL N., MATZ W., MÜCKLICH A., “Observation of the growth mode of TiN during magnetron sputtering using synchrotron radiation”, *Journal of Applied Physics* **91**, 5429-5433 (2002).
924. **02ST1481:** STEINER R.A., KOOTER I.M., DIJKSTRA B.W., “Functional analysis of the copper-dependent quercetin 2,3-dioxygenase. 1. Ligand-induced coordination changes probed by X-ray crystallography: Inhibition, ordering effect, and mechanistic insights”, *Biochemistry* **41**, 7955-7962 (2002).
925. **02SK1482:** SKÅRMAN B., NAKAYAMA T., GRANDJEAN D., BENFIELD R.E., OLSSON E., NIIHARA K., WALLEMBERG L.R., “Morphology and structure of $\text{CuO}_x/\text{CeO}_2$ nanocomposite catalysts produced by inert gas condensation: An HREM, EFTEM, XPS, and high-energy diffraction study”, *Chemistry of Materials* **14**, 3686-3699 (2002).
926. **02TI1483:** TIITU M., HIEKKATAIPALE P., HARTIKAINEN J., MÄKELÄ T., IKKALA O., “Viscoelastic and electrical transitions in gelation of electrically conducting polyaniline”, *Macromolecules* **35**, 5212-5217 (2002).
927. **02CO1484:** COOK A., LOWE E.D., CHRYSINA E.D., SKAMNAKI V.T., OIKONOMAKOS N.G., JOHNSON L.N., “Structural studies on phospho-CDK2/cyclin A bound to nitrate, a transition state analogue: Implications for the protein kinase mechanism”, *Biochemistry* **41**, 7301-7311 (2002).
928. **02GI1485:** GIBSON A.E., ARRIS C.E., BENTLEY J., BOYLE F.T., CURTIN N.J., DAVIES T.G., ENDICOTT J.A., GOLDING B.T., GRANT S., GRIFFIN R.J., JEWSEBURY P., JOHNSON L.N., MESGUICHE V., NEWELL D.R., NOBLE M.E.M., TUCKER J.A., WHITFIELD H.J., “Probing the ATP ribose-binding domain of cyclin-dependent kinases 1 and 2 with O^6 -substituted guanine derivatives”, *Journal of Medicinal Chemistry* **45**, 3381-3393 (2002).
929. **02BA1486:** BAMFORD V.A., ANGOVE H.C., SEWARD H.E., THOMSON A.J., COLE J.A., BUTT J.N., HEMMINGS A.M., RICHARDSON D.J., “Structure and spectroscopy of the periplasmic cytochrome *c* nitrite reductase from *Escherichia coli*”, *Biochemistry* **41**, 2921-2931 (2002).

930. **02TH1487:** THOM R., CUMMINS I., DIXON D.P., EDWARDS R., COLE D.J., LAPTHORN A.J., “Structure of a tau class glutathione *S*-transferase from wheat active in herbicide detoxification”, *Biochemistry* **41**, 7008-7020 (2002).
931. **02DR1488:** DROZDOVA L., PRINS R., DEDECEK J., SOBALIK Z., WICHTERLOVA B., “Bonding of Co ions in ZSM-5, ferrierite, and mordenite: An X-ray absorption, UV-Vis, and IR study”, *Journal of Physical Chemistry B* **106**, 2240-2248 (2002).
932. **02ME1489:** MERKLING P.J., MUÑOZ-PAEZ A., SANCHEZ MARCOS E., “Exploring the capabilities of X-ray absorption spectroscopy for determining the structure of electrolyte solutions: Computed spectra for Cr³⁺ or Rh³⁺ in water based on molecular dynamics”, *Journal of the American Chemical Society* **124**, 10911-10920 (2002).
933. **02SU1490:** SUN Q., BEELEN T.P.M., VAN SANTEN R.A., HAZELAAR S., VRIELING E.G., GIESKES W.W.C., “PEG-mediated silica pore formation monitored in situ by USAXS and SAXS: Systems with properties resembling diatomaceous silica”, *Journal of Physical Chemistry B* **106**, 11539-11548 (2002).
934. **02ME1491:** MEROUEH S.O., ROBLIN P., GOLEMI D., MAVEYRAUD L., VAKULENKO S.B., ZHANG Y., SAMAMA J.P., MOBASHERY S., “Molecular dynamics at the root of expansion of function in the M69L inhibitor-resistant TEM β -lactamase from *Escherichia coli*”, *Journal of the American Chemical Society* **124**, 9422-9430 (2002).
935. **02OR1492:** ORDOÑEZ-REGIL E., DROT R., SIMONI E., EHRHARDT J.J., “Sorption of uranium(VI) onto lanthanum phosphate surfaces”, *Langmuir* **18**, 7977-7984 (2002).
936. **02HO1493:** HÖGBOM M., HUQUE Y., SJÖBERG B.M., NORDLUND P., “Crystal structure of the di-iron/radical protein of ribonucleotide reductase from *Corynebacterium ammoniagenes*”, *Biochemistry* **41**, 1381-1389 (2002).
937. **02ME1494:** MESSE L., CORVAZIER L., YOUNG R.N., RYAN A.J., “Phase behavior of a poly(ethylene oxide)-*block*-poly(isoprene) copolymer in aqueous solutions: From liquid to solid state”, *Langmuir* **18**, 2564-2570 (2002).
938. **02AG1495:** AGHAJARI N., ROTH M., HASER R., “Crystallographic evidence of a transglycosylation reaction: Ternary complexes of a psychrophilic α -amylase”, *Biochemistry* **41**, 4273-4280 (2002).
939. **02CR1496:** CREPIN T., SCHMITT E., BLANQUET S., MECHULAM Y., “Structure and function of the C-terminal domain of methionyl-tRNA synthetase”, *Biochemistry* **41**, 13003-13011 (2002).
940. **02BO1497:** BORDIGA S., DAMIN A., BONINO F., ZECCHINA A., SPANO G., RIVETTI F., BOLIS V., PRESTIPINO C., LAMBERTI C., “Effect of interaction with H₂O and NH₃ on the vibrational, electronic, and energetic peculiarities of Ti(IV) centers TS-1 catalysts: A spectroscopic and computational study”, *Journal of Physical Chemistry B* **106**, 9892-9905 (2002).
941. **02BO1498:** BOND A.D., FEEDER N., REDMAN J.E., TEAT S.J., SANDERS J.K.M., “Molecular conformation and intermolecular interactions in the crystal structures of free-base 5,15-diarylporphyrins”, *Crystal Growth & Design* **2**, 27-39 (2002).
942. **02BR1499:** BRIGE A., LEYS D., MEYER T.E., CUSANOVICH M.A., VAN BEEUMEN J.J., “The 1.25 Å resolution structure of the diheme NapB subunit of soluble nitrate reductase reveals a novel cytochrome *c* fold with a stacked heme arrangement”, *Biochemistry* **41**, 4827-4836 (2002).
943. **02BR1500:** BRZOZOWSKI A.M., DODSON E.J., DODSON G.G., MURSHUDOV G.N., VERMA C., TURKENBURG J.P., DE BREE F.M., DAUTER Z., “Structural origins of the functional divergence of human insulin-like growth factor-I and insulin”, *Biochemistry* **41**, 9389-9397 (2002).
944. **02CA1501:** CAMEREL F., GABRIEL J.C.P., BATAIL P., DAVIDSON P., LEMAIRE B., SCHMUTZ M., GULIK-KRZYWICKI T., BOURGAUX C., “Original single walled nanotubules based on weakly interacting covalent mineral polymers, ¹ ∞ [Nb₂PS₁₀]⁻ in N-methylformamide”, *Nano Letters* **2**, 403-407 (2002).
945. **02DA1502:** DARDENNE K., SCHÄFER T., LINDQVIST-REIS P., DENECKE M.A., PLASCHKE M., ROTHE J., KIM J.I., “Low temperature XAFS investigation on the lutetium binding changes during the 2-line ferrihydrite alteration process”, *Environmental Science and Technology* **36**, 5092-5099 (2002).
946. **02DV1503:** DVIR H., JIANG H.L., WONG D.M., HAREL M., CHETRIT M., HE X.C., JIN G.Y., YU G.L., TANG X.C., SILMAN I., BAI D.L., SUSSMAN J.L., “X-ray structures of *Torpedo californica* acetylcholinesterase complexed with (+)-huperzine A and (-)-huperzine B: Structural evidence for an active site rearrangement”, *Biochemistry* **41**, 10810-10818 (2002).
947. **02GA1504:** GARAVINI H., RIENTO K., PHELAN J.P., MCALISTER M.S.B., RIDLEY A.J., KEEP N.H., “Crystal structure of the core domain of RhoE/Rnd3: A constitutively activated small G protein”, *Biochemistry* **41**, 6303-6310 (2002).

948. **02KO1505:** KOGEJ K., THEUNISSEN E., REYNAERS H., “Effect of polyion charge density on the morphology of nanostructures in polyelectrolyte–surfactant complexes”, *Langmuir* **18**, 8799-8805 (2002).
949. **02MA1506:** MARGADONNA S., ASLANIS E., PRASSIDES K., “Ammoniated alkali fullerides (ND₃)_xNaA₂C₆₀: Ammonia specific effects and superconductivity”, *Journal of the American Chemical Society* **124**, 10146-10156 (2002).
950. **02MA1507:** MATIAS P.M., CARRONDO M.A., COELHO R., THOMAZ M., ZHAO X.Y., WEGG A., CRUSIUS K., EGNER U., DONNER P., “Structural basis for the glucocorticoid response in a mutant human androgen receptor (AR_{ccr}) derived from an androgen-independent prostate cancer”, *Journal of Medicinal Chemistry* **45**, 1439-1446 (2002).
951. **02MO1508:** MOREAU G., HELM L., PURANS J., MERBACH A.E., “Structural investigation of the aqueous Eu²⁺ ion: Comparison with Sr²⁺ using the XAFS technique”, *Journal of Physical Chemistry A* **106**, 3034-3043 (2002).
952. **02LE1509:** LESUISSE D., LANGE G., DEPRez P., BENARD D., SCHOOT B., DELETTRE G., MARQUETTE J.P., BROTO P., JEAN-BAPTISTE V., BICHET P., SARUBBI E., MANDINE E., “SAR and X-ray. A new approach combining fragment-based screening and rational drug design: Application to the discovery of nanomolar inhibitors of Src SH2”, *Journal of Medicinal Chemistry* **45**, 2379-2387 (2002).
953. **02RA1510:** RANNOU P., DUFOUR B., TRAVERS J.P., PRON A., DJURADO D., JANECZEK H., SEK D., “Temperature-induced transitions in doped polyaniline: Correlation between glass transition, thermochromism and electrical transport”, *Journal of Physical Chemistry B* **106**, 10553-10559 (2002).
954. **02RA1511:** RASTOGI A., HOBBS J.K., RASTOGI S., “Time-resolved WAXD and SAXS investigations on butyl branched alkane at elevated pressures”, *Macromolecules* **35**, 5861-5868 (2002).
955. **02TO1512:** TOURNASSAT C., CHARLET L., BOSBACH D., MANCEAU A., “Arsenic(III) oxidation by birnessite and precipitation of manganese(II) arsenate”, *Environmental Science and Technology* **36**, 493-500 (2002).
956. **02VA1513:** VAN HOOY-CORSTJENS C.S.J., MAGUSIN P.C.M.M., RASTOGI S., LEMSTRA P.J., “A comparative study on gels and clathrates of syndiotactic polystyrene: Solvent mobility in polymer–solvent compounds”, *Macromolecules* **35**, 6630-6637 (2002).
957. **02NI1514:** NISHIYAMA Y., LANGAN P., CHANZY H., “Crystal structure and hydrogen-bonding system in cellulose I β from synchrotron X-ray and neutron fiber diffraction”, *Journal of the American Chemical Society* **124**, 9074-9082 (2002).
958. **02CO1515:** COURTY S., LEBEAU L., MARTEL L., LENNE P.F., BALAVOINE F., DISCHERT W., KONOVALOV O., MIOSKOWSKI C., LEGRAND J.F., VENIEN-BRYAN C., “Two-dimensional crystallization of a histidine-tagged protein on monolayers of fluidity-enhanced Ni²⁺-chelating lipids”, *Langmuir* **18**, 9502-9512 (2002).
959. **02SA1516:** SAUTER D., WEINMANN M., BERGER F., LAMPARTER P., MÜLLER K., ALDINGER F., “X-ray and neutron scattering and solid state NMR investigations on precursor-derived B–C–N ceramics using isotopic substitution”, *Chemistry of Materials* **14**, 2859-2870 (2002).
960. **02BO1517:** BOSSI R.T., NEGRI A., TEDESCHI G., MATTEVI A., “Structure of FAD-bound L-aspartate oxidase: Insight into substrate specificity and catalysis”, *Biochemistry* **41**, 3018-3024 (2002).
961. **02PA1518:** PARSIEGLA G., BELAÏCH A., BELAÏCH J.P., HASER R., “Crystal structure of the cellulase Cel9M enlightens structure/function relationships of the variable catalytic modules in glycoside hydrolases”, *Biochemistry* **41**, 11134-11142 (2002).
962. **02PO1519:** POP M.M., GOUBITZ K., BORODI G., BOGDAN M., DE RIDDER D.J.A., PESCHAR R., SCHENK H., “Crystal structure of the inclusion complex of β -cyclodextrin with mefenamic acid from high-resolution synchrotron powder-diffraction data in combination with molecular-mechanics calculations”, *Acta Crystallographica B* **58**, 1036-1043 (2002).
963. **02CZ1520:** CZJZEK M., ELANTAK L., ZAMBONI V., MORELLI X., DOLLA A., GUERLESQUIN F., BRUSCHI M., “The crystal structure of the hexadeca-heme cytochrome Hmc and a structural model of its complex with cytochrome *c*₃”, *Structure* **10**, 1677-1686 (2002).
964. **02RI1521:** RIFFEL N., HARLOS K., IOURIN O., RAO Z., KINGSMAN A., STUART D., FRY E., “Atomic resolution structure of Moloney murine leukemia virus matrix protein and its relationship to other retroviral matrix proteins”, *Structure* **10**, 1627-1636 (2002).
965. **02OG1522:** OGLE J.M., MURPHY IV F.V., TARRY M.J., RAMAKRISHNAN V., “Selection of tRNA by the ribosome requires a transition from an open to a closed form”, *Cell* **111**, 721-732 (2002).

966. **02PR1523:** PREUSS M., RAUCHS G., WITHERS P.J., MAIRE E., BUFFIERE J.Y., “Interfacial shear strength of Ti/SiC fibre composites measured by synchrotron strain measurement”, *Composites Part A* **33**, 1381-1385 (2002).
967. **02KA1524:** KALLEN J.A., SCHLAEPI J.M., BITSCH F., GEISSE S., GEISER M., DELHON I., FOURNIER B., “X-ray structure of the hROR α LBD at 1.63 Å: Structural and functional data that cholesterol or a cholesterol derivative is the natural ligand of ROR α ”, *Structure* **10**, 1697-1707 (2002).
968. **02BI1525:** BIRD L.E., REN J., ZHANG J., FOXWELL N., HAWKINS A.R., CHARLES I.G., STAMMERS D.K., “Crystal structure of SANOS, a bacterial nitric oxide synthase oxygenase protein from *Staphylococcus aureus*”, *Structure* **10**, 1687-1696 (2002).
969. **02ST1526:** STANGL J., HOLY V., SPRINGHOLZ G., BAUER G., KEGEL I., METZGER T.H., “Self-organized semiconductor nanostructures: Shape, strain and composition”, *Materials Science and Engineering C* **19**, 349-358 (2002).
970. **02ZH1527:** ZHONG Z., AMBACHER O., LINK A., HOLY V., STANGL J., LECHNER R.T., ROCH T., BAUER G., “Influence of GaN domain size on the electron mobility of two-dimensional electron gases in AlGaIn/GaN heterostructures determined by X-ray reflectivity and diffraction”, *Applied Physics Letters* **80**, 3521-3523 (2002).
971. **02AC1528:** ACHTERHOLD K., KEPPLER C., OSTERMANN A., VAN BÜRCK U., STURHAHN W., ALP E.E., PARAK F.G., “Vibrational dynamics of myoglobin determined by the phonon-assisted Mössbauer effect”, *Physical Review E* **65**, 051916-1-051916-13 (2002).
972. **02ER1529:** ERRANDONEA D., SCHWAGER B., BOEHLER R., ROSS M., “Phase behavior of krypton and xenon to 50 GPa”, *Physical Review B* **65**, 214110-1-214110-6 (2002).
973. **02OK1530:** OKITSU K., UEJI Y., SATO K., AMEMIYA Y., “X-ray four-quadrant diamond phase-retarder system to compensate for off-axis and chromatic aberrations”, *Acta Crystallographica A* **58**, 146-154 (2002).
974. **02ON1531:** O'NEILL P., STEVENS D.L., GARMAN E.F., “Physical and chemical considerations of damage induced in protein crystals by synchrotron radiation: A radiation chemical perspective”, *Journal of Synchrotron Radiation* **9**, 329-332 (2002).
975. **02MA1532:** MARINKOVIC N.S., HUANG R., BROMBERG P., SULLIVAN M., TOOMEY J., MILLER L.M., SPERBER E., MOSHE S., JONES K.W., CHOUPAROVA E., LAPPI S., FRANZEN S., CHANCE M.R., “Center for Synchrotron Biosciences' U2B beamline: An international resource for biological infrared spectroscopy”, *Journal of Synchrotron Radiation* **9**, 189-197 (2002).
976. **02HE1533:** HELLIWELL J.R., “New opportunities in biological and chemical crystallography”, *Journal of Synchrotron Radiation* **9**, 1-8 (2002).
977. **02MU1534:** MURRAY J., GARMAN E., “Investigation of possible free-radical scavengers and metrics for radiation damage in protein cryocrystallography”, *Journal of Synchrotron Radiation* **9**, 347-354 (2002).
978. **02GA1535:** GARMAN E., NAVE C., “Radiation damage to crystalline biological molecules: Current view”, *Journal of Synchrotron Radiation* **9**, 327-328 (2002).
979. **02CH1536:** CHEREZOV V., RIEDL K.M., CAFFREY M., “Too hot to handle? Synchrotron X-ray damage of lipid membranes and mesophases”, *Journal of Synchrotron Radiation* **9**, 333-341 (2002).
980. **02TU1537:** TUOMI T., “Synchrotron X-ray topography of electronic materials”, *Journal of Synchrotron Radiation* **9**, 174-178 (2002).
981. **02SA1538:** SALVADO N., PRADELL T., PANTOS E., PAPIZ M.Z., MOLERA J., SECO M., VENDRELL-SAZ M., “Identification of copper-based green pigments in Jaume Huguet's Gothic altarpieces by Fourier transform infrared microspectroscopy and synchrotron radiation X-ray diffraction”, *Journal of Synchrotron Radiation* **9**, 215-222 (2002).
982. **02EL1539:** ELLEAUME H., CHARVET A.M., CORDE S., ESTEVE F., LE BAS J.F., “Performance of computed tomography for contrast agent concentration measurements with monochromatic X-ray beams: Comparison of K-edge versus temporal subtraction”, *Physics in Medicine and Biology* **47**, 3369-3385 (2002).
983. **02SZ1540:** SZALOKI I., TÖRÖK S.B., INJUK J., VAN GRIEKEN R.E., “X-ray spectrometry”, *Analytical Chemistry* **74**, 2895-2918 (2002).
984. **02DA1541:** DAVEY J.R., LIU W., QUAYLE M.J., TIDDY G.J.T., “In situ monitoring of crystallization processes using synchrotron X-ray diffraction: The search for structural precursors”, *Crystal Growth & Design* **2**, 269-272 (2002).
985. **02AL1542:** ALMEIDA R.M., MORAIS P.J., MARQUES A.C., “Planar waveguides for integrated optics prepared by sol-gel methods”, *Philosophical Magazine B* **82**, 707-719 (2002).

986. **02MA1543:** MARGIOLAKI I., MARGADONNA S., PRASSIDES K., HANSEN T., ISHII K., SUEMATSU H., "Magnetic structure of the europium fulleride ferromagnet Eu_6C_{60} ", *Journal of the American Chemical Society* **124**, 11288-11289 (2002).
987. **02RA1544:** RAVY S., POUGET J.P., GRENIER S., TOADER A., LORENZO J.E., JOLY Y., RENEVIER H., GRENIER B., HENRY J.Y., REGNAULT L.P., JEGOUEZ J., DHALENNE G., REVCOLEVSCHI A., "Structural properties of the low-dimensional quantum antiferromagnets $\alpha\text{NaV}_2\text{O}_5$ and CuGeO_3 ", In: "Quantum Properties of Low-Dimensional Antiferromagnets. Proceedings of French-Japanese Symposium" AJIRO Y., BOUCHER J.P. (Eds.) (Kyushu University Press, 2002) pp. 151-158.
988. **02DU1545:** DÜRR A.C., SCHREIBER F., MÜNCH M., KARL N., KRAUSE B., KRUPPA V., DOSCH H., "High structural order in thin films of the organic semiconductor diindenoperylene", *Applied Physics Letters* **81**, 2276-2278 (2002).
989. **02EG1546:** EGGERT J.H., WECK G., LOUBEYRE P., "Structure of liquid water at high pressures and temperatures", *Journal of Physics Condensed Matter* **14**, 11385-11394 (2002).
990. **02ER1547:** ERRANDONEA D., SCHWAGER B., BOEHLER R., "Crystal structure transformations of rare-gas solids under pressure", *High Pressure Research* **22**, 375-379 (2002).
991. **02KU1550:** KULDA J., KAINZMAIER H., STRAUCH D., DORNER B., LORENZEN M., KRISCH M., "Overbending of the longitudinal optical phonon branch in diamond as evidenced by inelastic neutron and X-ray scattering", *Physical Review B* **66**, 241202-1-241202-4 (2002).
992. **02WR1551:** WRIGHT J.P., ATTFIELD J.P., RADAELLI P.G., "Charge ordered structure of magnetite Fe_3O_4 below the Verwey transition", *Physical Review B* **66**, 214422-1-214422-15 (2002).
993. **02SA1552:** SARRET G., SAUMITOU-LAPRADE P., BERT V., PROUX O., HAZEMANN J.L., TRAVERSE A., MARCUS M.A., MANCEAU A., "Forms of zinc accumulated in the hyperaccumulator *Arabidopsis halleri*", *Plant Physiology* **130**, 1815-1826 (2002).
994. **02HA1553:** HADDEN J.M., CONVERY M.A., DECLAIS A.C., LILLEY D.M.J., PHILLIPS S.E.V., "Crystal structure of the Holliday junction resolving enzyme T7 endonuclease I", *Nature Structural Biology* **8**, 62-67 (2001).
995. **02JO1554:** JORDAN P., FROMME P., WITT H.T., KLUKAS O., SAENGER W., KRAUSS N., "Three-dimensional structure of cyanobacterial photosystem I at 2.5 Å resolution", *Nature* **411**, 909-917 (2001).
996. **02ZH1555:** ZHOU M., MORAIS-CABRAL J.H., MANN S., MACKINNON R., "Potassium channel receptor site for the inactivation gate and quaternary amine inhibitors", *Nature* **411**, 657-661 (2001).
997. **02BR1556:** BREJC A., VAN DIJK W.J., KLAASSEN R.V., SCHUURMANS M., VAN DER OOST J., SMIT A.B., SIXMA T.K., "Crystal structure of an ACh-binding protein reveals the ligand-binding domain of nicotinic receptors", *Nature* **411**, 269-276 (2001).
998. **02TA1557:** TARRICONE C., XIAO B., JUSTIN N., WALKER P.A., RITTINGER K., GAMBLIN S.J., SMERDON S.J., "The structural basis of Arfaptin-mediated cross-talk between Rac and Arf signalling pathways", *Nature* **411**, 215-219 (2001).
999. **02BU1558:** BUTCHER S.J., GRIMES J.M., MAKEYEV E.V., BAMFORD D.H., STUART D.I., "A mechanism for initiating RNA-dependent RNA polymerization", *Nature* **410**, 235-240 (2001).
1000. **02ZO1559:** ZOUNI A., WITT H.T., KERN J., FROMME P., KRAUß N., SAENGER W., ORTH P., "Crystal structure of photosystem II from *Synechococcus elongatus* at 3.8 Å resolution", *Nature* **409**, 739-743 (2001).
1001. **02GO1560:** GOMIS-RÜTH F.X., MONCALIAN G., PEREZ-LUQUE R., GONZALEZ A., CABEZON E., DE LA CRUZ F., COLL M., "The bacterial conjugation protein TrwB resembles ring helicases and F_1 -ATPase", *Nature* **409**, 637-641 (2001).
1002. **02GI1561:** GIANNINI C., DE CARO L., LAGOMARSINO S., CEDOLA A., DI FONZO S., JARK W., "X-ray waveguide as a new tool for 100 nm spatially resolved X-ray strain analysis", *Journal of Physics D* **34**, A40-A43 (2001).
1003. **02BA1562:** BALLAUFF M., "SAXS and SANS studies of polymer colloids", *Current Opinion in Colloid and Interface Science* **6**, 132-139 (2001).
1004. **02TA1563:** TAMURA K., INUI M., "Structural changes and the metal-non-metal transition in supercritical fluids", *Journal of Physics Condensed Matter* **13**, R337-R368 (2001).
1005. **02PO1564:** POLIZZI S., RIELLO P., BALERNA A., BENEDETTI A., "Nanostructure of Pd/SiO₂ supported catalysts", *Physical Chemistry - Chemical Physics* **3**, 4614-4619 (2001).

- 1006.**02PO1565**: POTTS P.J., ELLIS A.T., KREGSAMER P., MARSHALL J., STRELI C., WEST M., WOBRAUSCHEK P., "Atomic spectrometry update. X-ray fluorescence spectrometry", *Journal of Analytical Atomic Spectrometry* **16**, 1217-1237 (2001).
- 1007.**02NI1566**: NIELSEN U.G., JAKOBSEN H.J., SKIBSTED J., NORBY P., "Crystal structure of α -Mg₂V₂O₇ from synchrotron X-ray powder diffraction and characterization by ⁵¹V MAS NMR spectroscopy", *Journal of the Chemical Society Dalton Transactions*, 3214-3218 (2001).
- 1008.**02FO1567**: FOIS E., GAMBA A., TABACCHI G., QUARTIERI S., VEZZALINI G., "On the collective properties of water molecules in one-dimensional zeolitic channels", *Physical Chemistry - Chemical Physics* **3**, 4158-4163 (2001).
- 1009.**02RO1568**: ROUX M., SARRET G., PIGNOT-PAINTRAND I., FONTECAVE M., COVES J., "Mobilization of selenite by *Ralstonia metallidurans* CH34", *Applied and Environmental Microbiology* **67**, 769-773 (2001).
- 1010.**02VA1569**: VAN DEN ENT F., MØLLER-JENSEN J., AMOS L.A., GERDES K., LÖWE J., "F-actin-like filaments formed by plasmid segregation protein ParM", *EMBO Journal* **21**, 6935-6943 (2002).
- 1011.**02BA1570**: BAYLISS R., LITTLEWOOD T., STRAWN L.A., WENTE S.R., STEWART M., "GLFG and FxFG nucleoporins bind to overlapping sites on importin- β ", *Journal of Biological Chemistry* **277**, 50597-50606 (2002).
- 1012.**02KA1571**: KARATHANASSIS D., STAHELIN R.V., BRAVO J., PERISIC O., PACOLD C.M., CHO W., WILLIAMS R.L., "Binding of the PX domain of p47^{phox} to phosphatidylinositol 3,4-bisphosphate and phosphatidic acid is masked by an intramolecular interaction", *EMBO Journal* **21**, 5057-5068 (2002).
- 1013.**02CO1572**: COLLINS B.M., MCCOY A.J., KENT H.M., EVANS P.R., OWEN D.J., "Molecular architecture and functional model of the endocytic AP2 complex", *Cell* **109**, 523-535 (2002).
- 1014.**02BA1573**: BAYLISS R., LEUNG S.W., BAKER R.P., QUIMBY B.B., CORBETT A.H., STEWART M., "Structural basis for the interaction between NTF2 and nucleoporin FxFG repeats", *EMBO Journal* **21**, 2843-2853 (2002).
- 1015.**02BA1574**: BAKER A.M.E., ROBERTS T.M., STEWART M., "2.6 Å resolution crystal structure of helices of the motile major sperm protein (MSP) of *Caenorhabditis elegans*", *Journal of Molecular Biology* **319**, 491-499 (2002).
- 1016.**02CH1575**: CHAPIN RODRIGUEZ A., STOCK D., "Crystal structure of reverse gyrase: Insights into the positive supercoiling of DNA", *EMBO Journal* **21**, 418-426 (2002).
- 1017.**02CL1576**: CLEMONS JR W.M., BRODERSEN D.E., MCCUTCHEON J.P., MAY J.L.C., CARTER A.P., MORGAN-WARREN R.J., WIMBERLY B.T., RAMAKRISHNAN V., "Crystal structure of the 30 S ribosomal subunit from *Thermus thermophilus*: Purification, crystallization and structure determination", *Journal of Molecular Biology* **310**, 827-843 (2001).
- 1018.**02LO1577**: LÖWE J., CORDELL S.C., VAN DEN ENT F., "Crystal structure of the SMC head domain: An ABC ATPase with 900 residues antiparallel coiled-coil inserted", *Journal of Molecular Biology* **306**, 25-35 (2001).
- 1019.**02CO1578**: CORDELL S.C., LÖWE J., "Crystal structure of the bacterial cell division regulator MinD", *FEBS Letters* **492**, 160-165 (2001).
- 1020.**02ME1579**: MENZ R.I., LESLIE A.G.W., WALKER J.E., "The structure and nucleotide occupancy of bovine mitochondrial F₁-ATPase are not influenced by crystallisation at high concentrations of nucleotide", *FEBS Letters* **494**, 11-14 (2001).
- 1021.**02CO1580**: CORDELL S.C., ANDERSON R.E., LÖWE J., "Crystal structure of the bacterial cell division inhibitor MinC", *EMBO Journal* **20**, 2454-2461 (2001).
- 1022.**02LO1581**: LOVE J.D., GOOCH J.T., BENKO S., LI C., NAGY L., CHATTERJEE V.K.K., EVANS R.M., SCHWABE J.W.R., "The structural basis for the specificity of retinoid-X receptor-selective agonists: New insights into the role of helix H12", *Journal of Biological Chemistry* **277**, 11385-11391 (2002).
- 1023.**02SO1582**: SONDERMANN H., SCHEUFLER C., SCHNEIDER C., HÖHFELD J., HARTL F.U., MOAREFI I., "Structure of a Bag/Hsc70 complex: Convergent functional evolution of Hsp70 nucleotide exchange factors", *Science* **291**, 1553-1557 (2001).
- 1024.**02CA1583**: CARTER A.P., CLEMONS JR W.M., BRODERSEN D.E., MORGAN-WARREN R.J., HARTSCH T., WIMBERLY B.T., RAMAKRISHNAN V., "Crystal structure of an initiation factor bound to the 30S ribosomal subunit", *Science* **291**, 498-501 (2001).
- 1025.**02DO1584**: DOBBEK H., SVETLITCHNYI V., GREMER L., HUBER R., MEYER O., "Crystal structure of a carbon monoxide dehydrogenase reveals a [Ni-4Fe-5S] cluster", *Science* **293**, 1281-1285 (2001).

1026. **02WE1585**: WETZER B., BYK G., FREDERIC M., AIRIAU M., BLANCHE F., PITARD B., SCHERMAN D., “Reducible cationic lipids for gene transfer”, *Biochemical Journal* **356**, 747-756 (2001).
1027. **02TA1586**: TAN T.H.P., EDGERTON S.A.V., KUMARI R., MCALISTER M.S.B., ROWE S.M., NAGL S., PEARL L.H., SELKIRK M.E., BIANCO A.E., TOTTY N.F., ENGWERDA C., GRAY C.A., MEYER D.J., “Macrophage migration inhibitory factor of the parasitic nematode *Trichinella spiralis*”, *Biochemical Journal* **357**, 373-383 (2001).
1028. **02EL1587**: ELKINS J.M., CLIFTON I.J., HERNANDEZ H., DOAN L.X., ROBINSON C.V., SCHOFIELD C.J., HEWITSON K.S., “Oligomeric structure of proclavaminc acid amidino hydrolase: Evolution of a hydrolytic enzyme in clavulanic acid biosynthesis”, *Biochemical Journal* **366**, 423-434 (2002).
1029. **02HO1588**: HOUSTON D.R., EGGLESTON I., SYNSTAD B., EIJSINK V.G.H., VAN AALTEN D.M.F., “The cyclic dipeptide CI-4 [cyclo-(L-Arg-D-Pro)] inhibits family 18 chitinases by structural mimicry of a reaction intermediate”, *Biochemical Journal* **368**, 23-27 (2002).
1030. **02TH1589**: THOMAS C.C., DOWLER S., DEAK M., ALESSI D.R., VAN AALTEN D.M.F., “Crystal structure of the phosphatidylinositol 3,4-bisphosphate-binding pleckstrin homology (PH) domain of tandem PH-domain-containing protein 1 (TAPP1): Molecular basis of lipid specificity”, *Biochemical Journal* **358**, 287-294 (2001).
1031. **02BO1590**: BOURNE Y., ASTOUL C.H., ZAMBONI V., PEUMANS W.J., MENU-BOUAOUICHE L., VAN DAMME E.J.M., BARRE A., ROUGE P., “Structural basis for the unusual carbohydrate-binding specificity of jacalin towards galactose and mannose”, *Biochemical Journal* **364**, 173-180 (2002).
1032. **02HU1591**: HUIZINGA E.G., TSUJI S., ROMIJN R.A.P., SCHIPHORST M.E., DE GROOT P.G., SIXMA J.J., GROS P., “Structures of glycoprotein Iba and its complex with von Willebrand factor A1 domain”, *Science* **297**, 1176-1179 (2002).
1033. **02HU1592**: HUNT J.F., WEINKAUF S., HENRY L., FAK J.J., MCNICHOLAS P., OLIVER D.B., DEISENHOFER J., “Nucleotide control of interdomain interactions in the conformational reaction cycle of SecA”, *Science* **297**, 2018-2026 (2002).
1034. **02WI1593**: WILSON J.R., JING C., WALKER P.A., MARTIN S.R., HOWELL S.A., BLACKBURN G.M., GAMBLIN S.J., XIAO B., “Crystal structure and functional analysis of the histone methyltransferase SET7/9”, *Cell* **111**, 105-115 (2002).
1035. **02PR1594**: PRUZAN P., GOURDAIN D., CHERVIN J.C., “Pressure dependence of the ferroelectric-paraelectric transition temperature in KNBO₃. Comparison with the ice VII-VIII transition “, *High Pressure Research* **22**, 243-249 (2002).
1036. **02SO1595**: SOLOZHENKO V.L., “Synthesis of novel superhard phases in the B-C-N system “, *High Pressure Research* **22**, 519-524 (2002).
1037. **02GA1596**: GAUTHIER M., “Effects of uniaxial stress on X-ray diffraction spectra “, *High Pressure Research* **22**, 779-784 (2002).
1038. **02AN1597**: ANGELONI M., ARUTA C., BALESTRINO G., ORGIANI P., TEBANO A., MEDAGLIA P.G., “SrRuO₃ based heterostructures grown by pulsed laser deposition”, *European Physical Journal B* **29**, 561-566 (2002).
1039. **02GI1598**: GIULI G., PRATESI G., CIPRIANI C., PARIS E., “Iron local structure in tektites and impact glasses by extended X-ray absorption fine structure and high-resolution X-ray absorption near-edge structure spectroscopy”, *Geochimica et Cosmochimica Acta* **66**, 4347-4353 (2002).
1040. **02CU1599**: CUSSEN L.D., HØGHOJ P., ANDERSON I.S., “Neutron collimator with rectangular beam profile”, *Nuclear Instruments and Methods in Physics Research A* **460**, 374-380 (2001).
1041. **02RE1600**: RENAULT E., NAHON L., GARZELLA D., NUTARELLI D., DE NINNO G., HIRSCH M., COUPRIE M.E., “Transient absorption spectroscopy in biology using the Super-ACO storage ring FEL and the synchrotron radiation combination”, *Nuclear Instruments and Methods in Physics Research A* **475**, 617-624 (2001).
1042. **02DA1601**: DATTOLI G., DORIA A., GALLERANO G.P., GIANNESI L., HESCH K., MOSER H.O., OTTAVIANI P.L., PELLEGRIN E., ROSSMANITH R., STEININGER R., SAILE V., WÜST J., “Extreme ultraviolet (EUV) sources for lithography based on synchrotron radiation”, *Nuclear Instruments and Methods in Physics Research A* **474**, 259-272 (2001).
1043. **02CU1602**: CUSSEN L.D., VALE C.J., ANDERSON I.S., HØGHOJ P., “Tests of a silicon wafer based neutron collimator”, *Nuclear Instruments and Methods in Physics Research A* **471**, 392-397 (2001).
1044. **02GE1603**: GEORGSSON M., ANDERS W., KRÄMER D., BYRD J.M., “Design and commissioning of third harmonic cavities at BESSY II”, *Nuclear Instruments and Methods in Physics Research A* **469**, 373-381 (2001).

1045. **02BA1604**: BAHRDT J., FRENTROP W., GAUPP A., SCHEER M., GUDAT W., INGOLD G., SASAKI S., “Elliptically polarizing insertion devices at BESSY II”, Nuclear Instruments and Methods in Physics Research A **467-468**, 21-29 (2001).
1046. **02BI1605**: BISOGNANO J.J., “Approaches to lowering emittance in existing light sources”, Nuclear Instruments and Methods in Physics Research A **467-468**, 42-46 (2001).
1047. **02KI1606**: KITAMURA H., BIZEN T., HARA T., MARECHAL X., SEIKE T., TANAKA T., “Recent developments of insertion devices at SPring-8”, Nuclear Instruments and Methods in Physics Research A **467-468**, 110-113 (2001).
1048. **02WA1607**: WALLEN E., LEBLANC G., ERIKSSON M., “The MAX-Wiggler, a cold bore superconducting wiggler with 47 3.5 T poles”, Nuclear Instruments and Methods in Physics Research A **467-468**, 118-121 (2001).
1049. **02ER1608**: ERCAN ALP E., SINN H., ALATAS A., STURHAHN W., TOELLNER T.S., ZHAO J., SUTTER J., HU M., SHU D., SHVYDKO Y., “Source and optics considerations for new generation high-resolution inelastic X-ray spectrometers”, Nuclear Instruments and Methods in Physics Research A **467-468**, 617-622 (2001).
1050. **02MA1609**: MARUSHITA M., MITSUI T., FUKUDA T., TAKAHASHI M., INAMI T., KATAYAMA Y., SHIWAKU H., MIZUKI J., “Diamond double-crystal monochromator in Bragg geometry installed on BL-11XU at SPring-8”, Nuclear Instruments and Methods in Physics Research A **467-468**, 392-395 (2001).
1051. **02FI1610**: FIRSOV A., SVINTSOV A., ERKO A., GUDAT W., ASRYAN A., FERSTL M., SHAPOVAL S., ARISTOV V., “Crystal-based diffraction focusing elements for third-generation synchrotron radiation sources”, Nuclear Instruments and Methods in Physics Research A **467-468**, 366-369 (2001).
1052. **02KI1611**: KIM D.E., LEE H.G., SUH H.S., JUNG Y.G., PARK K.H., KIM J.Y., BAK J.S., “6 cm period Apple-II type elliptically polarized undulator at PLS”, Nuclear Instruments and Methods in Physics Research A **467-468**, 157-160 (2001).
1053. **02SC1612**: SCHMIDT T., INGOLD G., IMHOF A., PATTERSON B.D., PATTHEY L., QUITMANN C., SCHULZE-BRIESE C., ABELA R., “Insertion devices at the Swiss Light Source (phase I)”, Nuclear Instruments and Methods in Physics Research A **467-468**, 126-129 (2001).
1054. **02JU1613**: JU X., XIAN D.C., “Feasibility of macromolecular structure experiments operating at the 3W1 beamline of BSRF in the parasitic mode”, Nuclear Instruments and Methods in Physics Research A **467-468**, 1353-1357 (2001).
1055. **02NA1614**: NAVE C., “Sources, instrumentation and detectors for protein crystallography”, Nuclear Instruments and Methods in Physics Research A **467-468**, 1286-1293 (2001).
1056. **02RU1615**: RÜTT U., BENO M.A., STREMPFER J., JENNINGS G., KURTZ C., MONTANO P.A., “Diffractometer for high energy X-rays at the APS”, Nuclear Instruments and Methods in Physics Research A **467-468**, 1026-1029 (2001).
1057. **02KH1616**: KHOUNSARY A., MASER J., “A water-cooled X-ray monochromator for using off-axis undulator beam”, Nuclear Instruments and Methods in Physics Research A **467-468**, 654-658 (2001).
1058. **02OW1617**: OWENS A., BAVDAZ M., LISJUTIN I., PEACOCK A., SIIPIA H., ZATOLOKA S., “On the development of compound semiconductor thallium bromide detectors for astrophysics”, Nuclear Instruments and Methods in Physics Research A **458**, 413-417 (2001).
1059. **02RO1618**: ROUILLE G., BASSAN M., COMMEAUX C., DIDELEZ J.P., SCHAERF C., BELLINI V., BOCQUET J.P., CAPOGNI M., CASTOLDI M., ANGELO A.D., GERVINO G., GHIO F., GIROLAMI B., GUIDAL M., HOURANY E., KUNNE R., LEVI SANDRI P., LLERES A., MORICCIANI D., REBREYEND D., ZUCCHIATTI A., “A polarized HD target factory in Europe”, Nuclear Instruments and Methods in Physics Research A **464**, 428-432 (2001).
1060. **02FE1619**: FERNANDEZ P.B., LEE W.K., MILLS D.M., TAJIRI G., ASSOUFID L., “Double-undulator tests of a diamond monochromator at the Advanced Photon Source”, Nuclear Instruments and Methods in Physics Research A **459**, 347-353 (2001).
1061. **02CH1620**: CHOLEWA M., DILLON C., LAY P., PHILLIPS D., TALARICO T., LAI B., “High resolution nuclear and X-ray microprobes and their applications in single cell analysis”, Nuclear Instruments and Methods in Physics Research B **181**, 715-722 (2001).
1062. **02SA1621**: SANDNER W., “LSWAVE 2000: Lasers and short-wavelength applications”, Nuclear Instruments and Methods in Physics Research A **467-468**, 1458-1460 (2001).
1063. **02PE1622**: PELLICIONI M., SILARI M., ULRICI L., “Effective dose and organ doses due to gas bremsstrahlung from electron storage rings”, Nuclear Instruments and Methods in Physics Research A **457**, 438-446 (2001).

- 1064.**02GA1623**: GAMBARDELLA P., DALLMEYER A., MAITI K., MALAGOLI M.C., EBERHARDT W., KERN K., CARBONE C., “Ferromagnetism in one-dimensional monatomic metal chains”, *Nature* **416**, 301-304 (2002).
- 1065.**02JE1624**: JENSEN M.V.R.S., DYE D., JAMES K.E., KORSUNSKY A.M., ROBERTS S.M., REED R.C., “Residual stresses in a welded superalloy disc: Characterization using synchrotron diffraction and numerical process modeling”, *Metallurgical and Materials Transactions A* **33**, 2921-2931 (2002).
- 1066.**02MO1625**: MORAIS-CABRAL J.H., ZHOU Y., MACKINNON R., “Energetic optimization of ion conduction rate by the K⁺ selectivity filter”, *Nature* **414**, 37-42 (2001).
- 1067.**02DO1626**: DOVA E., STASSEN A.F., DRIESSEN R.A.J., SONNEVELD E., GOUBITZ K., PESCHAR R., HAASNOOT J.G., REEDIJK J., SCHENK H., “Structure determination of the [Fe(teec)₆](BF₄)₂ metal complex from laboratory and synchrotron X-ray powder diffraction data with grid-search techniques”, *Acta Crystallographica B* **57**, 531-538 (2001).
- 1068.**02FE1627**: FERRER J.L., “Automated data processing on beamline FIP (BM30A) at ESRF”, *Acta Crystallographica D* **57**, 1752-1753 (2001).
- 1069.**02WI1628**: WILD K., SINNING I., CUSACK S., “Crystal structure of an early protein-RNA assembly complex of the signal recognition particle”, *Science* **294**, 598-601 (2001).
- 1070.**02HA1629**: HARMS J., SCHLUENZEN F., ZARIVACH R., BASHAN A., GAT S., AGMON I., BARTELS H., FRANCESCHI F., YONATH A., “High resolution structure of the large ribosomal subunit from a mesophilic eubacterium”, *Cell* **107**, 679-688 (2001).
- 1071.**02CA1630**: CARR P.D., GUSTIN S.E., CHURCH A.P., MURPHY J.M., FORD S.C., MANN D.A., WOLTRING D.M., WALKER I., OLLIS D.L., YOUNG I.G., “Structure of the complete extracellular domain of the common β subunit of the human GM-CSF, IL-3, and IL-5 receptors reveals a novel dimer configuration”, *Cell* **104**, 291-300 (2001).
- 1072.**02SI1631**: SINGLETON M.R., SCAIFE S., WIGLEY D.B., “Structural analysis of DNA replication fork reversal by RecG”, *Cell* **107**, 79-89 (2001).
- 1073.**02TO1632**: TODONE F., BRICK P., WERNER F., WEINZIERL R.O.J., ONESTI S., “Structure of an archaeal homolog of the eukaryotic RNA polymerase II RPB4/RPB7 complex”, *Molecular Cell* **8**, 1137-1143 (2001).
- 1074.**02FR1633**: FRIBOURG S., BRAUN I.C., IZAURRALDE E., CONTI E., “Structural basis for the recognition of a nucleoporin FG repeat by the NTF2-like domain of the TAP/p15 mRNA nuclear export factor”, *Molecular Cell* **8**, 645-656 (2001).
- 1075.**02MA1634**: MAZZA C., OHNO M., SEGREF A., MATTAJ I.W., CUSACK S., “Crystal structure of the human nuclear cap binding complex”, *Molecular Cell* **8**, 383-396 (2002).
- 1076.**02RO1635**: ROUX M., MARICHAL C., PAILLAUD J.L., FERNANDEZ C., BAERLOCHER C., CHEZEAU J.M., “Structural investigation by multinuclear solid state NMR and X-ray diffraction of As-synthesized, dehydrated, and calcined AlPO₄-SOD”, *Journal of Physical Chemistry B* **105**, 9083-9092 (2001).
- 1077.**02KO1636**: KOGEJ K., EVMENENKO G., THEUNISSEN E., BERGHMANS H., REYNAERS H., “Investigation of structures in polyelectrolyte/surfactant complexes by X-ray scattering”, *Langmuir* **17**, 3175-3184 (2001).
- 1078.**02CA1637**: CASTRO-ROMAN F., PORTE G., LIGOURE C., “Smectic phase of fluid membranes decorated by amphiphilic copolymers”, *Langmuir* **17**, 5045-5058 (2001).
- 1079.**02MO1638**: MOFFAT K., “Time-resolved biochemical crystallography: A mechanistic perspective”, *Chemical Reviews* **101**, 1569-1581 (2001).
- 1080.**02CH1639**: CHU B., HSIAO B.S., “Small-angle X-ray scattering of polymers”, *Chemical Reviews* **101**, 1727-1761 (2001).
- 1081.**02DE1640**: DE GROOT F., “High-resolution X-ray emission and X-ray absorption spectroscopy”, *Chemical Reviews* **101**, 1779-1808 (2001).
- 1082.**02SA1641**: SARRET G., VANGRONVELD J., MANCEAU A., MUSSO M., D'HAEN J., MENTHONNEX J.J., HAZEMANN J.L., “Accumulation forms of Zn and Pb in *Phaseolus vulgaris* in the presence and absence of EDTA”, *Environmental Science and Technology* **35**, 2854-2859 (2001).
- 1083.**02NI1642**: NICOLET Y., DE LACEY A.L., VERNEDE X., FERNANDEZ V.M., HATCHIKIAN E.C., FONTECILLA-CAMPS J.C., “Crystallographic and FTIR spectroscopic evidence of changes in Fe coordination upon reduction of the active site of the Fe-only hydrogenase from *Desulfovibrio desulfuricans*”, *Journal of the American Chemical Society* **123**, 1596-1601 (2001).

1084. **02TE1643**: TECHERT S., WIESSNER A., SCHMATZ S., STAERK H., “Time-resolved fluorescence and solvatochromy of directly linked pyrene–DMA derivatives in alcoholic solution”, *Journal of Physical Chemistry B* **105**, 7579-7587 (2001).
1085. **02BI1644**: BINDA C., ANGELINI R., FEDERICO R., ASCENZI P., MATTEVI A., “Structural bases for inhibitor binding and catalysis in polyamine oxidase”, *Biochemistry* **40**, 2766-2776 (2001).
1086. **02MO1645**: MOWAT C.G., MOYSEY R., MILES C.S., LEYS D., DOHERTY M.K., TAYLOR P., WALKINSHAW M.D., REID G.A., CHAPMAN S.K., “Kinetic and crystallographic analysis of the key active site acid/base arginine in a soluble fumarate reductase”, *Biochemistry* **40**, 12292-12298 (2001).
1087. **02XI1646**: XIE H., GILBERT H.J., CHARNOCK S.J., DAVIES G.J., WILLIAMSON M.P., SIMPSON P.J., RAGHOTHAMA S., FONTES C.M.G.A., DIAS F.M.V., FERREIRA L.M.A., BOLAM D.N., “*Clostridium thermocellum* Xyn10B carbohydrate-binding module 22-2: The role of conserved amino acids in ligand binding”, *Biochemistry* **40**, 9167-9176 (2001).
1088. **02LA1647**: LANGAN P., NISHIYAMA Y., CHANZY H., “X-ray structure of mercerized cellulose II at 1 Å resolution”, *Biomacromolecules* **2**, 410-416 (2001).
1089. **02IM1648**: IMPEROR-CLERC M., HAMLEY I.W., DAVIDSON P., “Fast and easy flow-alignment technique of lyotropic liquid-crystalline hexagonal phases of block copolymers and surfactants”, *Macromolecules* **34**, 3503-3506 (2001).
1090. **02OU1649**: OUDENHUIJZEN M.K., BITTER J.H., KONINGSBERGER D.C., “The nature of the Pt–H bonding for strongly and weakly bonded hydrogen on platinum. A XAFS spectroscopy study of the Pt–H antibonding shaperesonance and Pt–H EXAFS”, *Journal of Physical Chemistry B* **105**, 4616-4622 (2001).
1091. **02LE1650**: LEMAUX S., BENSADDIK A., VAN DER EERDEN A.M.J., BITTER J.H., KONINGSBERGER D.C., “Understanding of enhanced oxygen storage capacity in $Ce_{0.5}Zr_{0.5}O_2$: The presence of an anharmonic pair distribution function in the Zr–O₂ subshell as analyzed by XAFS spectroscopy”, *Journal of Physical Chemistry B* **105**, 4810-4815 (2001).
1092. **02RO1651**: ROBERTS S.A., WEICHSEL A., QIU Y., SHELNUTT J.A., WALKER F.A., MONTFORT W.R., “Ligand-induced heme ruffling and bent NO geometry in ultra-high-resolution structures of nitrophorin 4”, *Biochemistry* **40**, 11327-11337 (2001).
1093. **02MO1652**: MOLENBROEK A.M., NØRSKOV J.K., CLAUSEN B.S., “Structure and reactivity of Ni–Au nanoparticle catalysts”, *Journal of Physical Chemistry B* **105**, 5450-5458 (2001).
1094. **02DU1653**: DUFOUR B., RANNOU P., FEDORKO P., DJURADO D., TRAVERS J.P., PRON A., “Effect of plasticizing dopants on spectroscopic properties, supramolecular structure, and electrical transport in metallic polyaniline”, *Chemistry of Materials* **13**, 4032-4040 (2001).
1095. **02QI1654**: QIAN M., NAHOUM V., BONICEL J., BISCHOFF H., HENRISSAT B., PAYAN F., “Enzyme-catalyzed condensation reaction in a mammalian α -amylase. High-resolution structural analysis of an enzyme–inhibitor complex”, *Biochemistry* **40**, 7700-7709 (2001).
1096. **02VA1655**: VALLET V., WAHLGREN U., SCHIMMELPFENNIG B., MOLL H., SZABO Z., GREENTHE I., “Solvent effects on uranium(VI) fluoride and hydroxide complexes studied by EXAFS and quantum chemistry”, *Inorganic Chemistry* **40**, 3516-3525 (2001).
1097. **02CA1656**: CARUSO R.A., SUSHA A., CARUSO F., “Multilayered titania, silica, and laponite nanoparticle coatings on polystyrene colloidal templates and resulting inorganic hollow spheres”, *Chemistry of Materials* **13**, 400-409 (2001).
1098. **02JA1657**: JANSEN B.J.P., RASTOGI S., MEIJER H.E.H., LEMSTRA P.J., “Rubber-modified glassy amorphous polymers prepared via chemically induced phase separation. 2. Mode of microscopic deformation studied by in-situ small-angle X-ray scattering during tensile deformation”, *Macromolecules* **34**, 4007-4018 (2001).
1099. **02ZH1658**: ZHARKOV D.O., GOLAN G., GILBOA R., FERNANDES A.S., GERCHMAN S.E., KYCIA J.H., RIEGER R.A., GROLLMAN A.P., SHOHAM G., “Structural analysis of an *Escherichia coli* endonuclease VIII covalent reaction intermediate”, *EMBO Journal* **21**, 789-800 (2002).
1100. **02CH1659**: CHEREZOV V., QIU H., PECTOR V., VANDENBRANDEN M., RUYSSCHAERT J.M., CAFFREY M., “Biophysical and transfection studies of the diC₁₄-amidine/DNA complex”, *Biophysical Journal* **82**, 3105-3117 (2002).
1101. **02CH1660**: CHEREZOV V., FERSI H., CAFFREY M., “Crystallization screens: Compatibility with the lipidic cubic phase for *in meso* crystallization of membrane protein”, *Biophysical Journal* **81**, 225-242 (2001).

- 1102.**02BU1661**: BUDAYOVA-SPANO M., LACROIX M., THIELENS N.M., ARLAUD G.J., FONTECILLA-CAMPS J.C., GABORIAUD C., “The crystal structure of the zymogen catalytic domain of complement protease C1r reveals that a disruptive mechanical stress is required to trigger activation of the C1 complex”, *EMBO Journal* **21**, 231-239 (2002).
- 1103.**02BI1662**: BIEGER B., ESSEN L.O., “Structural analysis of adenylate cyclases from *Trypanosoma brucei* in their monomeric state”, *EMBO Journal* **20**, 433-445 (2001).
- 1104.**02CA1663**: CABEZON E., RUNSWICK M.J., LESLIE A.G.W., WALKER J.E., “The structure of bovine IF₁, the regulatory subunit of mitochondrial F-ATPase “, *EMBO Journal* **20**, 6990-6996 (2001).
- 1105.**02CE1664**: CESCHINI S., KEELEY A., MCALISTER M.S.B., ORAM M., PHELAN J., PEARL L.H., TSANEVA I.R., BARRETT T.E., “Crystal structure of the fission yeast mitochondrial Holliday junction resolvase Ydc2 “, *EMBO Journal* **20**, 6601-6611 (2001).
- 1106.**02DI1665**: DIPROSE J.M., BURROUGHS J.N., SUTTON G.C., GOLDSMITH A., GOUET P., MALBY R., OVERTON I., ZIENTARA S., MERTENS P.P.C., STUART D.I., GRIMES J.M., “Translocation portals for the substrates and products of a viral transcription complex: The bluetongue virus core”, *EMBO Journal* **20**, 7229-7239 (2001).
- 1107.**02HA1666**: HASSLER M., RICHMOND T.J., “The B-box dominates SAP-1–SRF interactions in the structure of the ternary complex”, *EMBO Journal* **20**, 3018-3028 (2001).
- 1108.**02KL1667**: KLICHE W., FUJITA-BECKER S., KOLLMAR M., MANSTEIN D.J., KULL F.J., “Structure of a genetically engineered molecular motor”, *EMBO Journal* **20**, 40-46 (2001).
- 1109.**02KI1668**: KITADOKORO K., BORDO D., GALLI G., PETRACCA R., FALUGI F., ABRIGNANI S., GRANDI G., BOLOGNESI M., “CD81 extracellular domain 3D structure: Insight into the tetraspanin superfamily structural motifs”, *EMBO Journal* **20**, 12-18 (2001).
- 1110.**02ME1669**: MEIER M., JANOSIK M., KERY V., KRAUS J.P., BURKHARD P., “Structure of human cystathionine β-synthase: A unique pyridoxal 5'-phosphate-dependent heme protein”, *EMBO Journal* **20**, 3910-3916 (2001).
- 1111.**02MI1670**: MICHEL F., SOLER-LOPEZ M., PETOSA C., CRAMER P., SIEBENLIST U., MÜLLER C.W., “Crystal structure of the ankyrin repeat domain of Bcl-3: A unique member of the IκB protein family “, *EMBO Journal* **20**, 6180-6190 (2001).
- 1112.**02MI1671**: MILANI L.M., PESCE A., OUELLET Y., ASCENZI P., GUERTIN M., BOLOGNESI M., “*Mycobacterium tuberculosis* hemoglobin N displays a protein tunnel suited for O₂ diffusion to the heme”, *EMBO Journal* **20**, 3902-3909 (2001).
- 1113.**02PE1672**: PENEFF C., FERRARI P., CHARRIER V., TABURET Y., MONNIER C., ZAMBONI V., WINTER J., HARNOIS M., FASSY F., BOURNE Y., “Crystal structures of two human pyrophosphorylase isoforms in complexes with UDPGlc(Gal)NAc: Role of the alternatively spliced insert in the enzyme oligomeric assembly and active site architecture “, *EMBO Journal* **20**, 6191-6202 (2001).
- 1114.**02PI1673**: PIOLETTI M., SCHLÜNZEN F., HARMS J., ZARIVACH R., GLÜHMANN M., AVILA H., BASHAN A., BARTELS H., AUERBACH T., JACOBI C., HARTSCH T., YONATH A., FRANCESCHI F., “Crystal structures of complexes of the small ribosomal subunit with tetracycline, edeine and IF3 “, *EMBO Journal* **20**, 1829-1839 (2001).
- 1115.**02ST1674**: STAMMERS D.K., REN J., LESLIE K., NICHOLS C.E., LAMB H.K., COCKLIN S., DODDS A., HAWKINS A.R., “The structure of the negative transcriptional regulator NmrA reveals a structural superfamily which includes the short-chain dehydrogenase/reductases”, *EMBO Journal* **20**, 6619-6626 (2002).
- 1116.**02ST1675**: STEHLIN C., WURTZ J.M., STEINMETZ A., GREINER E., SCHÜLE R., MORAS D., RENAUD J.P., “X-ray structure of the orphan nuclear receptor RORβ ligand-binding domain in the active conformation “, *EMBO Journal* **20**, 5822-5831 (2001).
- 1117.**02VA1676**: VANDEPUTTE-RUTTEN L., ARJEN-KRAMER R., KROON J., DEKKER N., EGMOND M.R., GROS P., “Crystal structure of the outer membrane protease OmpT from *Escherichia coli* suggests a novel catalytic site”, *EMBO Journal* **20**, 5033-5039 (2001).
- 1118.**02VA1677**: VAN TILBEURGH H., LE COQ D., DECLERCK N., “Crystal structure of an activated form of the PTS regulation domain from the LicT transcriptional antiterminator”, *EMBO Journal* **20**, 3789-3799 (2001).
- 1119.**02BA1678**: BABANOV Y.A., ZAYARNAYA T.Y., REICH T., FUNKE H., “EXAFS study of U(VI) compounds: A new approach to data analysis”, In: "Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources" (NEA, OECD, 2002) pp. 105-116.

1120. **02FU1679**: FUNKE H., BÖTTGER H., REICH T., HENNIG C., ROßBERG A., “A SPLICE program to connect two different EXAFS spectra of the same sample”, In: "Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources - Workshop Proceedings" (NEA, OECD, 2002) pp. 229-235.
1121. **02HE1680**: HENNIG C., REICH T., FUNKE H., ROßBERG A., RUTSCH M., BERNHARD G., “Analysis of atomic distances in inaccurately determined heavy-atom crystal structures using EXAFS spectroscopy”, In: "Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources - Workshop Proceedings" (NEA, OECD, 2002) pp. 237-244.
1122. **02ZA1681**: ZAYARNAYA T.Y., REICH T., HENNIG C., FUNKE H., “Application of the Tikhonov regularisation method to the EXAFS analysis of $\text{UO}_2(\text{H}_2\text{AsO}_4)_2 \times \text{H}_2\text{O}$ ”, In: "Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources - Workshop Proceedings" (NEA, OECD, 2002) pp. 359-366.
1123. **02ME1682**: MERROUN M., HENNIG C., ROßBERG A., REICH T., NICOLAI R., HEISE K.H., SELENSKA-POBELL S., “Characterization of uranium (VI) complexes formed by different bacteria relevant to uranium mining waste piles”, In: "Uranium in the aquatic environment" MERKEL B. et al. (Eds.) (Springer Verlag, 2002) pp. 505-511.
1124. **02SC1683**: SCHELL N., BÖTTIGER J., MATZ W., CHEVALLIER J., PETERSEN J., ANDREASEN K.P., JENSEN T., “New possibilities of characterizing growing sputter-deposited thin films”, In: "Proceedings of the Ninth Annual International Conference on Composite Engineering ICCE/9" HUI D. (Ed.) (2002) pp. 697-698.
1125. **02HE1684**: HENNIG C., REICH T., DÄHN R., SCHEIDEGGER A.M., “Structure of uranium sorption complexes at montmorillonite edge sites”, *Radiochimica Acta* **90**, 653-657 (2002).
1126. **02GE1685**: GERAEDTS K., BRUGGEMAN C., MAES A., VAN LOON L.R., ROßBERG A., REICH T., “Evidence for the existence of Tc(IV) – humic substance species by X-ray absorption near-edge spectroscopy”, *Radiochimica Acta* **90**, 879-884 (2002).
1127. **02TH1686**: THIELE E., BRETSCHNEIDER J., BUQUE C., SCHELL N., SCHWAB A., HOLSTE C., “Internal strains in single grains of fatigued polycrystalline nickel”, *Materials Science Forum* **404-407**, 823-828 (2002).
1128. **02PF1687**: PFEIFFER F., MENNICKE U., SALDITT T., “Waveguide-enhanced scattering from thin biomolecular films”, *Journal of Applied Crystallography* **35**, 163-167 (2002).
1129. **02PF1688**: PFEIFFER F., SALDITT T., DAVID C., “Reflection of waveguided X-rays in two-dimensional nanostructures”, *Journal of Applied Crystallography* **35**, 430-433 (2002).
1130. **02DA1689**: DÄHN R., SCHEIDEGGER A.M., MANCEAU A., CURTI E., BAEYENS B., BRADBURY M.H., CHATEIGNER D., “Th uptake on montmorillonite: A powder and polarized extended X-ray absorption fine structure (EXAFS) study”, *Journal of Colloid and Interface Science* **249**, 8-21 (2002).
1131. **02SC1690**: SCHELL N., MATZ W., BÖTTIGER J., CHEVALLIER J., KRINGHØJ P., “Development of texture in TiN films by use of *in situ* synchrotron X-ray scattering”, *Journal of Applied Physics* **91**, 2037-2044 (2002).
1132. **02KL1691**: KLEMM R., THIELE E., HOLSTE C., ECKERT J., SCHELL N., “Thermal stability of grain structure and defects in submicrocrystalline and nanocrystalline nickel”, *Scripta Materialia* **46**, 685-690 (2002).
1133. **02SC1692**: SCHMEIDE K., POMPE S., REICH T., HENNIG C., FUNKE H., ROßBERG A., GEIPEL G., BRENDLER V., HEISE K.H., BERNHARD G., “Interaction of neptunium(IV) with humic substances studied by XAFS spectroscopy”, In: "Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources" (NEA, OECD, 2002) pp. 287-294.
1134. **02DA1693**: DÄHN R., SCHEIDEGGER A.M., MANCEAU A., BAEYENS B., BRADBURY M.H., “Local structure of Th complexes on montmorillonite clay mineral determined by extended X-ray absorption fine structure (EXAFS) spectroscopy”, In: "Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources" (NEA, OECD, 2002) pp. 75-81.
1135. **02TS1694**: TSUSHIMA S., REICH T., “Quantum chemical calculations on structures of actinide complexes”, In: "Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources" (NEA, OECD, 2002) pp. 53-61.
1136. **02GE1696**: GERAKE K., FARQUHARSON M.J., BRADLEY D.A., “Concentrations of Fe, Cu and Zn in breast tissue: A synchrotron XRF study”, *Physics in Medicine and Biology* **47**, 2327-2339 (2002).
1137. **02BO1697**: BOLVIN H., WAHLGREN U., MOLL H., REICH T., GEIPEL G., FANGHÄNEL T., GREENTHE I., “On the structure of Np(VI) and Np(VII) species in alkaline solution studied by EXAFS and quantum chemical methods”, *Journal of Physical Chemistry A* **105**, 11441-11445 (2001).
1138. **02TA1698**: TAYLOR P., DORNAN J., CARRELLO A., MINCHIN R.F., RATAJCZAK T., WALKINSHAW M.D., “Two structures of cyclophilin 40: Folding and fidelity in the TPR domains”, *Structure* **9**, 431-438 (2001).

1139. **02PI1699**: PIKE A.C.W., BRZOZOWSKI A.M., WALTON J., HUBBARD R.E., THORSELL A.G., LI Y.L., GUSTAFSSON J.A., CARLQUIST M., “Structural insights into the mode of action of a pure antiestrogen”, *Structure* **9**, 145-153 (2001).
1140. **02DA1700**: DAVIES T.G., TUNNAH P., MEIJER L., MARKO D., EISENBRAND G., ENDICOTT J.A., NOBLE M.E.M., “Inhibitor binding to active and inactive CDK2: The crystal structure of CDK2-cyclin A/indirubin-5-sulphonate”, *Structure* **9**, 389-397 (2001).
1141. **02SE1701**: SEEVERS P.R., LEWIS R.J., BRANNIGAN J.A., VERSCHUEREN K.H.G., MURSHUDOV G.N., WILKINSON A.J., “Structure of the *Bacillus cell* fate determinant SpoIIAA in phosphorylated and unphosphorylated forms”, *Structure* **9**, 605-614 (2001).
1142. **02LA1702**: LARSSON K.M., ANDERSSON J., SJÖBERG B.M., NORDLUND P., LOGAN D.T., “Structural basis for allosteric substrate specificity regulation in anaerobic ribonucleotide reductases”, *Structure* **9**, 739-750 (2001).
1143. **02CR1703**: CRONET P., PETERSEN J.F.W., FOLMER R., BLOMBERG N., SJÖBLOM K., KARLSSON U., LINDSTEDT E.L., BAMBERG K., “Structure of the PPAR α and γ ligand binding domain in complex with AZ 242; ligand selectivity and agonist activation in the PPAR family”, *Structure* **9**, 699-706 (2001).
1144. **02SP1704**: SPALLAROSSA A., DONAHUE J.L., LARSON T.J., BOLOGNESI M., BORDO D., “*Escherichia coli* GlpE Is a prototype sulfurtransferase for the single-domain rhodanese homology superfamily”, *Structure* **9**, 1117-1125 (2001).
1145. **02PR1705**: PRATES J.A.M., TARBOURIECH N., CHARNOCK S.J., FONTES C.M.G.A., FERREIRA L.M.A., DAVIES G.J., “The structure of the feruloyl esterase module of xylanase 10B from *Clostridium thermocellum* provides insights into substrate recognition”, *Structure* **9**, 1183-1190 (2001).
1146. **02BA1706**: BAX B., CARTER P.S., LEWIS C., GUY A.R., BRIDGES A., TANNER R., PETTMAN G., MANNIX C., CULBERT A.A., BROWN M.J.B., SMITH D.G., REITH A.D., “The structure of phosphorylated GSK-3 β complexed with a peptide, FRATtide, that inhibits β -catenin phosphorylation”, *Structure* **9**, 1143-1152 (2001).
1147. **02TA1707**: TANNER B.K., HASE T.P.A., CLARKE J., PAPE I., LI-BASSI A., FULTHORPE B.D., “High resolution X-ray scattering from nanotechnology materials”, *Applied Surface Science* **182**, 202-208 (2001).
1148. **02CE1708**: CERVELLINO A., HAIBACH T., STEURER W., “Structure solution of the basic decagonal Al-Co-Ni phase by the atomic surfaces modelling method”, *Acta Crystallographica B* **58**, 8-33 (2002).
1149. **02NO1709**: NOWELL H., ATTFIELD J.P., COLE J.C., “The use of restraints in Rietveld refinement of molecular compounds; a case study using the crystal structure determination of tryptamine free base”, *Acta Crystallographica B* **58**, 835-840 (2002).
1150. **02WE1710**: WEBER T., BÜRGI H.B., “Determination and refinement of disordered crystal structures using evolutionary algorithms in combination with Monte Carlo methods”, *Acta Crystallographica A* **58**, 526-540 (2002).
1151. **02JO1711**: JOHNSTON J.C., DAVID W.I.F., MARKVARDSEN A.J., SHANKLAND K., “A hybrid Monte Carlo method for crystal structure determination from powder diffraction data”, *Acta Crystallographica A* **58**, 441-447 (2002).
1152. **02KO1712**: KOLSTAD G., SYNSTAD B., EIJSINK V.G.H., VAN AALTEN D.M.F., “Structure of the D140N mutant of chitinase B from *Serratia marcescens* at 1.45 Å resolution”, *Acta Crystallographica D* **58**, 377-379 (2002).
1153. **02KR1713**: KRZYWDA S., BRZOZOWSKI A.M., KARATA K., OGURA T., WILKINSON A.J., “Crystallization of the AAA domain of the ATP-dependent protease FtsH of *Escherichia coli*”, *Acta Crystallographica D* **58**, 1066-1067 (2002).
1154. **02LO1714**: LORBER B., THEOBALD-DIETRICH A., CHARRON C., SAUTER C., NG J.D., ZHU D.W., GIEGE R., “From conventional crystallization to better crystals from space: A review on pilot crystallogeneses studies with aspartyl-tRNA synthetases”, *Acta Crystallographica D* **58**, 1674-1680 (2002).
1155. **02ME1715**: MERCKEL M.C., KAJANDER T., DEACON A.M., THOMPSON A., GROSSMANN J.G., KALKKINEN N., GOLDMAN A., “3-Carboxy-*cis,cis*-muconate lactonizing enzyme from *Neurospora crassa*: MAD phasing with 80 selenomethionines”, *Acta Crystallographica D* **58**, 727-734 (2002).
1156. **02MC1716**: MCAULEY K.E., JIA-XING Y., DODSON E.J., LEHMBECK J., OSTERGAARD P.R., WILSON K.S., “A quick solution: *Ab initio* structure determination of a 19 kDa metalloproteinase using *ACORN*”, *Acta Crystallographica D* **57**, 1571-1578 (2001).
1157. **02HA1717**: HARKIOLAKI M., BRZOZOWSKI A.M., GONZALEZ-PACANOWSKA D., HIDALGO-ZARCO F., WILSON K.S., “New crystal forms of *Trypanosoma cruzi* dUTPase”, *Acta Crystallographica D* **57**, 915-917 (2001).

1158. **02NI1718**: NICHOLS C.E., REN J., LAMB H., HALDANE F., HAWKINS A.R., STAMMERS D.K., "Identification of many crystal forms of *Aspergillus nidulans* dehydroquinase synthase", *Acta Crystallographica D* **57**, 306-309 (2001).
1159. **02CA1719**: CARVALHO A.L., DIAS J.M., SANZ L., ROMERO A., CALVETE J.J., ROMÃO M.J., "Purification, crystallization and identification by X-ray analysis of a prostate kallikrein from horse seminal plasma", *Acta Crystallographica D* **57**, 1180-1183 (2001).
1160. **02GO1720**: GOPAL B., PAPA VINASASUNDARAM K.G., COLSTON M.J., DODSON G., HAIRE L.F., "Crystallization and preliminary X-ray diffraction studies on the N-utilizing substance A (NusA) from *Mycobacterium tuberculosis*", *Acta Crystallographica D* **57**, 1187-1188 (2001).
1161. **02PA1721**: PAZY Y., LAITINEN O.H., RAVOY B., KULOMAA M.S., WILCHEK M., BAYER E.A., LIVNAH O., "Crystallization and preliminary X-ray analysis of W120K mutant of streptavidin", *Acta Crystallographica D* **57**, 1885-1886 (2001).
1162. **02DE1722**: DECLERCQ J.P., EVRARD C., "A twinned monoclinic crystal form of human peroxiredoxin 5 with eight molecules in the asymmetric unit", *Acta Crystallographica D* **57**, 1829-1835 (2001).
1163. **02JA1723**: JANOSIK M., MEIER M., KERY V., OLIVERIUSOVA J., BURKHARD P., KRAUS J.P., "Crystallization and preliminary X-ray diffraction analysis of the active core of human recombinant cystathionine β -synthase: An enzyme involved in vascular disease", *Acta Crystallographica D* **57**, 289-291 (2001).
1164. **02EN1724**: ENNIFAR E., WALTER P., DUMAS P., "An efficient method for solving RNA structures: MAD phasing by replacing magnesium with zinc", *Acta Crystallographica D* **57**, 330-332 (2001).
1165. **02CI1725**: CIANCI M., RIZKALLAH P.J., OLCZAK A., RAFTERY J., CHAYEN N.E., ZAGALSKY P.F., HELLIWELL J.R., "Structure of lobster apocrustacyanin A₁ using softer X-rays", *Acta Crystallographica D* **57**, 1219-1229 (2001).
1166. **02EG1726**: EGEA P.F., MORAS D., "Purification and crystallization of the human RXR α ligand-binding domain-9-cisRA complex", *Acta Crystallographica D* **57**, 434-437 (2001).
1167. **02CO1727**: COVACEUSZACH S., CATTANEO A., LAMBA D., "Purification, crystallization and preliminary X-ray analysis of the Fab fragment from MNAC13, a novel antagonistic anti-tyrosine kinase A receptor monoclonal antibody", *Acta Crystallographica D* **57**, 1307-1309 (2001).
1168. **02PI1728**: PILLET S., SOUHASSOU M., LECOMTE C., SCHWARZ K., BLAHA P., RERAT M., LICHANOT A., ROVERSI P., "Recovering experimental and theoretical electron densities in corundum using the multipolar model: IUCr Multipole Refinement Project", *Acta Crystallographica D* **57**, 290-303 (2001).
1169. **02SA1729**: SANCHEZ J.F., HOH F., STRUB M.P., STRUB J.M., VAN DORSSELAER A., LEHRER R., GANZ T., CHAVANIEU A., CALAS B., DUMAS C., AUMELAS A., "Expression, purification, crystallization and preliminary X-ray analysis of the cathelicidin motif of the protegrin-3 precursor", *Acta Crystallographica D* **57**, 1677-1679 (2001).
1170. **02SI1730**: SINGLETON M.R., SCAIFE S., RAVEN N.D., WIGLEY D.B., "Crystallization and preliminary X-ray analysis of RecG, a replication-fork reversal helicase from *Thermotoga maritima* complexed with a three-way DNA junction", *Acta Crystallographica D* **57**, 1695-1696 (2001).
1171. **02DA1731**: DAVIS S.J., IKEMIZU S., COLLINS A.V., FENNELLY J.A., HARLOS K., JONES E.Y., STUART D.I., "Crystallization and functional analysis of a soluble deglycosylated form of the human costimulatory molecule B7-1", *Acta Crystallographica D* **57**, 605-608 (2001).
1172. **02SA1732**: SABINI E., WILSON K.S., DANIELSEN S., SCHÜLEIN M., DAVIES G.J., "Oligosaccharide binding to family 11 xylanases: Both covalent intermediate and mutant product complexes display ^{2,5}B conformations at the active centre", *Acta Crystallographica D* **57**, 1344-1347 (2001).
1173. **02PE1733**: PERSSON R., HARKIOLAKI M., MCGEEHAN J., WILSON K.S., "Crystallization and preliminary crystallographic analysis of deoxyuridine 5'-triphosphate nucleotidohydrolase from *Bacillus subtilis*", *Acta Crystallographica D* **57**, 876-878 (2001).
1174. **02MI1734**: MILANI M., ANDOLFI L., CANNISTRARO S., VERBEET M.P., BOLOGNESI M., "The 1.6 Å resolution crystal structure of a mutant plastocyanin bearing a 21-25 engineered disulfide bridge", *Acta Crystallographica D* **57**, 1735-1738 (2001).
1175. **02CH1735**: CHARRON C., ROY H., LORBER B., KERN D., GIEGE R., "Crystallization and preliminary X-ray diffraction data of the second and archaeobacterial-type aspartyl-tRNA synthetase from *Thermus thermophilus*", *Acta Crystallographica D* **57**, 1177-1179 (2001).

1176. **02DO1736**: DODSON E.J., “Using electron-microscopy images as a model for molecular replacement”, *Acta Crystallographica D* **57**, 1405-1409 (2001).
1177. **02KE1737**: KEMP L.E., BOND C.S., HUNTER W.N., “Crystallization and preliminary X-ray diffraction studies of recombinant *Escherichia coli* 4-diphosphocytidyl-2-C-methyl-D-erythritol synthetase”, *Acta Crystallographica D* **57**, 1189-1191 (2001).
1178. **02CO1738**: COELHO A.V., MACEDO S., MATIAS P.M., THOMPSON A.W., LEGALL J., CARRONDO M.A., “Structure determination of bacterioferritin from *Desulfovibrio desulfuricans* by the MAD method at the Fe K-edge”, *Acta Crystallographica D* **57**, 326-329 (2001).
1179. **02NA1739**: NAVARRO POULSEN J.C., HARRIS P., JENSEN K.F., LARSEN S., “Selenomethionine substitution of orotidine-5'-monophosphate decarboxylase causes a change in crystal contacts and space group”, *Acta Crystallographica D* **57**, 1251-1259 (2001).
1180. **02PO1740**: POUS J., MALLORQUI-FERNANDEZ G., PERACAUOLA R., TERZYAN S.S., FUTAMI J., TADA H., TAMADA H., SENO M., DE LLORENS R., GOMIS-RÜTH F.X., COLL M., “Three-dimensional structure of human RNase 1ΔN7 at 1.9 Å resolution”, *Acta Crystallographica D* **57**, 498-505 (2001).
1181. **02GO1741**: GOMIS-RÜTH F.X., COLL M., “Solving a 300 kDa multimeric protein by low-resolution MAD phasing and averaging/phase extension”, *Acta Crystallographica D* **57**, 800-805 (2001).
1182. **02VA1742**: VARROT A., SCHÜLEIN M., FRUCHARD S., DRIGUEZ H., DAVIES G.J., “Atomic resolution structure of endoglucanase Cel5A in complex with methyl 4,4^{II},4^{III},4^{IV}-tetrathio- α -cellopentose highlights the alternative binding modes targeted by substrate mimics”, *Acta Crystallographica D* **57**, 1739-1742 (2001).
1183. **02SC1743**: SCHUBERT H.L., RAUX E., WARREN M.J., WILSON K.S., “Optimization of Met8p crystals through protein-storage buffer manipulation”, *Acta Crystallographica D* **57**, 867-869 (2001).
1184. **02BO1744**: BOND C.S., SHAW M.P., ALPHEY M.S., HUNTER W.N., “Structure of the macrocycle thiostrepton solved using the anomalous dispersion contribution of sulfur”, *Acta Crystallographica D* **57**, 755-758 (2001).
1185. **02LO1745**: LO LEGGIO L., DAL DEGAN F., POULSEN P., OXENBØLL SØRENSEN S., HARLOW K., HARRIS P., LARSEN S., “Crystallization and preliminary X-ray analysis of maltose O-acetyltransferase”, *Acta Crystallographica D* **57**, 1915-1918 (2001).
1186. **02BA1746**: BÄCKSTRÖM S., HUANG S.H., WOLF-WATZ M., XIE X.Q., HÄRD T., GRUNDSTRÖM T., SAUER U.H., “Crystallization and preliminary studies of the DNA-binding runt domain of AML1”, *Acta Crystallographica D* **57**, 269-271 (2001).
1187. **02BE1747**: BENINI S., DEGRASSI G., KRASTANOVA I., LAMBA D., VENTURI V., “Purification, crystallization and preliminary X-ray analysis of an acetylxylan esterase from *Bacillus pumilus*”, *Acta Crystallographica D* **57**, 1906-1907 (2001).
1188. **02LE1748**: LEIROS I., LANES O., SUNDHEIM O., HELLAND R., SMALÅS A.O., WILLASSEN N.P., “Crystallization and preliminary X-ray diffraction analysis of a cold-adapted uracil-DNA glycosylase from Atlantic cod (*Gadus morhua*)”, *Acta Crystallographica D* **57**, 1706-1708 (2001).
1189. **02ST1749**: STURROCK S.S., DRYDEN D.T.F., ATANASIU C., DORNAN J., BRUCE S., CRONSHAW A., TAYLOR P., WALKINSHAW M.D., “Crystallization and preliminary X-ray analysis of ocr, the product of gene 0.3 of bacteriophage T7”, *Acta Crystallographica D* **57**, 1652-1654 (2001).
1190. **02PR1750**: PRINCE S.M., FERON C., JANSSENS D., LOBET Y., ACHTMAN M., KUSECEK B., BULLOUGH P.A., DERRICK J.P., “Expression, refolding and crystallization of the OpcA invasin from *Neisseria meningitidis*”, *Acta Crystallographica D* **57**, 1164-1166 (2001).
1191. **02NA1751**: NASTOPOULOS V., VALLONE B., POLITI L., SCOTTO D'ABUSCO A., SCANDURRA R., TSERNOGLOU D., “Crystallization and X-ray diffraction measurements of a thermophilic archaeal recombinant amidase from *Sulfolobus solfataricus* MT4”, *Acta Crystallographica D* **57**, 1036-1037 (2001).
1192. **02WO1752**: WOUTERS J., GEORIS J., ENGHER D., VANDENHAUTE J., DUSART J., FRERE J.M., DEPIEREUX E., CHARLIER P., “Crystallographic analysis of family 11 endo- β -1,4-xylanase Xyl1 from *Streptomyces* sp. S38”, *Acta Crystallographica D* **57**, 1813-1819 (2001).
1193. **02ME1753**: MEINHART A., ALINGS C., STRÄTER N., CAMACHO A.G., ALONSO J.C., SAENGER W., “Crystallization and preliminary X-ray diffraction studies of the $\epsilon\zeta$ addiction system encoded by *Streptococcus pyogenes* plasmid pSM19035”, *Acta Crystallographica D* **57**, 745-747 (2001).
1194. **02CH1754**: CHARNOCK S.J., BROWN I.E., TURKENBURG J.P., BLACK G.W., DAVIES G.J., “Characterization of a novel pectate lyase, Pel10A, from *Pseudomonas cellulosa*”, *Acta Crystallographica D* **57**, 1141-1143 (2001).

1195. **02SE1755**: SEAVERS P.R., LEWIS R.J., BRANNIGAN J.A., WILKINSON A.J., “Crystallization and preliminary X-ray analysis of the sporulation factor SpoIIAA in its native and phosphorylated forms”, *Acta Crystallographica D* **57**, 292-295 (2001).
1196. **02MO1756**: MOROZ O.V., ANTSON A.A., MURSHUDOV G.N., MAITLAND N.J., DODSON G.G., WILSON K.S., SKIBSHØJ I., LUKANIDIN E.M., BRONSTEIN I.B., “The three-dimensional structure of human S100A12”, *Acta Crystallographica D* **57**, 20-29 (2001).
1197. **02CA1757**: CARDONA M., RUF T., “Phonon self-energies in semiconductors: Anharmonic and isotopic contributions”, *Solid State Communications* **117**, 201-212 (2001).
1198. **02DA1758**: DAILLANT J., MORA S., FRADIN C., ALBA M., BRASLAU A., LUZET D., “Structure and fluctuations of liquid surfaces and interfaces”, *Applied Surface Science* **182**, 223-230 (2001).
1199. **02AR1759**: ARNAULT J.C., KNOLL A., SMIGIEL E., CORNET A., “Roughness fractal approach of oxidised surfaces by AFM and diffuse X-ray reflectometry measurements”, *Applied Surface Science* **171**, 189-196 (2001).
1200. **02WO1760**: WOODRUFF D.P., “Chemical-state-specific surface structure determination”, *Surface Science* **482-485**, 49-59 (2001).
1201. **02SI1761**: SINHA S.K., “The impact of synchrotron radiation on nanoscience”, *Applied Surface Science* **182**, 176-185 (2001).
1202. **02OE1762**: ÖSTERLE W., ROOCH H., PYZALLA A., WANG L., “Investigation of white etching layers on rails by optical microscopy, electron microscopy, X-ray and synchrotron X-ray diffraction”, *Materials Science and Engineering A* **303**, 150-157 (2001).
1203. **02FR1763**: FRICK B., GONZALEZ M., “Five years operation of the second generation backscattering spectrometer IN16—a retrospective, recent developments and plans”, *Physica B* **301**, 8-19 (2001).
1204. **02SA1764**: SALIMON A.I., KORSUNSKY A.M., SHELEKHOV E.V., SVIRIDOVA T.A., KALOSHKIN D., TCHERDYNTSEV V.S., BALDOKHIN Y.V., “Crystallochemical aspects of solid state reactions in mechanically alloyed Al–Cu–Fe quasicrystalline powders”, *Acta Materialia* **49**, 1821-1833 (2001).
1205. **02LO1765**: LOVEDAY J.S., NELMES R.J., GUTHRIE M., “High-pressure transitions in methane hydrate”, *Chemical Physics Letters* **350**, 459-465 (2001).
1206. **02RE1766**: RENAUDIN G., FISCHER P., YVON K., “Tetragonal structure of neodymium deuteride NdD_{2.27} revisited”, *Journal of Alloys and Compounds* **329**, L9-L13 (2001).
1207. **02GO1767**: GOERING E., WILL J., GEISLER J., JUSTEN M., WEIGAND F., SCHUETZ G., “X-ray magnetic circular dichroism — a universal tool for magnetic investigations”, *Journal of Alloys and Compounds* **328**, 14-19 (2001).
1208. **02KO1768**: KOLOCZEK J., KWON Y.K., BURIAN A., “Characterization of spatial correlations in carbon nanotubes-modelling studies”, *Journal of Alloys and Compounds* **328**, 222-225 (2001).
1209. **02FR1769**: FRONTERA C., GARCIA-MUÑOZ J.L., LLOBET A., ARANDA M.A.G., RODRIGUEZ-CARVAJAL J., RESPAUD M., BROTO J.M., RAQUET B., RAKOTO H., GOIRAN M., “Structural, spin state, and magnetic transitions in GdBaCo₂O_{5+δ} ($\delta \approx 0.5$)”, *Journal of Alloys and Compounds* **323-324**, 468-471 (2001).
1210. **02ZO1770**: ZOLOTYABKO E., SHILO D., LAKIN E., “X-ray imaging of acoustic wave interaction with dislocations”, *Materials Science and Engineering A* **309-310**, 23-27 (2001).
1211. **02NI1771**: NIELSEN S.F., LAURIDSEN E.M., JUUL JENSEN D., POULSEN H.F., “A three-dimensional X-ray diffraction microscope for deformation studies of polycrystals”, *Materials Science and Engineering A* **319-321**, 179-181 (2001).
1212. **02MO1772**: MOSER H.O., “New synchrotron radiation facility ANKA at Karlsruhe”, *Journal of Alloys and Compounds* **328**, 42-49 (2001).
1213. **02GE1773**: GENOUD J.Y., GIANNINI E., LOMELLO-TAFIN M., SUO H.L., SCHINDL M., BELLINGERI E., WALKER E., FLÜKIGER R., “Material developments in Ag/Bi,Pb(2223), Ag/RE(123) and Ag/Tl(1223) tapes: Texture in HTS”, *Physica C* **354**, 327-332 (2001).
1214. **02CH1774**: CHANTLER C.T., TRAN C.Q., PATERSON D., COOKSON D., BARNEA Z., “X-ray extended-range technique for precision measurement of the X-ray mass attenuation coefficient and Im(f) for copper using synchrotron radiation”, *Physics Letters A* **286**, 338-346 (2001).
1215. **02NI1775**: NIESTEN M.C.E.J., HARKEMA S., VAN DER HEIDE E., GAYMANS R.J., “Structural changes of segmented copolyetheresteramides with uniform aramid units induced by melting and deformation”, *Polymer* **42**, 1131-1142 (2001).

- 1216.**02NI1776**: NIESTEN M.C.E.J., TEN BRINKE J.W., GAYMANS R.J., “Segmented copolyetheresteraramids with extended poly(tetramethyleneoxide) segments”, *Polymer* **42**, 1461-1469 (2001).
- 1217.**02SE1777**: SEREBRYANAYA N.R., BLANK V.D., IVDENKO V.A., CHERNOZATONSKII L.A., “Pressure-induced superhard phase of C₆₀”, *Solid State Communications* **118**, 183-187 (2001).
- 1218.**02ME1778**: MENETREY J., FLATAU G., STURA E.A., CHARBONNIER J.B., GAS F., TEULON J.M., LE DU M.H., BOQUET P., MENEZ A., “NAD binding induces conformational changes in Rho ADP-ribosylating *Clostridium botulinum* C3 exoenzyme”, *Journal of Biological Chemistry* **277**, 30950-30957 (2002).
- 1219.**02VE1779**: VERDON G., ALBERS S.V., DIJKSTRA B.W., DRIESSEN A.J.M., THUNNISSEN A.M.W.H., “Purification, crystallization and preliminary X-ray diffraction analysis of an archaeal ABC-ATPase”, *Acta Crystallographica D* **58**, 362-365 (2002).
- 1220.**02KR1780**: KRAUS I., SCHEFFCZIK H., EICKMANN M., KIERMAYER S., STUBBS M.T., GARTEN W., “Crystallization and preliminary X-ray analysis of the matrix protein of Borna disease virus”, *Acta Crystallographica D* **58**, 1371-1373 (2002).
- 1221.**02NG1781**: NG J.D., SAUTER C., LORBER B., KIRKLAND N., ARNEZ J., GIEGE R., “Comparative analysis of space-grown and earth-grown crystals of an aminoacyl-tRNA synthetase: space-grown crystals are more useful for structural determination”, *Acta Crystallographica D* **58**, 645-652 (2002).
- 1222.**02ME1782**: MERKEL A.B., TEMPLE G.K., BURKART M.D., LOSEY H.C., BEIS K., WALSH C.T., NAISMITH J.H., “Purification, crystallization and preliminary structural studies of dTDP-4-keto-6-deoxy-glucose-5-epimerase (EvaD) from *Amycolatopsis orientalis*, the fourth enzyme in the dTDP-L-epivancosamine biosynthetic pathway”, *Acta Crystallographica D* **58**, 1226-1228 (2002).
- 1223.**02NA1783**: NARDINI M., SPANO S., CERICOLA C., PESCE A., DAMONTE G., LUINI A., CORDA D., BOLOGNESI M., “Crystallization and preliminary X-ray diffraction analysis of brefeldin A-ADP ribosylated substrate (BARS)”, *Acta Crystallographica D* **58**, 1068-1070 (2002).
- 1224.**02ZH1784**: ZHANG Y., WHITTINGHAM J.L., TURKENBURG J.P., DODSON E.J., BRANGE J., DODSON G.G., “Crystallization and preliminary crystallographic investigation of a low-pH native insulin monomer with flexible behaviour”, *Acta Crystallographica D* **58**, 186-187 (2002).
- 1225.**02VA1785**: VANNINI A., VOLPARI C., GARGIOLI C., MURAGLIA E., DE FRANCESCO R., NEDDERMANN P., DI MARCO S., “Crystallization and preliminary X-ray diffraction studies of the transcriptional regulator TraR bound to its cofactor and to a specific DNA sequence”, *Acta Crystallographica D* **58**, 1362-1364 (2002).
- 1226.**02ME1786**: MEHANNI M.M., TURNBULL A.P., SEDELNIKOVA S.E., BAKER P.J., FOSTER S., RICE D.W., “Crystallization and preliminary X-ray analysis of the *ytxM* gene product from *Bacillus subtilis*”, *Acta Crystallographica D* **58**, 2138-2140 (2002).
- 1227.**02GI1787**: GIL-ORTIZ F., FITA I., RAMON-MAIQUES S., MARINA A., RUBIO V., “A crystallographic glimpse of a nucleotide triphosphate (AMPPNP) bound to a protein surface: External and internal AMPPNP molecules in crystalline *N*-acetyl-L-glutamate kinase”, *Acta Crystallographica D* **58**, 1892-1895 (2002).
- 1228.**02GI1788**: LAMOUR V., HOERMANN L., JELTSCH J.M., OUDET P., MORAS D., “Crystallization of the 43 kDa ATPase domain of *Thermus thermophilus* gyrase B in complex with novobiocin”, *Acta Crystallographica D* **58**, 1376-1378 (2002).
- 1229.**02PE1789**: PESCE A., NARDINI M., DEWILDE S., ASCENZI P., BURMESTER T., HANKELN T., MOENS L., BOLOGNESI M., “Human neuroglobin: Crystals and preliminary X-ray diffraction analysis”, *Acta Crystallographica D* **58**, 1848-1850 (2002).
- 1230.**02SA1790**: SAUER O., ROTH M., SCHIRMER T., RUMMEL G., KRATKY C., “Low-resolution detergent tracing in protein crystals using xenon or krypton to enhance X-ray contrast”, *Acta Crystallographica D* **58**, 60-69 (2002).
- 1231.**02LA1791**: LARSSON A.M., STÅHLBERG J., JONES T.A., “Preparation and crystallization of selenomethionyl dextranase from *Penicillium minioluteum* expressed in *Pichia pastoris*”, *Acta Crystallographica D* **58**, 346-348 (2002).
- 1232.**02VA1792**: VAN PETEGEM F., COLLINS T., MEUWIS M.A., GERDAY C., FELLER G., VAN BEEUMEN J., “Crystallization and preliminary X-ray analysis of a xylanase from the psychrophile *Pseudoalteromonas haloplanktis*”, *Acta Crystallographica D* **58**, 1494-1496 (2002).
- 1233.**02AD1793**: ADIR N., RUKHMAN V., BRUMSHTEIN B., ANATI R., “Preliminary X-ray crystallographic analysis of a soluble form of MntC, a periplasmic manganese-binding component of an ABC-type Mn transporter from *Synechocystis* sp. PCC 6803”, *Acta Crystallographica D* **58**, 1476-1478 (2002).

- 1234.**02DA1794**: DAVID G., BLONDEAU K., RENOUEAU M., LEWIT-BENTLEY A., “Crystallization and preliminary analysis of *Escherichia coli* YodA”, Acta Crystallographica D **58**, 1243-1245 (2002).
- 1235.**02WU1795**: WUERGES J., LEE J.W., KANG S.O., DJINOVIC CARUGO K., “Crystallization of a nickel-containing superoxide dismutase and preliminary phase determination by MAD at the Ni K edge”, Acta Crystallographica D **58**, 1220-1223 (2002).
- 1236.**02KR1797**: KRANITZ L., BENABDELHAK H., HORN C., BLIGHT M.A., HOLLAND I.B., SCHMITT L., “Crystallization and preliminary X-ray analysis of the ATP-binding domain of the ABC transporter haemolysin B from *Escherichia coli*”, Acta Crystallographica D **58**, 539-541 (2002).
- 1237.**02MA1798**: MANCHEÑO J.M., MARTINEZ-RIPOLL M., GAVILANES J.G., HERMOSO J.A., “Crystallization and preliminary X-ray diffraction studies of the water-soluble state of the pore-forming toxin sticholysin II from the sea anemone *Stichodactyla helianthus*”, Acta Crystallographica D **58**, 1229-1231 (2002).
- 1238.**02GI1799**: GIBSON R.P., LLOYD R.M., CHARNOCK S.J., DAVIES G.J., “Characterization of *Escherichia coli* OtsA, a trehalose-6-phosphate synthase from glycosyltransferase family 20”, Acta Crystallographica D **58**, 349-351 (2002).
- 1239.**02AY1800**: AYMAMI J., POUS J., LISGARTEN J.N., COLL M., “Crystallization and preliminary X-ray analysis of the DNA decamers d(CCGGATCCGG) and d(CCGGCGCCGG)”, Acta Crystallographica D **58**, 310-311 (2002).
- 1240.**02KA1881**: KADIRVELRAJ R., HARRIS P., POULSEN J.C.N., KAUPPINEN S., LARSEN S., “A stepwise optimization of crystals of rhamnogalacturonan lyase from *Aspergillus aculeatus*”, Acta Crystallographica D **58**, 1346-1349 (2002).
- 1241.**02VA1882**: VARROT A., FRANSEN T.P., DRIGUEZ H., DAVIES G.J., “Structure of the *Humicola insolens* cellobiohydrolase Cel6A D416A mutant in complex with a non-hydrolysable substrate analogue, methyl cellobiosyl-4-thio- β -cellobioside, at 1.9 Å”, Acta Crystallographica D **58**, 2201-2204 (2002).
- 1242.**02SH1883**: SHIMON L.J.W., PERETZ M., GOIHERG E., BURSTEIN Y., FROLOW F., “Thermophilic alcohol dehydrogenase from the mesophile *Entamoeba histolytica*: Crystallization and preliminary X-ray characterization”, Acta Crystallographica D **58**, 546-548 (2002).
- 1243.**02MO1884**: MOROZ O.V., ANTONSON A.A., DODSON E.J., BURRELL H.J., GRIST S.J., LLOYD R.M., MAITLAND N.J., DODSON G.G., WILSON K.S., LUKANIDIN E., BRONSTEIN I.B., “The structure of S100A12 in a hexameric form and its proposed role in receptor signalling”, Acta Crystallographica D **58**, 407-413 (2002).
- 1244.**02OU1885**: OUDJAMA Y., TRICOT C., STALON V., WOUTERS J., “Overexpression, purification, crystallization and preliminary X-ray crystallographic analysis of *Pseudomonas aeruginosa* L-arginine deiminase”, Acta Crystallographica D **58**, 2150-2152 (2002).
- 1245.**02HO1886**: HOPCROFT N.H., WENDT A.L., GOLLNICK P., ANTONSON A.A., “Specificity of TRAP-RNA interactions: Crystal structures of two complexes with different RNA sequences”, Acta Crystallographica D **58**, 615-621 (2002).
- 1246.**02DI1887**: DIAS J.M., BONIFACIO C., ALVES T., MOURA J.J.G., MOURA I., ROMÃO M.J., “Crystallization and preliminary X-ray diffraction analysis of two pH-dependent forms of a di-haem cytochrome *c* peroxidase from *Pseudomonas nautica*”, Acta Crystallographica D **58**, 697-699 (2002).
- 1247.**02DE1888**: DE SMET L., LEYS D., VAN BEEUMEN J.J., “Crystallization and preliminary X-ray diffraction analysis of cytochrome *c* peroxidase from the purple phototrophic bacterium *Rhodobacter capsulatus*”, Acta Crystallographica D **58**, 522-523 (2002).
- 1248.**02NE1889**: NEUMANN S., GRANZIN J., KULA M.R., LABAHN J., “Crystallization and preliminary X-ray data of the recombinant peptide amidase from *Stenotrophomonas maltophilia*”, Acta Crystallographica D **58**, 333-335 (2002).
- 1249.**02PI1890**: PIZARRO J.C., CHITARRA V., CALVET C., VERGER D., BENTLEY G.A., “Crystallization and preliminary structural analysis of an antibody complex formed with PfMSP1-19, a malaria vaccine candidate”, Acta Crystallographica D **58**, 1246-1248 (2002).
- 1250.**02CA1891**: CASSELYN M., FINET S., TARDIEU A., DELACROIX H., “Time-resolved scattering investigations of bromo mosaic virus microcrystals appearance”, Acta Crystallographica D **58**, 1568-1570 (2002).
- 1251.**02MI1892**: MITTL P.R.E., FRITZ G., SARGENT D.F., RICHMOND T.J., HEIZMANN C.W., GRÜTTER M.G., “Metal-free MIRAS phasing: structure of apo-S100A3”, Acta Crystallographica D **58**, 1255-1261 (2002).
- 1252.**02RO1893**: ROUJEINIKOVA A., BALDOCK C., SIMON W.J., GILROY J., BAKER P.J., STUITJE A.R., RICE D.W., RAFFERTY J.B., SLABAS A.R., “Crystallization and preliminary X-ray crystallographic studies on acyl-(acyl carrier protein) from *Escherichia coli*”, Acta Crystallographica D **58**, 330-332 (2002).

1253. **02SU1894**: SULZENBACHER G., GRUEZ A., ROIG-ZAMBONI V., SPINELLI S., VALENCIA C., PAGOT F., VINCENTELLI R., BIGNON C., SALOMONI A., GRISEL S., MAURIN D., HUYGHE C., JOHANSSON K., GRASSICK A., ROUSSEL A., BOURNE Y., PERRIER S., MIALLAU L., CANTAU P., BLANC E., GENEVOIS M., GROSSI A., ZENATTI A., CAMPANACCI V., CAMBILLAU C., “A medium-throughput crystallization approach”, *Acta Crystallographica D* **58**, 2109-2115 (2002).
1254. **02MA1895**: MAZZA C., SEGREF A., MATTAJ I.W., CUSACK S., “Co-crystallization of the human nuclear cap-binding complex with a m⁷GpppG cap analogue using protein engineering”, *Acta Crystallographica D* **58**, 2194-2197 (2002).
1255. **02ME1896**: MENO K., JENNINGS S., SMITH A.T., HENRIKSEN A., GAJHEDE M., “Structural analysis of the two horseradish peroxidase catalytic residue variants H42E and R38S/H42E: Implications for the catalytic cycle”, *Acta Crystallographica D* **58**, 1803-1812 (2002).
1256. **02CA1897**: CANTONI C., PONASSI M., BIASSONI R., CONTE R., SPALLAROSSA A., MORETTA A., MORETTA L., BOLOGNESI M., BORDO D., “Crystallization and preliminary crystallographic characterization of the extracellular Ig-like domain of human natural killer cell activating receptor NKp44”, *Acta Crystallographica D* **58**, 1843-1845 (2002).
1257. **02HA1898**: HARGREAVES D., GIRALDO R., SANTOS-SIERRA S., BOELENS R., RICE D.W., DIAZ OREJAS R., RAFFERTY J.B., “Crystallization and preliminary X-ray crystallographic studies on the *parD*-encoded protein Kid from *Escherichia coli* plasmid R1”, *Acta Crystallographica D* **58**, 355-358 (2002).
1258. **02CA1899**: CARPENA X., GUARNE A., FERRER J.C., ALZARI P.M., FITA I., LOEWEN P.C., “Crystallization and preliminary X-ray analysis of the hydroperoxidase I C-terminal domain from *Escherichia coli*”, *Acta Crystallographica D* **58**, 853-855 (2002).
1259. **02FE1900**: FERNANDEZ-MURGA M.L., RAMON-MAIQUES S., GIL-ORTIZ F., FITA I., RUBIO V., “Towards structural understanding of feedback control of arginine biosynthesis: Cloning and expression of the gene for the arginine-inhibited *N*-acetyl-L-glutamate kinase from *Pseudomonas aeruginosa*, purification and crystallization of the recombinant enzyme and preliminary X-ray studies”, *Acta Crystallographica D* **58**, 1045-1047 (2002).
1260. **02PE1901**: PEREIRA DE JESUS K., SERRE L., HERVOUET N., BOUCKSON-CASTAING V., ZELWER C., CASTAING B., “Crystallization and preliminary X-ray crystallographic studies of a complex between the *Lactococcus lactis* Fpg DNA-repair enzyme and an abasic site containing DNA”, *Acta Crystallographica D* **58**, 679-682 (2002).
1261. **02ST1902**: STURA E.A., TAUSSIG M.J., SUTTON B.J., DUQUERROY S., BRESSANELLI S., MINSON A.C., REY F.A., “Scaffolds for protein crystallisation”, *Acta Crystallographica D* **58**, 1715-1721 (2002).
1262. **02ST1903**: STURA E.A., GRAILLE M., HOUSDEN N.G., GORE M.G., “Protein L mutants for the crystallization of antibody fragments”, *Acta Crystallographica D* **58**, 1744-1748 (2002).
1263. **02ST1904**: STURA E.A., MARTIN L., LORTAT-JACOB H., VIVES R., VITA C., “Heparin-aggregated RANTES can be crystallised”, *Acta Crystallographica D* **58**, 1670-1673 (2002).
1264. **02ST1905**: STURA E.A., TETE-FAVIER F., MULLER S., AUBRY A., “Disulphide dimerised peptide creates a crystal contact in an anti-peptide antibody”, *Acta Crystallographica D* **58**, 1740-1743 (2002).
1265. **02XU1906**: XU B., MUÑOZ I.G., JANSON J.C., STÅHLBERG J., “Crystallization and X-ray analysis of native and selenomethionyl β -mannanase Man5A from blue mussel, *Mytilus edulis*, expressed in *Pichia pastoris*”, *Acta Crystallographica D* **58**, 542-545 (2002).
1266. **02DA1907**: DAUTER Z., “One-and-a-half wavelength approach”, *Acta Crystallographica D* **58**, 1958-1967 (2002).
1267. **02CA1908**: CABANTOUS S., GUILLET V., OHTA N., NEWTON A., SAMAMA J.P., “Characterization and crystallization of DivK, an essential response regulator for cell division and differentiation in *Caulobacter crescentus*”, *Acta Crystallographica D* **58**, 1249-1251 (2002).
1268. **02KR1909**: KRISTENSEN O., LAURBERG M., GAJHEDE M., “Crystallization of a stringent response factor from *Aquifex aeolicus*”, *Acta Crystallographica D* **58**, 1198-1200 (2002).
1269. **02DO1910**: DOLLE P., BAUDOING-SAVOIS R., DE SANTIS M., SAINT-LAGER M.C., ABEL M., BERTOLINI J.C., DELICHERE P., “Strained Pd films, by epitaxial growth on Au(1 1 0), to control catalytic properties”, *Surface Science* **518**, 1-13 (2002).
1270. **02BU1911**: BUTTER K., PHILIPSE A.P., VROEGE G.J., “Synthesis and properties of iron ferrofluids”, *Journal of Magnetism and Magnetic Materials* **252**, 1-3 (2002).
1271. **02VA1912**: VAN EWIIK G.A., VROEGE G.J., KUIPERS B.W.M., PHILIPSE A.P., “Thermodynamic (in)stability of ferrofluid-polymer mixtures”, *Journal of Magnetism and Magnetic Materials* **252**, 32-34 (2002).

1272.02**FI1913**: FIGGIS B.N., SOBOLEV A.N., KEPERT C.J., KURMOO M., “MEM(TCNQ)₂ at room temperature and 10 K, and the absence of a spin-Peierls transition”, *Acta Crystallographica C* **57**, 991-993 (2001).