

Wechsel zu Intranet



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- Experimentierstationen
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Publications by BESSY Users 2001

S.S. Andreev, H.-Ch. Mertins Y.Y. Platanov, N.N. Salashchenko, F. Schäfers, E.A. Shamov, L.A. Shmaonek
Multilayer Dispersion Optics for X-Ray Radiation
Nucl. Instr. Meth. A, 448, 133 - 141, (2001)

V. Arkadiev, A. Bjeoumikhov, N. Langhoff, J. Rabe, P. Roth, R. Wedell, B. Ham, F. Diekmann, K. Richter, M. Krumrey, U. Linke, G. Ulm, R. Lawaczek, W.-R. Press, K. Schön und H.-J. Weinmann
Aufbau und Charakterisierung eines Röntgen-Monochromatormoduls für Mammographiegeräte
Medizinische Physik 2001, Hrsg. K. Welker und K. Zink, 123, (2001)

D. Arvanitis, N. Haack, G. Ceballos, H. Wende, K. Baberschke, A.L. Ankudinov and J.J. Rehr
Shape resonances of oriented molecules
J. Electr. Spectr. Relat. Phenom. , 113, 57, (2000)

L. Assoufid, O. Hignette, M. Howells, S. Irick, H. Lammert, P. Takacs
Future metrology needs for synchrotron radiation grazing-incidence optics
Nuclear Instruments & Methods in Physics research A , 467-468 , 267-270, (2001)

P. Srivastava, K. Baberschke
New opportunities in soft-X-ray absorption to characterize the adsorbate bonding.
Topics in Catalysis , 10, 199, (2000)

K. Baberschke
Anisotropy in Magnetism
Lecture Notes in Physics, Springer, 580, 27, (2001)

K. Baberschke, M. Donath, W. Nolting
Band - Ferromagnetism: Ground-State and Finite-Temperature Phenomena
Lecture Notes in Physics, Springer, 580, (2001)

D.R. Batchelor, R. Follath, D. Schmeisser
Commissioning results of the BTUC-PGM beamline
Nucl. Instrum. and Methods , 467, 470-473 , (2001)

A. Bayer
Zirkulardichroische Untersuchungen und Momentenanalyse an epitaktisch gewachsenen CrO₂-Filmen
Diplomarbeit (2001)

B. Beckhoff, R. Fliegau, G. Ulm, G. Peponi, C. Strel, P. Wobrauschek, L. Fabry and S. Pahlke
Improvement of a total reflection X-ray fluorescence analysis of low Z elements on silicon wafer surfaces at the PTB monochromator beamline for undulator radiation at BESSY II
Spectrochimica Acta B , 56, 2073, (2001)

M. Beijersbergen, M. Bavdaz, A. Peacock, E. Tomaselli, R. Fairbend, J.-P. Boutot, S.O. Flyckt, A. Brunton, G. Price, G. Fraser, C. Herrmann, M. Krumrey, E. Ziegler and A. Freund

High-resolution micro-pore X-ray optics produced with micro-channel plate technology
Proc. SPIE , 4145, 188, (2001)

G. Ceballos, H. Wende, K. Baberschke and D. Arvanitis
Molecular Geometry Modifications upon Adsorption for N₂O: N and O K-edge NEXAFS.
Surf Sci. , 482-485, 15, (2001)

G. Ceballos, N. Haack, H. Wende, R. Püttner, D. Arvanitis and K. Baberschke
High-resolution X-ray absorption spectra of the p resonance of N₂, directly physisorbed on metallic Cu (100)*
Nuclear Instruments and Methods in Physics Research A, 467-8, 1560 , (2001)

J.D. Coates, R. Chakraborty, S.M. Connor, C. Schmidt, J. Thieme
The Geochemical Effects of Microbial Humic Substances Reduction
Acta hydrochim. Hydrobiol. , 28, 420-427, (2000)

A. Dallmeyer, K. Maiti, O. Rader, L. Pasquali, C. Carbone, W. Eberhardt
Magnetism and interlayer coupling in fcc-Fe/Co films
Phys. Rev. B , 63, 104413-1--5 , (2001)

M. Dickow
Polarisationsmessungen an lasergepumpten 3d-Atomen für Dichroismusexperimente mit Synchrotronstrahlung ,
Diplomarbeit TU-Berlin, (2001)

N. Dimakis, G. Bunker, M. Katsikini, E.C. Paloura
Verification of a distortion in the microstructure of GaN detected by EXAFS using ab initio DFT
J. Synchrotron Rad, 8 , 258, (2001)

S. Dreiner, M. Schürmann, C. Westphal , H. Zacharias
Local atomic environment of Si suboxides at the SiO₂/Si(111) interface determined by angle-scanned photoelectron diffraction
Phys. Rev. Lett. , 86, 4068-4071, (2001)

M. Dähne, S. Vandre, C. Preinesberger, S.K. Becker, W. Busse, and T. Kalka
Rare-earth silicide films on silicon surfaces
Advances in Solid State Physics, 41 , 227, (2001)

A. Ehresmann, H. Liebel, M. von Kröger, H. Schmoranzer
Dissociation of NO b₃I₁₀, 1,2 npl 2L (v = 0) Rydberg states into O((4S)3s 3S1) + N(4S) fragments
J. Phys. B: At. Mol. Opt. Phys. , 34, 2893, (2001)

A. Ehresmann, H. Liebel, M. von Kröger, H. Schmoranzer
Final state selectively observed autoionisation and predissociation processes in NO for Eexc = 16.9 eV - 19.6 eV
J. Phys. B: At. Mol. Opt. Phys. , 34, 3119, (2001)

T. Eimüller, P. Fischer, M. Köhler, M. Scholz, P. Guttman, G. Denbeaux, S. Glück, G. Bayreuther, G. Schmahl, D. Attwood, G. Schütz
Transmission X-ray microscopy using X-ray magnetic circular dichroism
Appl. Phys. A, 73 , 697-701, (2001)

T. Eimüller, P. Fischer, G. Schütz, P. Guttman, G. Schmahl, M. Scholz, M. Köhler, G. Bayreuther
Magnetization reversal of a multilayered FeGd dot array imaged by MTXM

J. Appl. Phys., 89, 7162-7164, (2001).

A. Erko, N. Langhoff, A.A.Bjeoumikhov, V.I.Beloglasov
High-Order Harmonic Suppression by a Glass Capillary Array
Nuclear Instruments and Methods in Physics Research , 467-468, 832-835, (2001)

A. Erko, I. Packe, W. Gudat, N. Abrosimov, A. Firsov
The Crystal Monochromator Based on graded SiGe Crystals
Nuclear Instruments and Methods in Physics Research , 467-468, 358-361, (2001)

S.I. Fedoseenko, I.E. Iossifov, S.A. Gorovikov, J.S. Schmidt, R. Follath, S.L. Molodtsov, V.K. Adamchuk, G. Kaindl
Development and present status of the Russian-German soft X-ray beamline at BESSY II
Nucl. Instrum. and Methods , 470, 84-88 , (2001)

A. Firsov, A. Svintsov, A. Erko, W. Gudat, S. Kuznetsov, M. Grigoriev, A. Asryan, M. Ferstl, S. Shapoval, V. Aristov
Crystal-based diffraction Focusing Elements for Third-Generation Synchrotron Radiation Sources
Nuclear Instruments and Methods in Physics Research, 467 - 468 , 366-369, (2001)

R. Follath
The versatility of collimated plane grating monochromators
Nucl. Instrum. and Methods , 467, 418 - 425, (2001)

H.-J. Freund, H. Kuhlenbeck, J. Libuda, G. Rupprechter, M. Bäumer, H. Hamann
Bridging the Pressure and Materials Gaps Between Catalysis and Surface Science: Clean and Modified Oxide Surfaces
Topics in Catalysis, 15, 201, (2001)

H.-J. Freund, H. Kuhlenbeck, T. Risse
Molecules on Well Structured Oxide Surfaces
The Chemical Physics of Solid Surfaces/Elsevier, vol 9, chapter 8, (2001)

H.-J. Freund, N. Ernst, M. Bäumer, G. Rupprechter, J. Libuda, H. Kuhlenbeck, T. Risse, W. Drachsel, K.A.-Shamery, H. Hamann
Model Systems for Heterogeneous Catalysis: Quo Vadis Surface Science
in "Surface Chemistry and Catalysis" /Kluwer-Plenum, (2001)

R. Fritsche, E. Wisotzki, A.B.M.O. Islam, A. Thissen, A. Klein, W. Jaegermann, D. Tonti, R. Rudolph, C. Pettenkofer
Electronic passivation of Si(111) by Ga-Se half-sheet termination
Applied Physics Letters, in press, (2002)

R. Früke
Holografisch erzeugte Laminargitter mit variabler Liniendichte für das Göttinger Rasterröntgenmikroskop ,
Diplomarbeit
Institut für Röntgenphysik, Georg-August-Universität Göttingen, (2001)

G.G. Fuentes
Recubrimientos de nitruros y carbonitruros de titanio crecidos mediante depósitos asistidos con haces de iones de baja energía.
Dissertation
Universidad Autónoma Madrid, (2001)

J. Geissler, E. Goering, M. Justen, F. Weigand, G. Schütz, J. Langer, D. Schmitz, H. Maletta, R. Mettheis

Pt magnetization profile in a Pt/Co bilayer studied by resonant magnetic X-ray reflectometry
Phys. Rev. B, 65, 020405(R), (2001)

M. Glass-Maujean, S. Lauer, H. Liebel, H. Schmoranzner
Direct evidence of collisional disalignment decay time: case of H(3) + H2
J. Phys. B: At. Mol. Opt. Phys., 34, 5121, (2001)

Th. Gleim, C. Heske, E. Umbach, C. Schumacher, W. Faschinger, Ch. Ammon, M. Probst, H.P. Steinrück
Reduction of the ZnSe/GaAs(100) valence band offset by a Te interlayers
Appl. Phys. Lett., 78(13), 1867, (2001)

E. Goering, J. Will, J. Geissler, M. Justen, F. Weigand, G. Schütz
X-ray magnetic circular dichroism - an universal tool for magnetic investigations
J. Alloys and Compounds, 328, 14-19, (2001)

E. Goering, A. Fuss, W. Weber, J. Will, G. Schütz
Element specific X-ray Magnetic Circular Dichroism magnetization curves using Total Electron Yield
Journal of Applied Physics, 88, 5920, (2000)

E. Goering, S. Gold, A. Bayer, G. Schuetz
Non symmetric influences in the Total Electron Yield X-ray Magnetic Circular Dichroism signal in applied magnetic fields
Journal of Synchrotron Radiation, 8, 434, (2001)

E. Goering, S. Gold, G. Schütz
HoFe - Garnet soft XMCD measurements below and above the compensation temperature
Journal of Synchrotron Radiation, 8, 422, (2001)

S.A. Gorovikov, R. Follath, S.L. Molodtsov, G. Kaindl
Optimization of the optical design of the Russian-German soft-X-ray beamline at BESSY II
Nucl. Instrum. and Methods, 467, 565-568, (2001)

H. Grimmer, O. Zaharko, H.-Ch. Mertins, F. Schäfers
Polarizing mirrors for soft X-ray radiation
Nucl. Instr. and Meth. A, 467-468, 354-357, (2001)

H. Grimmer, M. Horisberger, U. Staub, H.-Ch. Mertins, F. Schäfers
Multilayer optics for soft X-rays
In "Advances in Structure Analysis", Editors: R. Kuzel, J. Hasek
Czech and Slovak Crystallographic Association, Praha, 311-318, (2001)

H. Grimmer, O. Zaharko, M. Horisberger, H.-Ch. Mertins, F. Schäfers
Optical Components for Polarization Analysis at the Vanadium L3 edge and the Carbon K edge
Surface Review and Letters (Proceedings VUV-XIII 2001), (2001)

P. Grübling
Untersuchung der Strahlungscharakteristik eines resonant mikrowellengeheizten Plasmas im Vakuum-UV,
Dissertation
Techn. Universität Berlin, (2001).

C. Gude, W. Rettig
Radiative and nonradiative excited state relaxation channels in squaric acid derivatives bearing differently-sized donor

substituents

J. Phys. Chem. A, 104, 8050, (2000)

P. Guttman, B. Niemann, J. Thieme, D. Hambach, G. Schneider, U. Wiesemann, D. Rudolph, G. Schmahl
Instrumentation advances with the new X-ray microscopes at BESSY II
Nucl. Instrum. Meth. A, 467/8, 849-852, (2001)

W. Görner, M.P. Hentschel, B.R. Müller, H. Rieseheimer, M. Krumrey, G. Ulm, W. Diete, U. Klein, R. Frahm
BAMline: the first hard X-ray beamline at BESSY II
Nucl. Instr. And Meth., 467-468, 703, (2001)

A.G. Gürek, G. Appel, R.P. Mikalo, D. Schmeißer
Synthesis of dihydroxy silicon phthalocyanine tetrasulfonic acid and poly-5-oxo silicon phthalocyanine tetrasulfonic acid
Journal of Porphyrins and Phthalocyanines, 5, 751-757, (2001)

N. Haack, G. Ceballos, H. Wende, K. Baberschke, D. Arvanitis, A.L. Ankudinow and J.J. Rehr
Shape resonances of oriented molecules: ab initio theory and experiments on hydrocarbon molecules.
Phys. Rev. Lett., 84, 614, (2000)

D. Hambach, M. Peuker, G. Schneider
Nanostructured diffractive optical devices for soft X-ray microscopes
Nucl. Instrum. Meth. A, 467/8, 877-880, (2001)

D. Hambach
Nanostrukturen mit hohem Aspektverhältnis als lichtstarke diffraktive Röntgenoptiken für hohe Beugungsordnungen
Dissertation
Institut für Röntgenphysik, Georg-August-Universität Göttingen, (2001)

K. Hasche, K. Herrmann, M. Krumrey, G. Ulm, S. Schädlich, W. Frank, M. Procop
Calibrated reference standards for films in the nanometer range
Proc. of 2nd euspen International Conference (Turin, Italy, May 27th - 31st), 396, (2001)

J.-D. Hecht, F. Frost, A.B. Preobrajenski, D. Hirsch, H. Neumann, A. Schindler, T. Chassi
Observation of interstitial nitrogen in the low-energy ion beam nitridation of AlIII-BV semicon-ductor surfaces by means of X-ray
J. Applied Physics, 90, 6066-69, (2001)

J.-D. Hecht, F. Frost, T. Chassi, D. Hirsch, H. Neumann, A. Schindler, F. Bigl,
In situ characterization of the nitridation of AlIII-BV semiconductor surfaces by means of
Appl. Surface Science, 179, 196-202, (2001)

M. Hecker, U. Muschiol, C.M. Schneider, H.-Ch. Mertins, D. Abramsohn, F. Schäfers
Effect of annealing on structural and magnetic properties of Co/Cu multilayers investigated by resonant X-ray scattering
Journal of Magnetism and Magnetic Materials (proceedings MMM Aachen June 2001), (2001)

H. Henneken, F. Scholze, M. Krumrey and G. Ulm
Quantum efficiencies of gold and copper photocathodes in the VUV and X-ray range
Metrologia, 37, 485, (2000)

U. Hergenhan, O. Kugeler, A. Rüdell, E.E. Rennie, A.M. Bradshaw

Symmetry-selective observation of the N 1s shape resonance in N₂
J. Phys. Chem. A , 105, 5704-5708, (2001)

J. Hollandt, U. Becker, W. Paustian, M. Richter and G. Ulm
New developments in the radiance calibration of deuterium lamps in the UV and VUV spectral range at the PTB
Metrologia, 37, 563, (2000)

K. Holldack, D. Ponwitz, W.B. Peatmann
Beam stability of undulator and dipole radiation on BESSY II obtained by synchrotron radiation monitors
Nuc. Instrum. Meth. A, 467-468, 213-220, (2001)

H. Hunter-Dunn, D. Arvanitis, K. Baberschke, A. Hahlin, O. Karis, R. Carr and N. Mertensson
A comparative study of x-ray absorption spectroscopy at various synchrotron facilities and the effect of transverse source coherence
J. Electr. Spectr. Relat. Phenom. , 113, 67 , (2000)

M. Jäger
Untersuchungen zur Darstellung von Kernproteinen mit Laserscan- und Röntgenmikroskop , Diplomarbeit
Institut für Röntgenphysik, Georg-August-Universität Göttingen, (2001)

C. Jung, F. Eggenstein, S. Hartlaub, R. Follath, J.S. Schmidt, F. Senf, M.R. Weiss, T. Zeschke, W. Gudat
First results of the soft X-ray microfocus beamline U41-PGM
Nucl. Instrum. and Methods , 467, 485-487 , (2001)

B. Kanngießler, S. Brünken, K. Godehusen, Ch. Gerth, W. Malzer, M. Richter and P. Zimmermann
A Photoelectron-Photoion Coincidence Method for the Investigation of Decay Probabilities after Inner-Shell Photoionization
Nucl. Instr. And Meth., 467-468, 1477, (2001)

S. Kapelle, W. Rettig, R. Lapouyade
Aniline Dimers and Trimers as Model Compounds for Polyaniline
Chem. Phys. Lett., 348, 416, (2001)

M. Katsikini, E.C. Paloura, T.D. Moustakas
Study of group-III binary and ternary nitrides using near edge X-ray absorption measurements
Journal of Crystall Growth, 230 (3-4), 405, (2001)

M. Katsikini, J. Bollmann, W.T. Masselink, E.C. Paloura
On the effect of ion implantation in the microstructure of GaN: A XAFS study
Journal of Synchrotron Radiation, 6, 552, (1999)

M. Katsikini, H. Rossner, M. Fieber-Erdmann, E. Holub-Krappe, T. D. Moustakas, E. C. Paloura
Gallium K-edge EXAFS measurements on cubic and hexagonal GaN
Journal of Synchrotron Radiation , 6, 561, (1999)

M. Katsikini, T. D. Moustakas, E. C. Paloura
Nitrogen K-edge EXAFS measurements on Mg and Si doped GaN
Journal of Synchrotron Radiation , 6, 555, (1999)

M. Katsikini, M. Fieber-Erdmann, E. Holub-Krappe, D. Korakakis, T.D. Moustakas, E.C. Paloura
Nitrogen K-edge NEXAFS measurements on Group-III binary and ternary nitrides

Journal of Synchrotron Radiation , 6, 558, (1999)

M. Katsikini, E.C. Paloura, J. Bollmann, E. Holub-Krappe, W.T. Masselink
Nitrogen K-edge X-ray absorption measurements on N and O implanted GaN
Journal of Electron Spectroscopy and Related Phenomena, 101-103, 689, (1999)

M. Katsikini, E.C. Paloura, M. Fieber-Erdmann, E. Holub-Krappe, D. Korakakis, T.D. Moustakas
Nitrogen K-edge NEXAFS measurements on group-III binary and ternary nitrides
Journal of Electron Spectroscopy and Related Phenomena , 101-103, 695, (1999)

M. Katsikini, E.C. Paloura
NEXAFS and EXAFS studies of GaN and its alloys
Proceedings of the Electrochemical Society, 98-18, 64, (1999)

P. Kavouras, M. Katsikini, N. Vouroutzis, C.B. Lioutas, E.C. Paloura, J. Antonopoulos, Th. Karakostas, P. Bressler
Ion implantation effects on the microhardness and microstructure of GaN
Journal of Crystal Growth, 230 (3-4), 454, (2001)

V. Kharlanov, W. Rettig
Multiple emission of n-(1-naphthyl)-Pyridinium
J. Photochem. Photobiol. A:Chemistry, 141, 127, (2001)

V.A. Kilin, D.A. Lazarev, Dm.A. Lazarev, V.M. Zelichenko, M.Ya. Amusia, K.-H. Schartner, A. Ehresmann, H. Schmoranzler
Test of a q-fractional V(N-q) Hartree-Fock potential for the calculation of double photoionization cross sections of neon
J. Phys.B:At. Mol. Opt. Phys., 34, 3993, (2001)

A. Kleibert
Magneto-optische Untersuchungen an ultradünnen Kobaltschichten auf W(110) mit sichtbarem Licht und im weichen Röntgenbereich
Diplomarbeit
Universität Rostock, (2001)

R. Klein, A. Gottwald, F. Scholze, R. Thornagel, J. Tümmeler, G. Ulm, M. Wedowski, F. Stietz, B. Mertens, N. Koster, J.V. Elp
Lifetime testing of EUV optics using intense synchrotron radiation at the PTB radiometry laboratory
Proc. SPIE , 4506, 105, (2001)

N. Koch, D. Pop, R.L. Weber, N. Böwering, B. Winter, M. Wick, G. Leising, I.V. Hertel, W. Braun
Radiation induced degradation and surface charging of organic thin films in ultraviolet photoemission spectroscopy
Thin Solid Films, 81, 391, (2001)

M. Krumrey, C. Herrmann, P. Müller and G. Ulm
Synchrotron-radiation-based cryogenic radiometry in the X-ray range
Metrologia, 37, 361, (2000)

M. Krumrey, G. Ulm
High-accuracy detector calibration at the PTB four-crystal monochromator beamline
Nucl. Instr. And Meth. , 467-468, 1175, (2001)

W. Kuch, C.M. Schneider

Magnetic dichroism in valence band photoemission
Rep. Prog. Phys., 64, 147-204, (2001)

S.K. Kulkarni, U. Winkler, N. Deshmukh, P.H. Borse, R. Fink, and E. Umbach
Investigations of Chemically Capped CdS and ZnS Nanoparticles
Appl. Surf. Sci, 169/170, 438, (2001)

J. Kunes, P.M. Oppeneer, H.-Ch. Mertins, F. Schäfers, A. Gaupp, W. Gudat, P. Novak
X-Ray Faraday Effect at the L_{2,3} Edges of Fe, Co and Ni: Theory and Experiment
Phys. Rev. B, 64, 174417-1, (2001)

J. Kunes, P.M. Oppeneer, H.-Ch. Mertins, F. Schäfers, A. Gaupp, W. Gudat, P. Novak
X-Ray Faraday Effect of ferromagnetic films: contribution of the core exchange splitting
Journal of Magnetism and Magnetic Materials (proceedings MMM Aachen June 2001) , (2001)

H. Lammert, F. Senf, F. Eggenstein, U. Flechsig, R. Follath, S. Hartlaub, T. Noll, G. Reichardt, J.S. Schmidt, M. Weiss, T. Zeschke, W.B. Peatman, and W. Gudat
Engineering aspects for the conception of the BESSY II beamlines
Nuclear Instruments & Methods in Physics research A , 467-458 , 488-491, (2001)

H. Liebel, R. Müller-Albrecht, S. Lauer, F. Vollweiler, A. Ehresmann, H. Schmoranzner
Fine-structure selectivity of neutral dissociation with excitation observed in O₂
J. Phys. B: At. Mol. Opt. Phys. , 34, 2581, (2001)

H. Liebel
Spektroskopische Untersuchungen der Neutraldissoziation des Sauerstoffs nach Anregung mit monochromatischer Synchrotronstrahlung
Dissertation
Universität Kaiserslautern, (2001)

J. Lindner, P. Pouloupoulos, F. Wilhelm, M. Farle and K. Baberschke
Atomic exchange processes at the interface and their role on the magnetic moments of ultrathin Ni/Cu(001) films
Phys. Rev. B , 62, 10431 , (2000)

K. Maiti, A. Dallmeyer, M.C. Malagoli, C. Carbone, W. Eberhardt, O. Rader, L. Pasquali, A. Banerjee, S. Turchini, S. Zennaro, N. Zema
Oscillatory interlayer coupling mediated by fcc-Fe/Co(100) films
Appl. Surf. Sci., 182, 302-307, (2001)

M. Martins
Photoionization of open-shell atoms: the chlorine 2p excitation
J. Phys. B, 34, 1324, (2001)

.M. Maus, W. Rettig
Comparison of the Bandshape and Lifetime Data Analysis of Temperature-Dependent Fluorescence Measurements
Phys. Chem. Chem. Phys., 3, 5430, (2001)

H. Meiling, B. Mertens, F. Stietz, M. Wedowski, R. Klein, R. Kurt, E. Louis, A. Yakshin
Prevention of MoSi multilayer reflection loss in EUVL tools
Proc. SPIE , 4506, 93, (2001)

E. Meltchakov, W. Jark, H.-Ch. Mertins, F. Schäfers
Magnetic Circular Dichroism of Gd/Transition Metal Multilayer Structures around the Gd M_{5,4} Edges
Nucl. Instrum. Meth. A, 467-8, 1411 - 1414, (2001)

E. Meltchakov, W. Jark, H.-Ch. Mertins, M. Scheer, F. Schäfers
Two-band magneto-optical elements for soft x-ray polarisation analysis at the Fe (Co) 2p and Gd 3d edges
Surface Review and Letters (Proceedings VUV-XIII 2001), (2001)

E. Meltchakov, H.-Ch. Mertins, M. Scheer, S. DiFonzo, W. Jark, F. Schäfers
Soft x-ray resonant magnetic reflectivity of Gd/TM multilayers
Journal of Magnetism and Magnetic Materials (proceedings MMM Aachen June 2001) , (2001)

H.-Ch. Mertins, F. Schäfers, A. Gaupp
Soft-X-Ray Magneto-Optical Faraday Effect on Fe and Co Films
Europhys. Lett., 55, 125 - 131, (2001)

H.-Ch. Mertins, P.M. Oppeneer, J. Kunes, D. Abramsohn, F. Schäfers, A. Gaupp
Observation of the X-Ray Magneto-Optical Voigt Effect
Phys. Rev. Lett., 87, 047401-1, (2001)

H.-Ch. Mertins, O. Zaharko, F. Schäfers, A. Gaupp, D. Abramsohn, M. Weiss, H.-Grimmer
Resonant Magnetic Scattering of Linearly Polarised Soft X-rays from Fe-Layers and Fe/C-Multilayers
Nucl. Instrum. Meth.A, 467-8, 1415-1418, (2001)

H.-Ch. Mertins, F. Schäfers, A. Gaupp, W. Gudat, J. Kunes, P.M. Oppeneer
Soft X-Ray Magnetic Dichroism and Farady-Rotation Measured with Linearly Polarised Light
Nucl. Instrum. Meth.A, 467-8, 1407-1410, (2001)

H.-Ch. Mertins, F. Schäfers, A. Gaupp, W. Gudat
Faraday-Effekt mit weicher Röntgenstrahlung
Physikalische Blätter, 57, 53 - 55, (2001)

H.-Ch. Mertins, O. Zaharko, A. Gaupp, F. Schäfers, D. Abramsohn, H. Grimmer
Soft x-ray magneto-optical constants at the Fe 2p edge determined by Bragg scattering and Faraday effect
Journal of Magnetism and Magnetic Materials (proceedings MMM Aachen June 2001) , (2001)

A. Nefedov, H. Zabel, F. Schäfers
Sputtered V/Al₂O₃ multilayer x-ray mirrors for the water window
Nucl. Instr. and Meth. A, 345, 345-348, (2001)

A.I. Nesvizhskii, A.L. Ankudinov, J.J. Rehr and K. Baberschke
Interpretation of X-ray magnetic circular dichroism and X-ray near-edge structure in Ni
Phys. Rev. B, 62, 15295 , (2000)

A. Ney, P. Pouloupoulos, F. Wilhelm, A. Scherz, M. Farle and K. Baberschke
Absolute determination of the magnetic moments of Co monolayers: A combination of UHV magnetometries
J. Magn. Magn. Mat., 226, 1570 , (2001)

B. Niemann, P. Guttmann, D. Hambach, G. Schneider, D. Weiß, G. Schmahl
A rotating condenser and off-axis zone plate monochromator for the TXM at the undulator U41 at BESSY II
Nucl. Instrum. Meth. A, 467/8, 857-860, (2001)

T. Noll, Th. Zeschke, G. Reichardt, H. Lammert, W. Gudat
Six-strut arrangements for cartheisan movements of mirrors
Nuclear Instruments & Methods in Physics research A , 467-468 , 775-777, (2001)

B. Obst, T. Richter, M. Martins, P. Zimmermann
Photoionisation of atomic Scandium in the region of the 2p resonances
J. Phys. B, 34, L657, (2001)

J. Okabayashi, A. Kimura, O. Rader, T. Mizokawa, A. Fujimori, T. Hayashi, M. Tanaka
Electronic structure of Ga_{1-x}MnxAs studied by angle-resolved photoemission spectroscopy
Physica E, 10, 192-195, (2001)

J. Okabayashi, A. Kimura, O. Rader, T. Mizokawa, A. Fujimori, T. Hayashi, M. Tanaka
Angle-resolved photoemission study of Ga_{1-x}MnxAs
Phys. Rev. B, 64, 125304-1--5, (2001)

E.C. Paloura, M. Katsikini, A. Markwitz, R.W. Michelmann
An X-ray absorption study of SixNyOz films
Proceedings of the Electrochemical Society, 98-22, 327, (1999)

C. Pampuch, O. Rader, R. Kläsger, C. Carbone
Evolution of the electronic structure in ultrathin Co, Ni, and Cu films
Phys. Rev. B, 63, 153409-1--4, (2001)

S. Park, T.U. Kampen, W. Braun, D.R.T. Zahn
Photoemission study of Mg/PTCDA/Se-GaAs Schottky contacts
Appl. Surf. Sci., 175/176, 249, (2001)

S. Park, T.U. Kampen, D.R.T. Zahn, W. Braun
Energy level alignment driven by electron affinity difference at 3, 4, 9, 10 perylentetracarboxylic dianhydride/n-GaAs (100) interfaces
App. Phys. Lett. , 79, 4124, (2001)

W.B. Peatman, U. Schade
A brilliant infrared light source at BESSY
Review of Scientific Instruments, 72, 1620-1624, (2001)

P. Petrashen, A. Erko
Graded SiGe Crystals as X-Ray Collimators
Nuclear Instruments and Methods in Physics Research , 467-468 , 358-361, (2001)

M. Peuker
High-efficiency nickel phase zone plates with 20 nm minimum outermost zone width
APL, 78, 2208-2210, (2001)

P. Pouloupoulos, K. Baberschke
Phase Transitions in Coupled Two-Dimensional Ferromagnetic Layers
Lecture Notes in Physics, Springer , 580, 283 , (2001)

G. Prümper, O. Geßner, B. Zimmermann, J. Viefhaus, R. Hentges, H. Kleinpoppen, U. Becker

Absorption of Circularly Polarized VUV Radiation in Polarized Iron Vapor
J. Phys. B. atomic molecular and optical physics , 34 , 2707 , (2001)

G. Prümper, B. Zimmermann, N.A. Cherepkov, U. Becker, H. Kleinpoppen
Complete Photoionisation Experiments using polarised atoms
Complete Scattering Experiments; Plenum Press, New York, 141-154 , (2001)

G. Prümper, B. Zimmermann, B. Langer, J. Viehhaus, R. Hentges, N.A. Cherepkov, B. Schmidtke, M. Drescher, U. Heinzmann
Sudden interchannel coupling in the Ti 6p ionization above the 5d threshold
Phys. Rev. Lett. , 85, 5074-5077 , (2000)

R. Püttner, B. Grimaud, D. Delande, M. Domke, M. Martins, A.S. Schlachter, G. Kaindl
Statistical Properties of Inter-Series Mixing in Helium: From Integrability to Chaos
Phys. Rev. Lett., 86, 3747, (2001)

O. Rader, T. Mizokawa, A. Fujimori, A. Kimura
Structure and electron correlation of Mn on Ni(110)
Phys. Rev. B, 64, 165414-1--5, (2001)

O. Rader, A.M. Shikin
Quantization of electronic states in a rare-earth film: Gd/W(110)
Phys. Rev. B, 64, 201406(R)-1--4 , (2001)

G. Reichardt, J. Bahrtdt, J.-S. Schmidt, W. Gudat, A. Ehresmann, R. Müller-Albrecht, H. Molter, H. Schmoranzler, M. Martins, N. Schwentner, S. Sasaki
A 10m-normal incidence monochromator at the quasi-periodic undulator U125-2 at BESSY II
Nucl. Instr. Meth. in Physics Research, 467-468, 462, (2001)

D. Richter
Simulation of the BESSY II Vacuum System
Nuclear Instruments and Methods in Physics Research A , 470, 18, (2001)

M. Richter, U. Johannsen, P. Kuschnerus, U. Kroth, H. Rabus, G. Ulm and L. Werner
The PTB high-accuracy spectral responsivity scale in the ultraviolet
Metrologia, 37, 515, (2000)

M. Richter, J. Hollandt, U. Kroth, W. Paustian, H. Rabus, R. Thornagel, G. Ulm
The two normal-incidence monochromator beam lines of PTB at BESSY II
Nucl. Instrum. and Meth. A , 467-468, 605, (2001)

M. Richter, F. Becker, K. Grützmaker, U. Kroth, H. Rabus, K. Vogler, E. Bergmann, and U. Stamm
Metrology of Laser Radiation in the DUV for Lithography
Laser Beam and Optics Characterization, Hrsg. H. Weber, H. Laabs, 301, (2000)

A. Rüdél
Elektronenspektroskopische Untersuchungen zur Photoionisationsdynamik freier Moleküle nach Anregung mit Synchrotronstrahlung
Dissertation
Wissenschaft&Technik Verlag, (2001)

F. Schäfers, M. Mertin, D. Abramssohn, H.-Ch. Mertins, N.N. Salashchenko
Cr/Sc Nanolayers for the Water Window: Improved Performances
Nucl. Instrum. Meth. A, 467-468, 349-352, (2001)

K.-H. Schartner, B. Zimmermann, S. Kammer, S. Mickat, H. Schmoranzer, A. Ehresmann, H. Liebel, R. Follath, G. Reichardt
Radiative cascades from doubly excited He-states
Phys. Rev. A, 64, 040501(R), (2001)

A. Scherz, F. Wilhelm, U. Bovensiepen, P. Pouloupoulos, H. Wende and K. Baberschke
Separate Curie temperatures in magnetic trilayers and the effect of spin fluctuations
J. Magn. Magn. Mat., 236, 1, (2001)

A. Scherz, F. Wilhelm, P. Pouloupoulos, H. Wende and K. Baberschke
Element-specific Magnetization Curves and Crossover in Co/Cu/Ni/Cu(001) Trilayers Studied by XMCD
J. Synchrotron Rad., 8, 472, (2001)

E. Schierle
Der Einfluß des magnetische finite-size-Effektes auf elektronische Struktur und Gitterparameter schwerer Lanthanidmetalle: Gadolinium und Holmium
Dissertation (2001)

N. Schmidt
Die Untersuchung des Kaskadenzerfalls von Magnesium nach Innerschalenionisation mit Hilfe der Synchrotronstrahlung
Diplomarbeit
TU-Berlin, (2001)

B. Schmidtke, T. Khalil, M. Drescher, N. Müller, N.M. Kabachnik, U. Heinzmann
The Kr M4,5N1N2,3 1P1 Auger decay: measurement of the transferred spin polarization and analysis of Auger amplitudes
J. Phys. B: At. Mol. Opt. Phys., 34, 1-18, (2001)

H. Schmoranzer, S. Lauer, H. Liebel, A. Ehresmann, Ph.V. Demekhin, B.M. Lagutin, I.D. Petrov, V.L. Sukhorukov
Manifestation of Strongly Delocalized Atomic States in the Photoionization Cross Sections of Ar, Kr, and Xe
J. Electron Spectrosc. Relat. Phenomena, 114-116, 135, (2001)

H. Schmoranzer, H. Liebel, F. Vollweiler, R. Müller-Albrecht, A. Ehresmann, K.-H. Schartner, B. Zimmermann
Photon-induced fluorescence spectroscopy (PIFS)
Nuc. Instrum. and Meth. in Phys. Res. A, 467-8, 1526 - 1528, (2001)

F. Scholze, R. Thornagel, G. Ulm
Calibration of energy-dispersive X-ray detectors at BESSY I and BESSY II
Metrologia, 38, 391, (2001)

F. Scholze, B. Beckhoff, G. Brandt, R. Fliegau, A. Gottwald, R. Klein, B. Meyer, U. Schwarz, R. Thornagel, J. Tümmler, K. Vogel, J. Weser, and G. Ulm
High-Accuracy EUV Metrology of PTB Using Synchrotron Radiation
Proc. of SPIE, 4344, 402, (2001)

F. Scholze, M. Procop

Measurement of detection efficiency and response functions for an Si(Li) x-ray spectrometer in the range 0.1 - 5 keV
X-Ray Spectrom. , 30, 69, (2001)

T. Schröder, A. Hammoudeh, M. Pykavy, M. Adelt, M. Bäumer, H.-J. Freund
Single Crystalline Silicon Dioxide Films on Mo(112)
Solid State Electronics, 45, 1471, (2001)

C. Schüßler-Langeheine, E. Weschke, A. Yu. Grigoriev, H. Ott, A. Möller, R. Meier, Chandan Mazumdar, G. Kaindl
Magnetic effects in the band structure of ferromagnetic and antiferromagnetic lanthanide metal films
J. Electron Spectrosc. Relat. Phenom. , 114-116, 795, (2001)

C. Schüßler-Langeheine, E. Weschke, A.Yu. Grigoriev, H. Ott, R. Meier, D.V. Vyalikh, Chandan Mazumdar, C. Sutter, D. Abernathy, G. Grübel, G. Kaindl
Resonant magnetic x-ray scattering from ultrathin Ho-metal films down to a few atomic layers
J. Electron Spectroscop. Relat. Phenom. , 114-116, 953, (2001)

F. Senf, F. Eggenstein, U. Flechsig, R. Follath, S. Hartlaub, H. Lammert, T. Noll, J.S. Schmidt, O. Schwarzkopf, G. Reichardt, M. Weiss, T. Zeschke, and W. Gudat
Set-up and Performance of the first undulator beamline U49-1-SGM at BESSY II
Nuclear Instruments & Methods in Physics research A , 467-468 , 474-478, (2001)

F. Senf, F. Eggenstein, U. Flechsig, R. Follath, S. Hartlaub, H. Lammert, T. Noll, J.S. Schmidt, G. Reichardt, O. Schwarzkopf, M. Weiss, T. Zeschke, W. Gudat
Performance of the first undulator beamline U49-1-SGM at BESSY II
Nucl. Instrum. and Methods , 467, 474-478 , (2001)

V. Senz
Größeneffekte magnetischer Strukturen: Eisen-Inseln und -Cluster
Dissertation
Universität Rostock, (2001)

N. Sieber, Th. Seyller, R. Graupner, L. Ley, R. Mikalo, P. Hoffmann, D.R. Batchelor, D. Schmeißer
PES and LEED Study of Hydrogen and Oxygen terminated 6H-SiC(0001) and (000-1) Surfaces
Appl. Surf. Sci. , 184, 280, (2001)

N. Sieber, T. Seyller, B.F. Mantel, J. Ristein, L. Ley
Preparation and characterization of hydrogen terminated 6H-SiC
Mater. Sci. Forum , 353-356 , 223, (2001)

N. Sieber, B.F. Mantel, T. Seyller, J. Ristein, L. Ley, T. Heller, D.R. Batchelor, D. Schmeisser
Electronic and chemical passivation of hexagonal 6H-SiC surfaces by hydrogen termination
Applied Physics Letters , 78, 1216, (2001)

N. Sieber, Th. Seyller, L. Ley, M. Polcik, D. James, J.D. Riley, R.G.C. Leckey
A high resolution photoemission study of hydrogen terminated 6H-SiC surfaces
Mater. Sci. Forum, in print, (2001)

N. Sieber, Th. Seyller, R. Graupner, L. Ley, R. Mikalo, P. Hoffmann, D. Batchelor, D. Schmeißer
Wetchemical preparation of silicate adlayer terminated SiC(0001) surfaces studied by PES and LEED
Mater. Sci. Forum, in print, (2001)

G. Snell, M. Martins, E. Kukk, W.-T. Cheng, N. Berrah
High Resolution Electron Spectroscopy of a Strongly Correlated System: Atomic Barium
Phys. Rev. A, 63, 062715, (2001)

C. Strelt, P. Wobrauschek, B. Beckhoff, G. Ulm, L. Fabry and S. Pahlke
First results of TXRF measurements of low-Z elements in Si wafer surfaces at the PTB plane grating monochromator beamline for undulator radiation at BESSY II
X-Ray Spectrom., 30, 24, (2001)

B. Tepper
Elektronenspektroskopische Untersuchungen an Vanadiumoxidoberflächen Dissertation (2001)

R. Thornagel, R. Klein, G. Ulm
The electron storage ring BESSY II as a primary source standard from the visible to the x-ray range
Metrologia, 38, 385, (2001)

K. Tiedtke, Ch. Gerth, M. Martins, P. Zimmermann
Term-dependent lifetime broadening in the 3p photoelectron spectra of atomic Fe and Co
Phys. Rev. A, 64, 022705, (2001)

S. Vandre, C. Preinesberger, W. Busse, and M. Dähne
Conservation of flat-band conditions for DySi₂ monolayers on n-type Si(111)
Applied Physics Letters, 78, 2012, (2001)

S. Vogt, M. Jäger, G. Schneider, E. Schulze, H. Saumweber, D. Rudolph, G. Schmahl
Visualizing specific nuclear proteins in eukaryotic cells using soft X-ray microscopy
Nucl. Instrum. Meth. A, 467/8, 1312-1314, (2001)

S. Vogt
Investigations of Immunolabelled Structures in the Cell Nucleus by X-Ray and Light Microscopy, Dissertation
Institut für Röntgenphysik, Universität Göttingen, (2001)

M.R. Weiss, R. Follath, K.J.S. Sahawney, F. Senf, J. Bahrtd, W. Frentrup, A. Gaupp, S. Sasaki, M. Scheer, H.-Ch. Mertins, D. Abramsohn, F. Schäfers, W. Kuch, W. Mahler
The Elliptically Polarised Undulator Beamlines at BESSY II
Nucl. Instrum. Meth. A, 467-8, 449-452, (2001)

M.R. Weiss, R. Follath, K.J.S. Sawhney, T. Zeschke
Absolute energy calibration for plane grating monochromators
Nucl. Instrum. and Methods, 467, 482-484, (2001)

D. Weiß, G. Schneider, S. Vogt, P. Guttmann, B. Niemann, D. Rudolph, G. Schmahl
Tomographic imaging of biological specimens with the cryo transmission X-ray microscope
Nucl. Instrum. Meth. A, 467/8, 1308-1311, (2001)

H. Wende, F. Wilhelm, P. Pouloupoulos, K. Baberschke, J.W. Freeland, Y.U. Idzerda, A. Rogalev, D.L. Schlager, T.A. Lograsso and D. Arvanitis
On the Temperature Dependence of Multiple- and Single-Scattering Contributions in Magnetic EXAFS
in "Theory and computation for synchrotron radiation spectroscopy" AIP Proceedings, 514, 140, (2000)

Ph. Wernet, B. Sonntag, M. Martins, P. Glatzel, B. Obst, P. Zimmermann

Multiplet splitting and valence shell recoupling in the core-level 2p photoelectron spectrum of atomic Mn and of Mn
Phys. Rev. A, 63, R050702, (2001)

Ph. Wernet, J. Schulz, B. Sonntag, K. Godehusen, P. Zimmermann, A.N. Grum-Grzhimailo, N.M. Kabachnik, M. Martins
2p photoelectron spectra and linear alignment dichroism of atomic Cr
Phys. Rev. A, 64, 042707, (2001)

E. Weschke, G. Kaindl
Magnetic exchange splitting in lanthanide metals
J. Phys.: Condens. Matter, 13, 11133, (2001)

C. Westphal, S. Dreiner, M. Schürmann, F. Senf, H. Zacharias
The role of the Si-suboxide structure at the interface: an angle-scanned photoelectron diffraction study
THIN SOLID FILMS, 400, 101-105, (2001)

U. Wiesemann, J. Thieme, R. Früke, P. Guttmann, B. Niemann, D. Rudolph, G. Schmahl
Construction of a scanning transmission X-ray microscope at the undulator U41 at BESSY II
Nucl. Instrum. Meth. A, 467/8, 861-863, (2001)

F. Wilhelm, U. Bovensiepen, A. Scherz, P. Pouloupoulos, A. Ney, H. Wende, G. Ceballos and K. Baberschke
Manipulation of the Curie temperature and the magnetic moments of ultrathin Ni and Co films by Cu-capping
J. Magn. Magn. Mat., 222, 163, (2000)

F. Wilhelm
Magnetic Properties of Ultrathin Films, Coupled Trilayers and 3d/5d Multilayers Studied by X-ray Magnetic Circular Dichroism
Dissertation
Dissertation.de-Verlag im Internet GmbH, Berlin (2000), ISBN 3-89825-177-2, (2000)

K. Wilhelm, U. Schühle, W. Curdt, I.E. Dammasch, J. Hollandt, P. Lemaire and M.C.E. Huber
Solar spectroradiometry with the telescope and spectrograph SUMER on the Solar and Heliospheric Observatory SOHO
Metrologia, 37, 393, (2000)

O. Zaharko, A. Cervellino, H.-Ch. Mertins, H. Grimmer, F. Schäfers, D. Arvanitis
Soft X-Ray Magnetic Circular Dichroism in Fe and Fe_{0.5}Co_{0.48}V_{0.02} Films: quantitative Analysis of Transmission
Eur. Phys. J. B, 23, 441 - 448, (2001)

O. Zaharko, H. Grimmer, H.-Ch. Mertins, F. Schäfers
Resonant X-ray Magnetic Scattering from an Fe-Film and Fe/C-Multilayers
Nucl. Instrum. Meth. A, 467-8, 1419 - 1422, (2001)

O. Zaharko, H.-Ch. Mertins, H. Grimmer, F. Schäfers
Soft X-ray resonant magnetic scattering from Fe/C multilayers
Nucl. Instr. and Meth. A, 467-468, 1419-1422, (2001)
