

Publications 2001

(latest update: Jan. 31, 2002)

Editorship

- 1) S.-L. Drechsler; T. Mishonov (ed.) *High-Tc superconductors and related materials: Material science, fundamental properties, and some future electronic applications, Proceedings of the NATO Advanced Study Institute, held in Albena/Bulgaria, 13. - 26.9.98*, Kluwer Academic Publishers, 2001, 568 S.
- 2) H. Kuzmany; J. Fink; M. Mehring; S. Roth (ed.) *Electronic properties of molecular nanostructures: XV International Winterschool/Euroconference, Kirchberg/Austria, 3-10 March 2001*, AIP Conference Proceedings 591, 2001, XIV+628 S.
- 3) K.-H. Mueller; V. Narozhnyi (ed.) *Rare earth transition metal borocarbides (nitrides): Superconducting, magnetic and normal state properties*, NATO Science Series, II. Mathematics, Physics and Chemistry vol. 14; Kluwer Academic Publishers, 2001, 445 S.
- 4) C.M. Schneider; K.-H. Mueller (ed.) *Proceedings of the Third European Magnetic Sensors and Actuators Conference EMSA 2000, Dresden, Germany, 19.-21.7.2000* ersch. als Special Issue of *Sensors and Actuators A* 91(2001) 1-2, Elsevier, 2001, 237 S.

Journal Papers

- 1) S. Atzkern, M. Knupfer, M.S. Golden, J. Fink, A. Huebsch, C. Waidacher, K.W. Becker, W. von der Linden, M. Weiden, C. Geibel, *Electronic structure of CuGeO₃: Charge excitations between zero and one dimension*, Physical Review B 64 (2001) Nr. 7, S. 75112/1-9.
- 2) S. Atzkern, M. Knupfer, M.S. Golden, J. Fink, A.N. Yaresko, V.N. Antonov, A. Huebsch, C. Waidacher, K.W. Becker, W. von der Linden, G. Obermeier, S. Horn, *One-dimensional dynamics of the d electrons in alpha' - NaV₂O₅*, Physical Review B 63 (2001) Nr. 16, S. 165113/1-13.
- 3) J.M. Auerhammer, T. Kim, M. Knupfer, M.S. Golden, J. Fink, N. Tagmatarchis, K. Prassides, *Vibrational and electronic excitations of (C₅₉N)₂*, Solid State Communications 117 (2001) Nr. 12, S. 697-701.
- 4) N. Balchev, K. Nenkov, B. Kunev, A. Souleva, Ts. Tsacheva, S. Hoste, *Structure and diamagnetic properties of (Pb_{0.6}SnyCu_{0.4-y})Sr₂(1-xCax)Cu₂Oz*, Journal of Superconductivity: Incorporating Novel Magnetism 14 (2001), S. 711-715.
- 5) A.F. Barabanov, A.A. Kovalev, O.V. Urazaev, A.M. Belemuk, R. Hayn, *Evolution of the Fermi surface of cuprates on the basis of the spin-polaron approach*, Journal of Experimental and Theoretical Physics 92 (2001) Nr. 4, S. 677-695.
- 6) G. Barkleit, A.M. El-Aziz, F. Schneider, K. Mummert, *Characterisation of electrochemical interactions between single phases of Nd-Fe-B permanent magnets*, Materials and Corrosion 52 (2001) Nr. 3, S. 193-200.
- 7) A. Bartl, L. Dunsch, *Temperature dependent metal cluster position inside a C₈₂ cage: Sc₃@C₈₂*, Synthetic Metals 121 (2001) Nr. 1-3, S. 1147-1148.
- 8) A. Bartl, L. Dunsch, Y.W. Park, E.S. Choi, D.S. Suh, *Quantum transport in AuCl₃ doped polyacetylene studied by ESR*, Synthetic Metals 117 (2001) Nr. 1-3, S. 21-25.
- 9) S. Baunack, T.G. Koetter, H. Wendrock, K. Wetzig, *AES analysis of failures in Cu based electromigration test samples*, Applied Surface Science 179 (2001) Nr. 1-4, S. 245-250.
- 10) S. Baunack, S. Menzel, W. Brueckner, D. Elefant, *AES depth profiling multilayers of 3d transition metals*, Applied Surface Science 179 (2001) Nr. 1-4, S. 25-29.
- 11) G. Behr, L. Ivanenko, H. Vinzelberg, A. Heinrich, *Single crystal growth of non-stoichiometric beta-FeSi₂ by chemical transport reaction*, Thin Solid Films 381 (2001) Nr. 2, S. 276-281.
- 12) L.-M. Berger, S. Stolle, W. Gruner, K. Wetzig, *Investigation of the carbothermal reduction process of chromium oxide by micro- and lab-scale methods*, International Journal of Refractory & Hard Materials 19 (2001) Nr. 2, S. 109-121.
- 13) S. Berleb, W. Bruetting, G. Paasch, *Interfacial charges in organic hetero-layer light emitting diodes probed by capacitance-voltage measurements*, Synthetic Metals 122 (2001) Nr. 1, S. 37-39.
- 14) Th. Berthold, W. Haessler, M. Schubert, C. Rodig, V. Haas, R. Nanke, M. Leghissa, *Microstructure and electrical properties of Bi_{1.8}Pb_{0.4}Sr₂Ca_{2.1}Cu₃O_x tapes with CeO₂ ceramic barriers*, Physica C 361 (2001) Nr. 3, S. 195-202.
- 15) H. Bitterlich, W. Loeser, H.-G. Lindenkreuz, L. Schultz, *Superconducting YNi₂B₂C- and YPd₂B₂C-phase formation from undercooled melts*, Journal of Alloys and Compounds 325 (2001) Nr. 1-2, S. 285-292.
- 16) M. Bobeth, M. Hecker, W. Pompe, C.M. Schneider, J. Thomas, A. Ullrich, K. Wetzig, *Thermal stability of nanoscale Co/Cu multilayers*, Zeitschrift fuer Metallkunde 92 (2001) Nr. 7, S. 810-819.
- 17) I. Boerner, J. Eckert, *Phase formation and properties of mechanically alloyed amorphous Al₈₅Y₈Ni₅Co₂*, Scripta Materialia 45 (2001) Nr. 2, S. 237-244.
- 18) A. Bogaerts, L. Wilken, V. Hoffmann, R. Gijbels, K. Wetzig, *Comparison of modeling calculations with experimental results for direct current glow discharge optical emission spectrometry*, Spectrochimica Acta Part B 56 (2001) Nr. 5, S. 551-564.
- 19) A.N. Bogdanov, U.K. Roessler, *Chiral symmetry breaking in magnetic thin films and multilayers*, Physical Review Letters 87 (2001) Nr. 3, S. 37203/1-4.

- 20) A. Bollero, B. Gebel, O. Gutfleisch, K.-H. Mueller, L. Schultz, P.J. McGuinness, G. Drazic, S. Kobe, *NdDyFeBZr high coercivity powders prepared by intensive milling and the HDDR process*, Journal of Alloys and Compounds 315 (2001) Nr. 1-2, S. 243-250.
- 21) A. Bollero, A. Kirchner, O. Gutfleisch, K.-H. Mueller, L. Schultz, *Highly coercive milled and melt-spun (Pr, Nd)FeB-type magnets and their hot workability*, IEEE Transactions on Magnetics 37 (2001) Nr. 4, S. 2483-2485.
- 22) S.V. Borisenko, A.A. Kordyuk, S. Legner, C. Duerr, M. Knupfer, M.S. Golden, J. Fink, K. Nenkov, D. Eckert, G. Yang, S. Abell, H. Berger, L. Forr S. Horn, *Actuators A 91(2001) 1-2 in Albena Estimation of matrix-element effects and determination of the Fermi surface in Bi2Sr2CaCu2O8+delta systems using angle-scanned photoemission spectroscopy*, Physical Review B 64 (2001) Nr. 9, S. 94513/1-13.
- 23) V.A. Borodin, K.H. Heinig, B. Schmidt, S. Oswald, *Oxidation of Ge implanted into SiO2 layers: Modeling and XPS*, Nuclear Instruments and Methods B 178 (2001) Nr. 1-4, S. 115-119.
- 24) A. Boulouz, S. Chakraborty, A. Giani, F.P. Delannoy, A. Boyer, J. Schumann, *Transport properties of V-VI semiconducting thermoelectric BiSbTe alloy thin films and their application to micromodule Peltier devices*, Journal of Applied Physics 89 (2001) Nr. 9, S. 5009-5014.
- 25) S. Brehme, G. Behr, A. Heinrich, *Electrical properties of Co-doped Beta-FeSi2 crystals*, Journal of Applied Physics 89 (2001) Nr. 7, S. 3798-3803.
- 26) W. Brueckner, S. Baunack, M. Hecker, J.-I. Moench, L. van Loyen, C.M. Schneider, *Erratum: Interdiffusion in NiFe/Cu/NiFe trilayers - possible failure mechanism for magnetoelectronic devices*, Applied Physics Letters 77 (2000) Nr. 7, S. 1064.
- 27) W. Brueckner, S. Baunack, M. Hecker, J. Thomas, S. Groudeva-Zotova, C.M. Schneider, *Oxidation of NiFe(20 wt.%) thin films*, Materials Science and Engineering B 86 (2001) Nr. 3, S. 272-275.
- 28) W. Brueckner, C. Lang, C.M. Schneider, *Sensitive measurement of magnetostriction effects in thin films by means of a two-beam free-sample deflection method*, Review of Scientific Instruments 72 (2001) Nr. 5, S. 2496-2497.
- 29) W. Brueckner, J. Thomas, C.M. Schneider, *Evolution of stress and microstructure in NiFe (20wt%) thin films during annealing*, Thin Solid Films 385 (2001) Nr. 1/2, S. 225-229.
- 30) M.J. Butcher, J.W. Nolan, M.R.C. Hunt, P.H. Beton, L. Dunsch, P. Kuran, P. Georgi, T.J.S. Dennis, *Orientationally ordered island growth of higher fullerenes on Ag/Si(111)-(v3xv3)R30°*, Physical Review B 64 (2001) Nr. 19, S. 195401/1-6.
- 31) A.N. Chaika, A.M. Ionov, M. Busse, S.L. Molodtsov, S. Majumdar, G. Behr, E.V. Sampathkumaran, W. Schneider, C. Laubschat, *Electronic structure of R2PdSi3 (R=La, Ce, Gd, and Tb) compounds*, Physical Review B 64 (2001) Nr. 12, S. 125121/1-4.
- 32) A.D. Chinchure, M. Doerr, G. Behr, S.K. Dhar, R. Nagarajan, V.R. Marathe, M. Loewenhaupt, L.C. Gupta, *Magnetic properties of R2Re2Si2C (R=Tb and Dy)*, Physica B 299 (2001) Nr. 1-2, S. 135-141.
- 33) A. Cziraki, I. Geroecs, M. Koeteles, A. Gabris, L. Pogany, I. Bakonyi, Z. Klencsar, A. Vertes, S.K. De, A. Barman, M. Ghosh, S. Biswas, S. Chatterjee, B. Arnold, H.-D. Bauer, K. Wetzig, C. Ulhaq-Bouillet, V. Pierron-Bohnes, *Structural features of the La-Sr-Fe-Co-O system*, The European Physical Journal B 21 (2001) Nr. 4, S. 521-526.
- 34) P. Damlin, A. Petr, C. Kvarnstroem, L. Dunsch, A. Ivaska, *In situ UV-Vis ESR studies on electrochemically synthesized poly(p-phenylene vinylene)*, Synthetic Metals 119 (2001) Nr. 1-3, S. 61-62.
- 35) S. Danzenbaecher, S.L. Molodtsov, J. Boysen, C. Laubschat, A.M. Shikin, S.A. Gorovikov, M. Richter, *Behavior of uranium 5f states in a graphite intercalation compound*, Physical Review B 64 (2001) Nr. 3, S. 35404/1-8.
- 36) A.N. Darinskii, M. Weihnacht, *Supersonic Love waves in strong piezoelectrics of symmetry mm2*, Journal of Applied Physics 90 (2001) Nr. 1, S. 383-388.
- 37) B. de Boer, J. Eickemeyer, N. Reger, L. G.-R. Fernandez, J. Richter, B. Holzapfel, L. Schultz, W. Prusseit, P. Berberich, *Cube textured nickel alloy tapes as substrates for YBa2Cu3O7-delta-coated conductors*, Acta Materialia 49 (2001) Nr. 8, S. 1421-1428.
- 38) B. de Boer, N. Reger, L. Fernandez G.-R., J. Eickemeyer, B. Holzapfel, L. Schultz, W. Prusseit, P. Berberich, *Biaxially textured Ni-alloy tapes as substrates for buffer and YBCO film growth*, Physica C 351 (2001) Nr. 1, S. 38-41.
- 39) B. de Boer, N. Reger, G.R. Laura Fernandez, J. Eickemeyer, P. Berberich, W. Prusseit, B. Holzapfel, L. Schultz, *Biaxially textured Ni-alloy tapes as substrates for buffer and Y-Ba-Cu-O film growth*, IEEE Transactions on Applied Superconductivity 11 (2001) Nr. 1, S. 3477-3480.
- 40) A. de Simone, R.V. Kohn, S. Mueller, F. Otto, R. Schaefer, *Two-dimensional modelling of soft ferromagnetic films*, Proceedings of the Royal Society London A 457 (2001), S. 2983-2991.
- 41) S. Deledda, J. Eckert, L. Schultz, *Nanocrystalline CaO and ZrC as a second phase in amorphous Zr-Cu-Al-Ni matrix composites*, Journal of Metastable and Nanocrystalline Materials 10 (2001), S. 85-90.
- 42) P. Diko, G. Fuchs, G. Krabbes, *Influence of silver addition on cracking in melt-grown YBCO*, Physica C 363 (2001) Nr. 1, S. 60-66.

- 43) P. Diko, G. Krabbes, C. Wende, *Influence of Ag addition on crystallization and microstructure of melt-grown single-grain YBa₂Cu₃O₇ bulk superconductors*, Superconductor Science and Technology 14 (2001) Nr. 7, S. 486-495.
- 44) M. Divis, L. Steinbeck, M. Richter, P. Mohn, *Density functional prediction of a magnetic ground state of UFeSi*, Journal of Alloys and Compounds 321 (2001) Nr. 1, S. 10-16.
- 45) K. Doerr, T. Walter, M. Sahana, K.-H. Mueller, K. Nenkov, K. Brand, L. Schultz, *Magnetotransport of La_{0.7}Sr_{0.3}MnO₃/SrTiO₃ multilayers with ultrathin manganite layers*, Journal of Applied Physics 89 (2001) Nr. 11, S. 6973-6975.
- 46) M. Doerr, S. Kramp, M. Loewenhaupt, M. Rotter, R. Kratz, H. Krug, D. Eckert, H. Siegel, P. Verges, *Anomalous magnetic behaviour of NdCu₂ in high magnetic fields*, Physica B 294-295 (2001) Nr. Part II, S. 164-167.
- 47) S.-L. Drechsler, G. Paasch, J. Málek, *Conjugated polymers in a strong longitudinal electric field*, Synthetic Metals 119 (2001) Nr. 1-3, S. 255-256.
- 48) S.-L. Drechsler, H. Rosner, S.V. Shulga, I. Opahle, H. Eschrig, Freudenberger J., G. Fuchs, K. Nenkov, K.-H. Mueller, H. Bitterlich, W. Loeser, G. Behr, D. Lipp, A. Gladun, *A brief comparison of superconductivity in borocarbides and cuprates*, Physica C 364-365 (2001), S. 31-36.
- 49) C. Duerr, S. Legner, R. Hayn, S.V. Borisenko, Z. Hu, A. Teresiak, M. Knupfer, M.S. Golden, J. Fink, F. Ronning, Z.-X. Shen, H. Eisaki, S. Uchida, C. Janowitz, R. Mueller, R.L. Johnson, K. Rossnagel, L. Kipp, G. Reichardt, *Angle-resolved photoemission spectroscopy of Sr₂CuO₂Cl₂*, Physical Review B 63 (2001) Nr. 1, S. 14505/1-11.
- 50) L. Dunsch, A. Bartl, P. Georgi, P. Kuran, *New metallofullerenes in the size gap of C₇₀ to C₈₂: From La₂@C₇₂ to Sc₃N@C₈₀* Synthetic Metals 121 (2001) Nr. 1-3, S. 1113-1114.
- 51) L. Dunsch, P. Janda, K. Mukhopadhyay, H. Shinohara, *Electrochemical metal deposition on carbon nanotubes*, New Diamond and Frontier Carbon Technology 11 (2001) Nr. 6, S. 427-435.
- 52) S. Ebbinghaus, Z.W. Hu, A. Reller, *Determination of the oxidation states of Cu and Ru in the system La_{2-x}Sr_xCu_{1-y}Ru_yO_{4-δ} by XANES measurements*, Journal of Solid State Chemistry 156 (2001) Nr. 1, S. 194-202.
- 53) D. Eckert, R. Groessinger, M. Doerr, F. Fischer, A. Handstein, D. Hinz, H. Siegel, P. Verges, K.-H. Mueller, *High precision pick-up coils for pulsed field magnetization measurements*, Physica B 294-295 (2001) Nr. Part II, S. 705-708.
- 54) J. Eckert, S. Deledda, U. Kuehn, A. Reger-Leonhard, *Bulk metallic glasses and composites in multicomponent systems*, Materials Transactions 42 (2001) Nr. 4, S. 650-655.
- 55) J. Eckert, U. Kuehn, N. Mattern, A. Reger-Leonhard, M. Heilmaier, *Bulk nanostructured Zr-based multiphase alloys with high strength and good ductility*, Scripta Materialia 44 (2001) Nr. 8-9, S. 1587-1590.
- 56) J. Eckert, A. Reger-Leonhard, B. Weiss, M. Heilmaier, *Nanostructured materials in multicomponent alloy system*, Materials Science and Engineering A 301 (2001) Nr. 1, S. 1-11.
- 57) J. Eckert, A. Reger-Leonhard, B. Weiss, M. Heilmaier, L. Schultz, *Bulk nanostructured multicomponent alloys*, Advanced Engineering Materials 3 (2001) Nr. 1-2, S. 41-47.
- 58) J. Eickemeyer, D. Selbmann, R. Opitz, B. de Boer, B. Holzapfel, L. Schultz, U. Miller, *Nickel-refractory metal substrate tapes with high cube texture stability*, Superconductor Science and Technology 14 (2001) Nr. 3, S. 152-159.
- 59) D. Elefant, D. Tietjen, L. van Loyen, I. Moench, C.M. Schneider, *Dominant role of the size effect for saturation resistivity and giant magnetoresistance in Co/Cu multilayers*, Journal of Applied Physics 89 (2001) Nr. 11, S. 7118-7120.
- 60) H. Eschrig, W.E. Pickett, *Density functional theory of magnetic systems revisited*, Solid State Communications 118 (2001) Nr. 3, S. 123-127.
- 61) T. Fahr, H.-P. Trink, R. Schneider, C. Fischer, *Investigation of the formation of the Bi-2223 phase in multifilamentary Bi-2223/Ag tapes by in situ high temperature neutron diffraction*, IEEE Transactions on Applied Superconductivity 11 (2001) Nr. 1, S. 3399-3402.
- 62) O. Filip, A.M. El-Aziz, R. Hermann, K. Mummert, L. Schultz, *Effect of Al additives and annealing time on microstructure and corrosion resistance of Nd-Fe-B alloys*, Materials Letters 51 (2001) Nr. 3, S. 213-218.
- 63) O. Filip, R. Hermann, L. Schultz, *Growth kinetics and precipitation phenomena in undercooled Nd-Fe-B melts with Ti and C additions*, Journal of Magnetism and Magnetic Materials 234 (2001) Nr. 2, S. 247-254.
- 64) J. Fink, M. Knupfer, S. Atzkern, M.S. Golden, *Electronic correlations in solids, studied using electron energy-loss spectroscopy*, Journal of Electron Spectroscopy and Related Phenomena 117-118 (2001), S. 287-309.
- 65) D. Foerster, R. Hayn, T. Pruschke, M. Zoelfl, H. Rosner, *Metal-insulator transition in TlSr₂CoO₅ from orbital degeneracy and spin disproportionation*, Physical Review B 64 (2001) Nr. 7, S. 75104/1-10.
- 66) K. Franke, G. Martin, M. Weihnacht, A.V. Sotnikov, *SrBi₂Ta₂O₉ has only two polar axes - a problem for high density ferroelectric memory devices*, Solid State Communications 119 (2001) Nr. 3, S. 117-119.
- 67) J. Freudenberger, G. Fuchs, K.-H. Mueller, L. Schultz, *Miscibility gaps in R_xR' _{1-x}Ni₂B₂C compounds*, Materials Research Bulletin 36 (2001) Nr. 1-2, S. 117-121.

- 68) J. Frey, A. Schoenecker, F. Schlenkrich, J. Thomas, W. Hermel, *Investigation of interlayer phenomena in Ti/Pt electrodes for ferroelectric thin film devices*, Zeitschrift fuer Metallkunde 92 (2001) Nr. 2, S. 141-144.
- 69) G. Fuchs, G. Krabbes, *Dauermagnete aus Hochtemperatur-Supraleitern*, Physikalische Blaetter 57 (2001) Nr. 5, S. 61-64.
- 70) G. Fuchs, G. Krabbes, P. Schaetzle, S. Gruss, P. Verges, K.-H. Mueller, J. Fink, L. Schultz, H. Eschrig, *Bulk superconducting magnets with fields beyond 14 T*, Physica B 294-295 (2001) Nr. Part II, S. 398-401.
- 71) G. Fuchs, K.-H. Mueller, A. Handstein, K. Nenkov, V.N. Narozhnyi, D. Eckert, M. Wolf, L. Schultz, *Upper critical field and irreversibility line in superconducting MgB₂*, Solid State Communications 118 (2001) Nr. 10, S. 497-501.
- 72) G. Fuchs, K.A. Nenkov, A. Attenberger, K. Lueders, M. Baenitz, C. Ecker, K. Kajikawa, E.V. Antipov, H.R. Khan, *A uniform description of irreversibility lines for various high-T_c superconductors*, Physica C 355 (2001) Nr. 3-4, S. 299-306.
- 73) I. Galanakis, M. Alouani, P.M. Oppeneer, H. Dreysse, O. Eriksson, *Tuning the orbital moment in transition metal compounds using ligand states*, Journal of Physics: Condensed Matter 13 (2001) Nr. 20, S. 4553-4566.
- 74) I. Galanakis, P.M. Oppeneer, P. Ravindran, L. Nordstroem, P. James, M. Alouani, H. Dreysse, O. Eriksson, *Sign reversal of the orbital moment via ligand states*, Physical Review B 63 (2001) Nr. 17, S. 172405/1-4.
- 75) J. Gao, T. Volkmann, S. Roth, W. Loeser, D.M. Herlach, *Phase formation in undercooled NdFeB alloy droplets*, Journal of Magnetism and Magnetic Materials 234 (2001) Nr. 2, S. 313-319.
- 76) A. Gebert, K. Buchholz, A.M. El-Aziz, J. Eckert, *Hot water corrosion behaviour of Zr-Cu-Al-Ni bulk metallic glass*, Materials Science and Engineering A 316 (2001) Nr. 1-2, S. 60-65.
- 77) A. Gebert, J. Eckert, U. Kuehn, A. Reger-Leonhard, *Nanostructured Zr-based alloys - phase formation and mechanical properties*, Chinese Physics 10 (2001) Nr. Suppl., S. S40-S44.
- 78) A. Gebert, U. Wolff, A. John, J. Eckert, L. Schultz, *Stability of the bulk glass-forming Mg₆₅Y₁₀Cu₂₅ alloy in aqueous electrolytes*, Materials Science and Engineering A 299 (2001) Nr. 1-2, S. 125-135.
- 79) T. Gemming, *Quantitative HREM: Reliable structure determination of grain boundaries in SrTiO₃*, Microscopy and Microanalysis 7 (2001) Nr. Suppl. 2, S. 310-311.
- 80) S. Geupel, G. Zahn, P. Paufler, G. Graw, *Refinement of the crystal structure of diholmium trinickel hexaboride, Ho₂Ni₃B₆*, Zeitschrift fuer Kristallographie - New Crystal Structures 215 (2000) Nr. 4, S. 477-478.
- 81) S. Geupel, G. Zahn, P. Paufler, G. Graw, *Crystal structure of tetraholmium nickel tetradecaboride, Ho₄NiB₁₄*, Zeitschrift fuer Kristallographie - New Crystal Structures 216 (2001) Nr. 2, S. 175-176.
- 82) T. Goebel, S. Menzel, M. Hecker, W. Brueckner, K. Wetzig, Ch. Genzel, *Stress measurements in thermal loaded (Ti, Al)/N hard coatings*, Surface and Coatings Technology 142-144 (2001), S. 861-867.
- 83) M.S. Golden, C. Duerr, A. Koitzsch, S. Legner, Z.W. Hu, S. Borisenko, M. Knupfer, J. Fink, *The electronic structure of cuprates from high energy spectroscopy*, Journal of Electron Spectroscopy and Related Phenomena 117 (2001), S. 203-222.
- 84) R.S. Gonnelli, A. Morello, G.A. Ummarino, V.A. Stepanov, G. Behr, G. Graw, S.V. Shulga, S.-L. Drechsler, *Electron-phonon coupling origin of the resistivity in YNi₂B₂C single crystals*, International Journal of Modern Physics B 14 (2000) Nr. 25-27, S. 2840-2845.
- 85) T. Gouder, L. Havela, M. Divis, J. Rebizant, P.M. Oppeneer, M. Richter, *Surface electronic structure of UGax films*, Journal of Alloys and Compounds 314 (2001) Nr. 1-2, S. 7-14.
- 86) L. Gozzelino, A. Chiodoni, R. Gerbaldo, G. Ghigo, B. Minetti, E. Mezzetti, G. Krabbes, A. Rovelli, *Surface columnar defects on melt-textured Y-Ba-Cu-O*, IEEE Transactions on Applied Superconductivity 11 (2001) Nr. 1, S. 3525-3528.
- 87) G. Graw, K. Guenther, G. Behr, W. Loeser, K. Nenkov, U. Kraemer, *Phase relations and superconducting properties of YNi_{1-x}Cu_xBC compounds*, Journal of Alloys and Compounds 319 (2001) Nr. 1-2, S. 162-167.
- 88) C. Grazioli, Z. Hu, M. Knupfer, G. Graw, G. Behr, M.S. Golden, J. Fink, H. Giefers, G. Wortmann, K. Attenkofer, *Characteristic temperature dependence of the 4f occupancy in the Kondo system CeSi₂*, Physical Review B 63 (2001) Nr. 11, S. 115107/1-5.
- 89) R. Groessinger, A. Caneschi, M. Doerr, D. Eckert, F. Fischer, A. Handstein, D. Hinz, R. Kratz, H. Krug, K.-H. Mueller, M.A. Novak, H. Siegel, P. Verges, *Pulsed field studies on the quantum nanomagnet Mn₁₂Ac*, Physica B 294-295 (2001) Nr. Part II, S. 307-309.
- 90) W. Gruenberger, M. Heilmaier, L. Schultz, *Development of high-strength and high-conductivity conductor materials for pulsed high-field magnets at Dresden*, Physica B 294-295 (2001) Nr. Part II, S. 643-647.
- 91) W. Gruenberger, M. Heilmaier, L. Schultz, *High-strength pearlitic steel-copper composite wires for conductors in pulsed high-field magnets*, Materials Science and Engineering A 303 (2001) Nr. 1-2, S. 127-133.
- 92) S. Gruss, G. Fuchs, G. Krabbes, P. Verges, P. Schaetzle, K.-H. Mueller, J. Fink, L. Schultz, *Trapped fields beyond 14 Tesla in bulk YBa₂Cu₃O_{7-delta}*, IEEE Transactions on Applied Superconductivity 11 (2001) Nr. 1, S. 3720-3723.
- 93) S. Gruss, G. Fuchs, G. Krabbes, P. Verges, G. Stoeber, K.-H. Mueller, J. Fink, L. Schultz, *Superconducting bulk magnets: Very high trapped fields and cracking*, Applied Physics Letters 79 (2001) Nr. 19, S. 3131-3133.

- 94) O. Gutfleisch, A. Teresiak, B. Gebel, K.-H. Mueller, N.B. Cannesan, D. Brown, I.R. Harris, *Metastable borides and the induction of texture in Pr₂Fe₁₄B-type magnets produced by HDDR*, IEEE Transactions on Magnetics 37 (2001) Nr. 4, S. 2471-2473.
- 95) K. Haese, S.C. Wimbush, S. Paschen, B. Holzapfel, *Preparation of c-axis fibre textured YNi₂B₂C thin films by pulsed laser deposition: film structure and superconducting properties*, IEEE Transactions on Applied Superconductivity 11 (2001) Nr. 1, S. 3836-3839.
- 96) W. Haessler, M. Schubert, C. Rodig, V. Haas, M. Leghissa, T. Berthold, *Microstructure and electrical properties of BSCCO tapes with ceramic barriers*, IEEE Transactions on Applied Superconductivity 11 (2001) Nr. 1, S. 2951-2954.
- 97) A. Handstein, D. Hinz, G. Fuchs, K.-H. Mueller, K. Nenkov, O. Gutfleisch, V.N. Narozhnyi, L. Schultz, *Fully dense MgB₂ superconductor textured by hot deformation*, Journal of Alloys and Compounds 329 (2001), S. 285-289.
- 98) R. Hayn, Y. Kucherenko, J.J. Hinarejos, S.L. Molodtsov, C. Laubschat, *Simple numerical procedure for the spectral function of 4F photoexcitations*, Physical Review B 64 (2001) Nr. 11, S. 115106/1-11.
- 99) M. Hecker, D. Tietjen, D. Elefant, C.M. Schneider, An Qiu, N. Cramer, R.E. Camley, Z. Celinski, *Thermally activated deterioration processes in Co/Cu GMR multilayers*, Journal of Applied Physics 89 (2001) Nr. 11, S. 7113-7115.
- 100) M. Heilmaier, *Deformation behavior of Zr-based metallic glasses*, Journal of Materials Processing Technology 117 (2001), S. 374-380.
- 101) M. Heilmaier, U. Leetz, B. Reppich, *Order strengthening in the cast nickel-based superalloy IN 100 at room temperature*, Materials Science and Engineering A 319-321 (2001), S. 375-378.
- 102) M. Heilmaier, M. Nganbe, B. Beckers, H.-G. Brokmeier, R. Tamm, C.-G. Oertel, W. Skrotzki, *Plastic anisotropy of textured ODS nickel-base alloy PM 1000*, Materials Science and Engineering A 319-321 (2001), S. 290-293.
- 103) A. Heinrich, H. Griessmann, G. Behr, K. Ivanenko, J. Schumann, H. Vinzelberg, *Thermoelectric properties of β -FeSi₂ single crystals and polycrystalline β -FeSi_{2+x} thin films*, Thin Solid Films 381 (2001) Nr. 2, S. 287-295.
- 104) H. Hermann, F. Fugaciu, G. Seifert, *Towards controlled production of specific carbon nanostructures - a theoretical study on structural transformations of graphitic and diamond particles*, Applied Physics Letters 79 (2001) Nr. 1, S. 63-65.
- 105) H. Hermann, A. Heinemann, H.-D. Bauer, N. Mattern, U. Kuehn, A. Wiedenmann, *Ultrafine nanostructure of partially crystallized bulk amorphous Zr_{54.5}Ti_{7.5}Al₁₀Cu₂₀Ni₈*, Journal of Applied Crystallography 34 (2001), S. 666-668.
- 106) R. Hermann, I. Baecher, D.M. Matson, W. Loeser, L. Schultz, *Growth kinetics in levitated and quenched Nd-Fe-B alloys*, IEEE Transactions on Magnetics 37 (2001) Nr. 3, S. 1100-1105.
- 107) R. Hermann, J. Priede, G. Behr, G. Gerbeth, L. Schultz, *Influence of growth parameters and melt convection on the solid-liquid interface during RF-floating zone crystal growth of intermetallic compounds*, Journal of Crystal Growth 223 (2001) Nr. 4, S. 577-587.
- 108) F. Herrmann, M. Weihnacht, S. Buttgenbach, *Properties of sensors based on shear horizontal surface acoustic waves in LiTaO₃/SiO₂ and quartz/SiO₂ structures*, IEEE Transactions on Ultrasonics, Ferroelectric and Frequency Control 48 (2001) Nr. 1, S. 268-273.
- 109) D.-V. Hodoroba, W.E.S. Unger, H. Jenett, V. Hoffmann, B. Hagenhoff, S. Kayser, K. Wetzig, *Depth profiling of electrically non-conductive layered samples by RF-GDOES and HFM plasma SNMS*, Applied Surface Science 179 (2001) Nr. 1-4, S. 30-37.
- 110) V.-D. Hodoroba, E.B.M. Steers, V. Hoffmann, K. Wetzig, *The effect of small quantities of hydrogen on a glow discharge in neon. Comparison with the argon case*, Journal of Analytical and Atomic Spectrometry 16 (2001), S. 43-49.
- 111) B. Holzapfel, L. Fernandez, F. Schindler, B. de Boer, N. Reger, J. Eickemeyer, P. Berberich, W. Prusseit, *Grain boundary networks in Y₁₂₃ coated conductors: formation, properties and simulation*, IEEE Transactions on Applied Superconductivity 11 (2001) Nr. 1, S. 3872-3875.
- 112) A. Hu, N. Sakai, N. Chikumoto, M. Murakami, P. Verges, G. Fuchs, G. Krabbes, *A comparative study of enhanced flux pinning among melt-processed SmBa₂Cu₃O_{7- δ} , (Sm_{0.5}Eu_{0.5})Ba₂Cu₃O_{7- δ} , EuBa₂Cu₃O_{7- δ} superconductors*, Physica C 357-360 (2001), S. 461-465.
- 113) Z. Hu, G. Kaindl, A. Hayer, D. Reinen, *Kantennahe Roentgenfeinstruktur-Untersuchungen an Oxidkeramiken von Chrom, Cobalt und Nickel in verschiedenen Oxidationsstufen und deren bindungschemische Interpretation*, Zeitschrift fuer Anorganische und Allgemeine Chemie 627 (2001) Nr. 12, S. 2647-2653.
- 114) R. Huehne, C. Beyer, B. Holzapfel, C.-G. Oertel, L. Schultz, W. Skrotzki, *Formation and destruction of cube texture in MgO films using ion beam assisted pulsed laser deposition*, Journal of Applied Physics 90 (2001) Nr. 2, S. 1035-1039.
- 115) S. Ilkovic, M. Reiffers, B. Idzikowski, I. Batko, K.-H. Mueller, *Electron-quasiparticle interaction and electrical resistivity of cubic TmCu₅*, Journal of Magnetism and Magnetic Materials 226-230 (2001), S. 953-955.
- 116) A.M. Ionov, S. Danzenbaecher, S.L. Molodtsov, K. Koepernik, M. Richter, C. Laubschat, *Electronic structure of carbolite films*, Applied Surface Science 175-176 (2001), S. 207-211.

- 117) N. Ismail, A. Gebert, M. Uhlemann, J. Eckert, L. Schultz, *Effect of hydrogen on Zr₆₅Cu_{17.5}Al_{7.5}Ni₁₀ metallic glass*, Journal of Alloys and Compounds 314 (2001) Nr. 1-2, S. 170-176.
- 118) C. Jimenez, F. Weiss, J.-P. Senateur, A. Abrutis, M. Krellmann, D. Selbmann, J. Eickemeyer, O. Stadel, G. Wahl, *YBaCuO deposition by MOCVD on metallic substrates: a comparative study on buffer layers*, IEEE Transactions on Applied Superconductivity 11 (2001) Nr. 1, S. 2905-2908.
- 119) P. Joehnk, O. Moravcik, P. Schreiber, M. Ducky, D. Petrik, *EASY - elektronicky system na vypracovanie ziadosti o grantove prostriedky*, AT&P Journal 7 (2000) Nr. 12, S. 56-57.
- 120) O. Jost, A.A. Gorbunov, J. Moeller, W. Pompe, A. Graff, R. Friedlein, X. Liu, M.S. Golden, J. Fink, *Impact of catalyst coarsening on the formation of single-wall carbon nanotubes*, Chemical Physics Letters 339 (2001) Nr. 5-6, S. 297-304.
- 121) L. Kavan, P. Rapta, L. Dunsch, M.J. Bronikowski, P. Willis, R.E. Smalley, *Electrochemical tuning of electronic structure of single-walled carbon nanotubes: In-situ Raman and vis-NIR study*, The Journal of Physical Chemistry B 105 (2001) Nr. 44, S. 10764-10771.
- 122) E.P. Khlybov, I.E. Kostyleva, V.I. Nizhankovskii, T. Palewski, J. Warchulska, K. Nenkov, *Superconductivity and magnetic order in thallium-based cuprates*, Physica B 294-295 (2001), S. 367-370.
- 123) H.J. Kim, C.J. Kim, J.H. Joo, G. Fuchs, G.W. Hong, *Effects of grain boundaries on the levitation force and trapped magnetic field of the multi-seeded melt growth processed YBCO superconductors*, Physica C 357 (2001) Nr. part 1, S. 899-902.
- 124) Y.D. Kim, H. Over, G. Krabbes, G. Ertl, *Identification of RuO₂ as the active phase in Co oxidation on oxygen-rich ruthenium surfaces*, Topics in Catalysis 14 (2001) Nr. 1-4, S. 95-100.
- 125) A. Kirchner, D. Hinz, V. Panchanathan, O. Gutfleisch, K.-H. Mueller, L. Schultz, *Improved hot workability and magnetic properties in NdFeCoGaB hot deformed magnets*, IEEE Transactions on Magnetics 36 (2000) Nr. 5/Part I, S. 3288-3290.
- 126) J. Knauf, R. Semerad, W. Prusseit, B. de Boer, J. Eickemeyer, *YBaCuO - deposition on metal tape substrates*, IEEE Transactions on Applied Superconductivity 11 (2001) Nr. 1, S. 2885-2888.
- 127) M. Knupfer, *Electronic properties of carbon nanostructures*, Surface Science Reports 42 (2001) Nr. 1-2, S. 1-74.
- 128) M. Knupfer, J. Fink, D. Fichou, *Strongly confined polaron excitations in charged organic semiconductors*, Physical Review B 63 (2001) Nr. 16, S. 165203/1-4.
- 129) M. Knupfer, E. Zojer, G. Leising, J. Fink, *The size of electron-hole pairs in pi-conjugated oligomers*, Synthetic Metals 119 (2001) Nr. 1-3, S. 499-502.
- 130) G. Koebernik, W. Haessler, H.-D. Bauer, F. Weiss, K. Kundzins, A. Sternberg, *Structural and dielectric properties of BaTiO₃/SrTiO₃-multilayers deposited by PLD*, Integrated Ferroelectrics 33 (2001) Nr. 1-4, S. 373-378.
- 131) S. Koestlmeier, S. Nufer, T. Gemming, M. Ruehle, *Variation of the ELNES under channeling conditions*, Microscopy and Microanalysis 7 (2001) Nr. Suppl. 2, S. 342-343.
- 132) B. Kramer, L. Schultz, *65. Physikertagung in Hamburg*, Physikalische Blaetter 57 (2001) Nr. 7/8, S. 35-36.
- 133) H. Krug, M. Doerr, D. Eckert, H. Eschrig, F. Fischer, P. Fulde, R. Groessinger, A. Handstein, F. Herlach, D. Hinz, R. Kratz, M. Loewenhaupt, K.-H. Mueller, F. Pobell, L. Schultz, H. Siegel, F. Steglich, P. Verges, *The Dresden high-magnetic field laboratory - overview and first results*, Physica B 294-295 (2001) Nr. Part II, S. 605-611.
- 134) M. Kubis, D.N. Brown, O. Gutfleisch, B. Gebel, K.-H., Schultz, L. Mueller, I.R. Harris, *Effect of small Zr additions on the microstructure of Sm₂Fe₁₇*, IEEE Transactions on Magnetics 36 (2000) Nr. 5/Part I, S. 3303-3305.
- 135) W. Kuch, C.M. Schneider, *Magnetic dichroism in valence-band photoemission*, Reports on Progress in Physics 64 (2001) Nr. 2, S. 147-204.
- 136) S. Kudela, A. John, S. Baunack, jr. S. Kudela, K. Wetzig, *Auger spectroscopy study of MgLi melt affected carbon/pyrocarbon fibres*, Applied Surface Science 179 (2001) Nr. 1-4, S. 129-132.
- 137) J. Kunes, P. Novak, M. Divis, P.M. Oppeneer, *Magnetic, magneto-optical, and structural properties of URhAl from first-principles calculations*, Physical Review B 63 (2001) Nr. 20, S. 205111/1-9.
- 138) J. Kunes, P.M. Oppeneer, H.-Ch. Mertins, F. Schaefer, A. Gaupp, W. Gudat, P. Novák, *X-Ray Faraday effect at the L_{2,3} edges of Fe, Co and Ni: Theory and experiment*, Physical Review B 64 (2001) Nr. 17, S. 174417/1-10.
- 139) R. Kurt, A. Karimi, V. Hoffmann, *Growth of decorated carbon nano-tubes*, Chemical Physics Letters 335 (2001) Nr. 5-6, S. 545-552.
- 140) H. Kuzmany, W. Plank, M. Hulman, Ch. Kramberger, A. Grueneis, Th. Pichler, H. Peterlik, H. Kataura, Y. Achiba, *Determination of SWCNT diameters from the Raman response of the radial breathing mode*, European Physical Journal B 22 (2001) Nr. 3, S. 307-320.
- 141) M.D. Kuzmin, *Magnetostriction of DyFe₂ and HoFe₂ - validity of the single-ion model*, Journal of Applied Physics 89 (2001) Nr. 10, S. 5592-5596.

- 142) M.D. Kuzmin, M. Richter, H. Eschrig, K.H.J. Buschow, *Sign reversal of the crystal field anisotropy in Fe-rich vs. Co-rich intermetallics with ThMn₁₂ structure: theory*, Journal of Magnetism and Magnetic Materials 226 (2001) Nr. part 2, S. 1118-1119.
- 143) H. Lauschmann, K. Wetzig, S. Menzel, T. Goebel, *Fractography of crack networks in thin layers*, Materials Characterization 46 (2001) Nr. 2/3, S. 105-111.
- 144) M. Leghissa, J. Rieger, R. Nanke, M.P. Oomen, T. Berthold, H.-W. Neumueller, B. Fischer, J. Gierl, W. Haessler, M. Schubert, V. Haas, *Development and characterization of Bi-2223 conductors for HTS transformer applications*, IEEE Transactions on Applied Superconductivity 11 (2001) Nr. 1, S. 2943-2946.
- 145) A. Leonhardt, M. Ritschel, K. Bartsch, A. Graff, C. Taeschner, J. Fink, *Chemical vapour deposition - a promising method for production of different kinds of carbon nanotubes*, Journal de Physique IV 11 (2001), S. Pr3-445-451.
- 146) J. Lindner, F. Weiss, J.P. Senateur, W. Haessler, G. Koebernik, S. Oswald, A. Figueras, J. Santiso, *Growth of BaTiO₃/SrTiO₃ superlattices by injection MOCVD*, Integrated Ferroelectrics 30 (2000) Nr. 1-4, S. 53-59.
- 147) K.W. Liu, F. Muecklich, W. Pitschke, R. Birringer, K. Wetzig, *Synthesis of nanocrystalline B2 structured (Ru, Ir)Al in the ternary Ru-Al-Ir system by mechanical alloying and its thermal stability*, Zeitschrift fuer Metallkunde 92 (2001) Nr. 8, S. 924-930.
- 148) K.W. Liu, F. Muecklich, W. Pitschke, R. Birringer, K. Wetzig, *Formation of nanocrystalline B2-structured (Ru, Ni)Al in the ternary Ru-Al-Ni system by mechanical alloying and its thermal stability*, Materials Science and Engineering A 313 (2001) Nr. 1-2, S. 187-197.
- 149) X. Liu, T. Pichler, M. Knupfer, M.S. Golden, J. Fink, D.A. Walters, M.J. Casavant, J. Schmidt, R.E. Smalley, *An electron energy-loss study of the structural and electronic properties of magnetically aligned single wall carbon nanotubes*, Synthetic Metals 121 (2001) Nr. 1-3, S. 1183-1186.
- 150) P. Majewski, A. Aubele, T. Fahr, F. Aldinger, *Cu diffusion into Ag during BSCCO tape processing*, Physica C 351 (2001) Nr. 1, S. 62-66.
- 151) S. Majumdar, H. Bitterlich, G. Behr, W. Loeser, P.L. Paulose, E.V. Sampathkumaran, *Magnetic and transport behavior of single-crystalline Dy₂PdSi₃*, Physical Review B 64 (2001) Nr. 1, S. 12418/1-4.
- 152) S.S. Manoharan, S.J. Prasanna, D. Elefant, I. Kiwitz, C.M. Schneider, *Magnetoresistance in microwave synthesized Ag₂+deltaSe (0.0 < delta < 0.2)*, Physical Review B 63 (2001) Nr. 21, S. 212405/1-4.
- 153) N. Mattern, S. Roth, H.-D. Bauer, G. Henninger, J. Eckert, *Influence of iron additions on structure and properties of amorphous Zr₆₅Al_{7.5}Cu_{17.5}Ni₁₀*, Materials Science and Engineering A 304-306 (2001), S. 311-314.
- 154) N. Mattern, S. Roth, U. Kuehn, M. Hofman, H.-D. Bauer, J. Eckert, *Formation and nanocrystals by crystallisation of Zr-Al-Cu-Ni-Fe metallic glasses*, Materials Transactions 42 (2001) Nr. 8, S. 1509-1516.
- 155) C. Mazumdar, Z. Hu, H. von Lips, M.S. Golden, J. Fink, P.C. Canfield, G. Kaindl, *Polarization-dependent X-ray-absorption spectroscopy of RNi₂B₂ (R=Er to Lu): Reduced Ni-3d occupancy in YbNi₂B₂C*, Physical Review B 64 (2001) Nr. 2, S. 20504/1-4.
- 156) P.J. McGuinness, S. Kobe, I. Skulj, A. Bollero, O. Gutfleisch, E.J. Devlin, D. Niarchos, *Coercivity variations with Pr- and Zr-substituted NdDyFeB-based HDDR powders*, Journal of Magnetism and Magnetic Materials 237 (2001) Nr. 3, S. 267-275.
- 157) H.-Ch. Mertins, P.M. Oppeneer, J. Kunes, A. Gaupp, D. Abramssohn, F. Schaefers, *Observation of the X-ray magneto-optical Voigt effect*, Physical Review Letters 87 (2001) Nr. 4, S. 47401/1-4.
- 158) H.-Ch. Mertins, F. Schaefers, A. Gaupp, W. Gudat, J. Kunes, P.M. Oppeneer, *Soft X-ray magnetic dichroism and Faraday rotation measured with linearly polarised light*, Nuclear Instruments and Methods in Physics Research A 467-468 (2001), S. 1407-1410.
- 159) E. Mezzetti, R. Gerbaldo, G. Ghigo, L. Gozzelino, B. Minetti, G. Krabbes, A. Rovelli, *Correlation and Competition between surface columnar defects and intrinsic defects in melt-textured YBCO*, Physica C 354 (2001) Nr. 1-4, S. 289-293.
- 160) C. Mitra, P. Raychaudhuri, G. Koebernik, K. Doerr, K.-H. Mueller, L. Schultz, R. Pinto, *p-n diode with hole- and electron-doped lanthanum manganites*, Applied Physics Letters 79 (2001) Nr. 15, S. 2408-2410.
- 161) N. Mitrovic, S. Roth, J. Eckert, *Kinetics of the glass-transition and crystallization process of Fe₇₂-xNb_xAl₅Ga₂P₁₁C₆B₄ (x=0,2) metallic glasses*, Applied Physics Letters 78 (2001) Nr. 15, S. 2145-2147.
- 162) A. Moebius, P. Thomas, J. Talamantes, C.J. Adkins, *Specific heat of the Coulomb glass*, Philosophical Magazine B 81 (2001) Nr. 9, S. 1105-1116.
- 163) P. Mohn, C. Persson, P. Blaha, K. Schwarz, P. Novák, H. Eschrig, *Correlation induced paramagnetic ground state in FeAl*, Physical Review Letters 87 (2001) Nr. 19, S. 196401/1-4.
- 164) S.L. Molodtsov, S.V. Halilov, M. Richter, A. Zangwill, C. Laubschat, *Interpretation of resonant photoemission spectra of solid actinide systems*, Physical Review Letters 87 (2001) Nr. 1, S. 17601/1-4.
- 165) S.L. Molodtsov, S.V. Halilov, V.D.V. Servedio, M. Richter, C. Laubschat, *Solid state effects in photoionization cross sections: Cooper minima in photoemission*, Nuclear Instruments & Methods in Physics Research A 470 (2001) Nr. 1-2, S. 274-277.
- 166) S.L. Molodtsov, W. Schneider, A.B. Preobrajenski, J. Boysen, M. Richter, T. Chassé, C. Laubschat, *Electronic structure and surface reconstruction of DyNi films grown on W(110)*, Surface Science 482-485 (2001), S. 746-751.

- 167) V.G. Mozhaev, F. Bosia, M. Weihnacht, *Oblique acoustic axes in trigonal crystals*, Journal of Computational Acoustics 9 (2001) Nr. 3, S. 1147-1161.
- 168) V.G. Mozhaev, F. Bosia, M. Weihnacht, *Effects of piezoelectricity on acoustic axes in crystals*, Annales de Chimie - Science des Matériaux 26 (2001) Nr. 1, S. 59-62.
- 169) K.-H. Mueller, D. Eckert, F. Fischer, A. Handstein, D. Hinz, R. Kratz, H. Krug, Ph. Oleinek, S. Siegel, P. Verges, M. Wolf, J.B. Yang, *First-order magnetization process in Nd(Fe, M)12Zy (M=Mo, Ti, V, Z=C,N)*, Physica B 294-295 (2001) Nr. Part II, S. 203-207.
- 170) K.-H. Mueller, G. Fuchs, *MgB2-Supraleiter: Erste Anwendungen in Sicht?*, Physikalische Blätter 57 (2001) Nr. 7/8, S. 21-22.
- 171) K.-H. Mueller, G. Fuchs, A. Handstein, K. Nenkov, V.N. Narozhnyi, D. Eckert, *The upper critical field in superconducting MgB2*, Journal of Alloys and Compounds 322 (2001) Nr. 1-2, S. L10-L13.
- 172) K.-H. Mueller, G. Krabbes, J. Fink, S. Gruss, A. Kirchner, G. Fuchs, L. Schultz, *New permanent magnets*, Journal of Magnetism and Magnetic Materials 226 (2001) Nr. part 2, S. 1370-1376.
- 173) K.-H. Mueller, V.N. Narozhnyi, *Magnetischer Kohlenstoff*, Physikalische Blätter 57 (2001) Nr. 12, S. 18-19.
- 174) K.-H. Mueller, V.N. Narozhnyi, *Interaction of superconductivity and magnetism in borocarbide superconductors*, Reports on Progress in Physics 64 (2001) Nr. 8, S. 943-1008.
- 175) M. Mueller, H. Grahl, N. Mattern, B. Schnell, *The influence of M = Mo, Nb in Fe80(B,M,Cu)20-type alloys on the crystallization behaviour and on the magnetic properties*, Materials Science and Engineering A 304-306 (2001), S. 353-356.
- 176) U. Muschiol, M. Seider, C.M. Schneider, *Electronic structure of epitaxial NixPd1-x alloy films on Cu3Au(100)*, Journal of Applied Physics 89 (2001) Nr. 11, S. 6892-6894.
- 177) V.N. Narozhnyi, G. Fuchs, J. Freudenberger, K. Nenkov, K.-H. Mueller, *Superconducting and normal state properties of Y1-xPrxNi2B2C*, Physica C 364-365 (2001), S. 571-574.
- 178) V. Neu, L. Schultz, *Two-phase high-performance Nd-Fe-B powders prepared by mechanical milling*, Journal of Applied Physics 90 (2001) Nr. 3, S. 1540-1544.
- 179) P.H. Nguyen, G. Paasch, *Influence of bipolaron lattice formation on CV, ESR and EQCM at finite rate constants*, Synthetic Metals 119 (2001) Nr. 1-3, S. 341-342.
- 180) P.H. Nguyen, S. Scheinert, S. Berleb, W. Bruetting, G. Paasch, *The influence of deep traps on transient current-voltage characteristics of organic light-emitting diodes*, Organic Electronics 2 (2001), S. 105-120.
- 181) A. Niazi, E.V. Sampathkumaran, P.L. Paulose, D. Eckert, A. Handstein, K.-H. Mueller, *Sr3CuIrO6, a spin-chain compound with random ferromagnetic-antiferromagnetic interactions*, Solid State Communications 120 (2001) Nr. 1, S. 11-15.
- 182) S.A. Nikitin, N.V. Tristan, T. Palewski, Yu.V. Skourski, K. Nenkov, V.N. Verbetsky, A.A. Salamova, *Metal-semiconductor-insulator transitions in R3Ni compounds induced by hydrogenation*, Journal of Alloys and Compounds 314 (2001) Nr. 1-2, S. 22-28.
- 183) K. Noworyta, P. Kuran, E.A. Nantsis, R. Bilewicz, L. Dunsch, W. Kutner, *Surface properties of Langmuir films of mono-, di-, and tetra-n-octyl adducts of C-60 at the water-air interface*, Synthetic Metals 123 (2001) Nr. 1, S. 157-164.
- 184) R. Nuffer, A. Bartl, L. Dunsch, C. Mathis, *Polystyrene hexa-adducts of higher fullerenes*, Synthetic Metals 121 (2001) Nr. 1-3, S. 1151-1152.
- 185) L. Omelka, S. Ondrásova, L. Dunsch, A. Petr, A. Stasko, *Radical products in the chemical oxidation of amines. An ESR study of secondary cation radicals from aniline and derivatives of 1,2-phenylenediamine*, Monatshefte fuer Chemie 132 (2001) Nr. 5, S. 597-606.
- 186) S. Oswald, R. Reiche, *Binding state information from XPS depth profiling: capabilities and limits*, Applied Surface Science 179 (2001) Nr. 1-4, S. 307-315.
- 187) G. Paasch, *Complete electrochemical transmission line model for conducting polymers*, Synthetic Metals 119 (2001) Nr. 1-3, S. 233-234.
- 188) G. Paasch, S. Scheinert, *Simulation and modeling of C-V curves of OLEDs with trap states for the holes*, Synthetic Metals 122 (2001) Nr. 1, S. 145-147.
- 189) H. Peisert, T. Schwieger, J.M. Auerhammer, M. Knupfer, M.S. Golden, J. Fink, P.R. Bressler, M. Mast, *Order on disorder: Copper phthalocyanine thin films on technical substrates*, Journal of Applied Physics 90 (2001) Nr. 1, S. 466-469.
- 190) H. Peisert, T. Schwieger, M. Knupfer, M.S. Golden, J. Fink, *Interface properties of Alq3/TPD on sputter-cleaned ITO*, Synthetic Metals 121 (2001) Nr. 1-3, S. 1435-1436.
- 191) L. Peter, A. Cziraki, L. Pogany, Z. Kupay, I. Bakonyi, M. Uhlemann, M. Herrich, B. Arnold, H.-D. Bauer, K. Wetzig, *Microstructure and giant magnetoresistance of electrodeposited Co-Cu/Cu multilayers*, Journal of the Electrochemical Society 148 (2001) Nr. 3, S. C168-C176.
- 192) T. Pichler, *Electron energy-loss studies of pristine and doped nanotubes*, New Diamond and Frontier Carbon Technology 11 (2001) Nr. 6, S. 375-397.
- 193) T. Pichler, M. Knupfer, M.S. Golden, J. Fink, T. Cabioc'h, *Electronic structure and optical properties of concentric-shell fullerenes from electron-energy-loss spectroscopy in transmission*, Physical Review B 63 (2001) Nr. 15, S. 155415/1-5.

- 194) T. Pichler, H. Kuzmany, H. Kataura, Y. Achiba, *Metallic polymers of C60 inside single-walled carbon nanotubes*, Physical Review Letters 87 (2001) Nr. 26, S. 267401/1-4.
- 195) T. Pichler, H. Kuzmany, N. Tagmatarchis, K. Prassides, *Phases for the azafullerides RbxC59N*, Physical Review B 63 (2001) Nr. 14, S. 140301/1-4.
- 196) W. Pitschke, D. Hofman, J. Schumann, C.A. Kleint, A. Heinrich, T. Burkov, *Structure of nanocrystalline Re-Si thin film composites and their unusual thermoelectric properties*, Journal of Applied Physics 89 (2001) Nr. 6, S. 3229-3241.
- 197) W. Plank, T. Pichler, H. Kuzmany, *The phases of quenched fullerenes RbC60*, Synthetic Metals 121 (2001) Nr. 1-3, S. 1107-1108.
- 198) A. Plotnikov, C. Vogt, V. Hoffmann, C. Taeschner, K. Wetzig, *Application of laser ablation inductively coupled plasma quadrupole mass spectrometry (LA-ICP-QMS) for depth profile analysis*, Journal of Analytical and Atomic Spectrometry 16 (2001), S. 1290-1295.
- 199) P. Rapta, L. Dunsch, *Dimerisation of organic radical ions and redox reactions of dimers as studied by temperature-dependent in situ ESR/UV-vis-NIR spectroelectrochemistry*, Journal of Electroanalytical Chemistry 507 (2001) Nr. 1-2, S. 287-292.
- 200) P. Rapta, A. Petr, L. Dunsch, *Conducting polymers at electrode surfaces as studied by in situ ESR/UV-Vis-NIR spectroscopy*, Synthetic Metals 119 (2001) Nr. 1-3, S. 409-410.
- 201) R. Reiche, S. Oswald, K. Wetzig, *XPS and factor analysis for investigation of sputter-cleaned surfaces of metal (Re, Ir, Cr)-silicon thin films*, Applied Surface Science 179 (2001) Nr. 1-4, S. 316-323.
- 202) H. Reuther, G. Behr, A. Teresiak, *Determination of the hyperfine parameters of alpha-FeSi2 by angle dependent Moessbauer spectroscopy on single crystals*, Journal of Physics: Condensed Matter 13 (2001) Nr. 11, S. L225-L229.
- 203) J. Richter, M. Mertig, W. Pompe, I. Moench, H.K. Schackert, *Construction of highly conductive nanowires on a DNA template*, Applied Physics Letters 78 (2001) Nr. 4, S. 536-538.
- 204) U.K. Roessler, *Ising dipoles on the triangular lattice*, Journal of Applied Physics 89 (2001) Nr. 11, S. 7033-7035.
- 205) U.K. Roessler, K.-H. Mueller, *Anomalous viscosity and thermal remagnetization in Monte-Carlo simulations of planar random spin-models*, IEEE Transactions on Magnetics 36 (2000) Nr. 5/1, S. 3202-3204.
- 206) U.K. Roessler, J. Noetzel, A. Tselev, K. Nenkov, A. Handstein, D. Eckert, K.-H. Mueller, *Giant magnetoresistance and magnetism of heterogeneous CoCu produced by ion-beam techniques*, Sensors and Actuators A 91 (2001) Nr. 1-2, S. 169-172.
- 207) H. Rosner, S.-L. Drechsler, K. Koepf, R. Hayn, H. Eschrig, *Possibility of a spin-Peierls state in CuSiO3 from electronic structure theory*, Physical Review B 63 (2001) Nr. 7, S. 73104/1-4.
- 208) H. Rosner, D.M. Johannes, S.-L. Drechsler, *Comment on: „Energy band structures of the low-dimensional antiferromagnets Sr2CuO3 and Sr2CuO2Cl2“ <J.Appl..Phys. 87, 4897 (2001)>*, Journal of Applied Physics 90 (2001) Nr. 9, S. 4880-4881.
- 209) H. Rosner, W.E. Pickett, S.-L. Drechsler, A. Handstein, G. Behr, G. Fuchs, K. Nenkov, K.-H. Mueller, H. Eschrig, *Electronic structure and weak electron-phonon coupling in TaB2*, Physical Review B 64 (2001) Nr. 14, S. 144516/1-6.
- 210) M. Rotter, M. Doerr, M. Loewenhaupt, U. Witte, P. Svoboda, J. Vejpravová, H. Sassik, C. Ritter, D. Eckert, A. Handstein, D. Hinz, *Anomalous magnetic exchange interactions in SmCu2*, Physical Review B 64 (2001) Nr. 13, S. 134405/1-6.
- 211) K. Ruck, K. Doerr, K. Nenkov, K.-H. Mueller, G. Krabbes, B. Schuepp, M. Khristov, *Magnetic and transport properties of Nd0.2La1.8-2xSr1+2xMn2O7 (x=0.5, 0.4, 0.3) and La1.5Sr1.5Mn2O7*, Journal of Physics: Condensed Matter 13 (2001) Nr. 7, S. 1571-1583.
- 212) K. Ruck, M. Wolf, M. Ruck, D. Eckert, G. Krabbes, K.-H. Mueller, *„CaCu2O3“ - A nonstoichiometric compound: Structural disorder and magnetic properties*, Materials Research Bulletin 36 (2001) Nr. 11, S. 1995-2002.
- 213) F.D. Saccone, F.H. Sánchez, C. Rodriguez Torres, B. Gebel, O. Gutfleisch, *Determination of the fraction of t-Fe3B in hydrogen disproportionated Hf-doped Nd-Fe-B alloy by Moessbauer spectroscopy*, Journal of Magnetism and Magnetic Materials 226 (2001) Nr. part 2, S. 1461-1463.
- 214) M. Sahana, T. Walter, K. Doerr, K.-H. Mueller, D. Eckert, K. Brand, *Magnetic properties of heteroepitaxial La0.7Sr0.3MnO3/SrTiO3 superlattices*, Journal of Applied Physics 89 (2001) Nr. 11, S. 6834-6836.
- 215) V.S. Sarma, G. Jaeger, A. Koethe, *On the comparison of crack closure evaluation using dynamic and static compliance measurements*, International Journal of Fatigue 23 (2001) Nr. 8, S. 741-745.
- 216) R. Schaefer, G. Herzer, *Continuous magnetization patterns in amorphous ribbons*, IEEE Transactions on Magnetics 37 (2001) Nr. 4, S. 2245-2247.
- 217) H.P.D. Schenk, E. Feltn, M. Vaille, P. Gibart, R. Kunze, H. Schmidt, M. Weinhacht, E. Dogheche, *Acoustical and optical gallium nitride waveguides grown on Si(111) by metalorganic vapor phase epitaxy*, Physica Status Solidi (a) 188 (2001) Nr. 2, S. 537-541.
- 218) C.M. Schneider, O. de Haas, U. Muschiol, N. Cramer, A. Oelsner, M. Klais, O. Schmidt, G.H. Fecher, W. Jark, G. Schoenhense, *Photoemission microscopy from magnetically coupled thin-film systems*, Journal of Magnetism and Magnetic Materials 233 (2001) Nr. 1-2, S. 14-20.

- 219) C.M. Schneider, K.-H. Mueller, *Foreword to the 3rd European Conference on Magnetic Sensors and Actuators EMSA 2000, Dresden, 19.-21.7.00*, Sensors and Actuators A 91 (2001) Nr. 1-2, S. 1.
- 220) M. Schneider, D. Lipp, A. Gladun, P. Zahn, A. Handstein, G. Fuchs, S.-L. Drechsler, M. Richter, K.-H. Mueller, H. Rosner, *Heat and charge transport properties of MgB₂*, Physica C 363 (2001) Nr. 1, S. 6-12.
- 221) C. Schoenborn, H.-D. Bauer, I. Roeske, *Stability of enhanced biological phosphorus removal and composition of polyphosphate granules*, Water Research 35 (2001) Nr. 13, S. 3190-3196.
- 222) F. Schurack, J. Eckert, L. Schultz, *Synthesis and mechanical properties of cast quasicrystal-reinforced Al alloys*, Acta Materialia 49 (2001) Nr. 8, S. 1351-1361.
- 223) T. Schwieger, H. Peisert, M. Knupfer, M.S. Golden, J. Fink, *Electronic structure of K-intercalated 8-tris-hydroxyquinoline aluminum studied by photoemission spectroscopy*, Physical Review B 63 (2001) Nr. 16, S. 165104/1-5.
- 224) C. Sekar, T. Watanabe, A. Matsuda, H. Shibata, Y. Akimitsu, J. Zenitani, *Crystal growth and transport properties of 4-leg spin-ladder compound La₂Cu₂O₅: occurrence of insulator-metal transition*, International Journal of Inorganic Materials 3 (2001) Nr. 8, S. 1201-1203.
- 225) H. Shaikh, G. George, F. Schneider, K. Mummert, H.S. Khatak, *Effect of high-temperature aging on the corrosion behavior of nitrogen added AISI type 316 stainless steel weld metal*, Transactions of the Indian Institute of Metals 54 (2001) Nr. 1-2, S. 27-39.
- 226) T.C. Shields, J.S. Abell, T.W. Button, W. Haessler, G. Risse, K. Fischer, L. Schultz, *Melt processing of superconducting YBa₂Cu₃O₇ partial derivative thickfilms on AgPd substrates via atmosphere control*, Journal of Materials Science 35 (2000) Nr. 24, S. 6105-6110.
- 227) C. Silién, I. Marenne, J. Auerhammer, N. Tagmatarchis, K. Prassides, P.A. Thiry, P. Rudolf, *Adsorption of fullerene and azafullerene on Cu(111) studied by electron energy loss spectroscopy*, Surface Science 482-485 (2001), S. 1-8.
- 228) L. Siurakshina, D. Ihle, R. Hayn, *Magnetic order and finite-temperature properties of the two-dimensional frustrated Heisenberg model*, Physical Review B 64 (2001) Nr. 10, S. 104406/1-5.
- 229) E.P. Smirnova, A.V. Sotnikov, M. Weinhacht, W. Haessler, V.V. Lemanov, *Phase transition of SrTiO₃-PbZrO₃ solid solution*, Journal of the European Ceramic Society 21 (2001) Nr. 10-11, S. 1341-1344.
- 230) V. Srivastava, V.S. Sarma, K.A. Padmanabhan, *Influence of microstructure on the low and high cycle fatigue behaviour of a medium carbon microalloyed steel*, Zeitschrift fuer Metallkunde 92 (2001) Nr. 12, S. 1312-1318.
- 231) L. Steinbeck, M. Richter, H. Eschrig, *Itinerant-electron magnetocrystalline anisotropy energy of YCo₅ and related compounds*, Physical Review B 63 (2001) Nr. 18, S. 184431/1-14.
- 232) L. Steinbeck, M. Richter, H. Eschrig, *Magnetocrystalline anisotropy of RCo₅ intermetallics: itinerant-electron contribution*, Journal of Magnetism and Magnetic Materials 226 (2001) Nr. part 1, S. 1011-1013.
- 233) Z.G. Sun, H.W. Zhang, S.Y. Zhang, J.Y. Wang, B.G. Shen, *The magnetocrystalline anisotropy of R₂Co_{17-x}Mnx (R=Pr, Nd, Tb, Dy and Ho) compounds*, IEEE Transactions on Magnetics 37 (2001) Nr. 4, S. 2543-2545.
- 234) D. Szczuko, J. Werner, G. Behr, S. Oswald, K. Wetzig, *Surface-related investigations to characterize different preparation techniques of Sb-doped SnO₂ powders*, Surface and Interface Analysis 31 (2001) Nr. 6, S. 484-491.
- 235) D. Szczuko, J. Werner, S. Oswald, G. Behr, K. Wetzig, *XPS investigations of surface segregation of doping elements in SnO₂*, Applied Surface Science 179 (2001) Nr. 1-4, S. 301-306.
- 236) Ch. Taeschner, B. Ljungberg, V. Hoffmann, C. Vogt, A. Leonhardt, *Deposition of TiN, TiC and Ti_{1-x}Al_xN coatings by pulsed d.c. plasma enhanced chemical vapour deposition methods*, Surface and Coatings Technology 142-144 (2001), S. 823-828.
- 237) T. Tagmatarchis, H. Shinohara, T. Pichler, M. Krause, H. Kuzmany, *Electronic absorption and vibrational spectroscopy of azafullerene C₅₉H_N and its oxide C₅₉H_NO*, Journal of the Chemical Society, Perkin Transactions 2 (2000) Nr. 12, S. 2361-2362.
- 238) J. Tarabek, M. Wolter, P. Rapta, W. Plieth, M. Maumy, L. Dunsch, *Functionalized conducting polymers for chemical sensors - an in-situ ESR/UV-vis-NIR voltammetric study*, Macromolecular Symposia 164 (2001), S. 219-225.
- 239) M. Taut, *Wigner crystallization of a two-dimensional electron gas in a magnetic field: Single electrons versus electron pairs at the lattice sites*, Physical Review B 64 (2001) Nr. 16, S. 165315/1-6.
- 240) M. Taut, *Excitation spectra of harmonic quantum dot lattices with Coulomb interaction between the dots and the broken generalized Kohn theorem*, Physical Review B 63 (2001) Nr. 11, S. 115319/1-9.
- 241) S. Tegen, I. Moench, J. Schumann, H. Vinzelberg, C.M. Schneider, *Effect of Néel coupling on magnetic tunnel junctions*, Journal of Applied Physics 89 (2001) Nr. 12, S. 8169-8174.
- 242) A. Teresiak, M. Kubis, N. Mattern, K.-H. Mueller, B. Wolf, *Crystal structure of Sm₂Fe_{17-y}My compounds with M=Al, Si, Ga*, Journal of Alloys and Compounds 319 (2001) Nr. 1-2, S. 168-173.
- 243) J. Thomas, T. Fliervoet, K. Wetzig, *Analysis of nanoscale multilayers by EDXS and EELS in the STEM*, Applied Surface Science 179 (2001) Nr. 1-4, S. 61-67.

- 244) J.L. Uriarte, T. Zhang, S. Deledda, G. Vaughan, A.R. Yavari, A. Inoue, A. Kvik, *Real-time detection of metastable phases in Zr-based bulk glasses during fast heating in a synchrotron beam*, Journal of Noncrystalline Solids 287 (2001) Nr. 1-3, S. 197-200.
- 245) C. Vogt, G.L. Klunder, *Separation of metal ions by capillary electrophoresis - diversity, advantages, and drawbacks of detection methods*, Fresenius Journal of Analytical Chemistry 370 (2001) Nr. 4, S. 316-331.
- 246) S. Waidmann, M. Knupfer, J. Fink, B. Kleinsorge, J. Robertson, *Electronic structure studies of undoped and nitrogen-doped tetrahedral amorphous carbon using high-resolution electron energy-loss spectroscopy*, Journal of Applied Physics 89 (2001) Nr. 7, S. 3783-3792.
- 247) T. Walter, K.-H. Mueller, K. Doerr, M. Sahana, K. Nenkov, K. Brand, L. Schultz, *Magnetoresistance of heteroepitaxial La_{0.7}Sr_{0.3}MnO₃/SrTiO₃ multilayers*, Sensors and Actuators A 91 (2001) Nr. 1-2, S. 184-187.
- 248) W.H. Wang, R.J. Wang, G.J. Fan, J. Eckert, *Formation and properties of Zr-(Ti,Nb)-Cu-Ni-Al bulk metallic glasses*, Materials Transactions 42 (2001) Nr. 4, S. 587-591.
- 249) H. Warlimont, *Amorphous metals driving materials and process innovations*, Materials Science and Engineering A 304-306 (2001), S. 61-67.
- 250) F. Weigand, E. Goering, J. Geissler, M. Justen, K. Doerr, K. Ruck, G. Schuetz, *XMCD study of the Ruddlesden-Popper phase La_{1.2}Nd_{0.2}Sr_{1.6}Mn₂O₇*, Journal of Synchrotron Radiation 8 (2001), S. 431-433.
- 251) V. Weihnacht, W. Brueckner, *Dislocation accumulation and strengthening in Cu thin films*, Acta Materialia 49 (2001) Nr. 13, S. 2365-2372.
- 252) H. Wendrock, J. Richter, A. Gueth, *Nachweis kleiner Restaustenitgebiete in TRIP-Stahl durch ortsaufgelöste Elektronen-Rueckstreuung*, Praktische Metallographie 38 (2001) Nr. 6, S. 314-324.
- 253) Ch. Wenger, A. Gladun, G. Krabbes, G. Fuchs, *Magnetothermal instabilities in cylindrical melt-textured Y-Ba-Cu-O*, IEEE Transactions on Applied Superconductivity 11 (2001) Nr. 1, S. 3533-3536.
- 254) K. Wetzig, J. Thomas, *Nanoanalytical investigations of functional materials by transmission electron microscopy*, Praktische Metallographie 38 (2001) Nr. 11, S. 627-636.
- 255) K. Wetzig, J. Thomas, H.-D. Bauer, *Analytical TEM for the investigation of thin functional layers*, Applied Surface Science 179 (2001) Nr. 1-4, S. 143-149.
- 256) K. Wetzig, J. Thomas, H.-D. Bauer, M. Hecker, A. John, *TEM-EELS investigations of nanoscale multilayers in the linescan mode*, Journal of Electron Spectroscopy and Related Phenomena 114-116 (2001), S. 1019-1023.
- 257) S.C. Wimbush, K. Haese, L. Schultz, B. Holzapfel, *Epitaxial alpha-axis and c-axis oriented growth of YNi₂B₂C thin films*, Journal of Physics: Condensed Matter 13 (2001) Nr. 18, S. L355-L360.
- 258) J. Yang, A. Handstein, A. Kirchner, O., Mueller, K.-H. Gutfleisch, *Magnetic properties of melt-spun (Nd, Dy)₂Fe₁₄(B, C)*, Journal of Alloys and Compounds 316 (2001) Nr. 1-2, S. 290-295.
- 260) J.B. Yang, K. Kamaraju, W.B. Yelon, W.J. James, Q. Cai, A. Bollero, *Magnetic properties of the MnBi intermetallic compound*, Applied Physics Letters 79 (2001) Nr. 12, S. 1846-1848.
- 261) J.B. Yang, A. Kirchner, O. Gutfleisch, A. Handstein, D. Eckert, K.-H. Mueller, *Hard magnetic properties of melt-spun R-Fe carbides*, Journal of Magnetism and Magnetic Materials 231 (2001) Nr. 1, S. L4-L8.
- 262) M. Zinkevich, N. Mattern, A. Handstein, B. Gebel, I. Baecher, *Homogeneity range, crystal structure and magnetic properties of the ThMn₁₂-type compounds Gd_{1-n}Ndn(Fe, Mo)₁₂ (n=0-1.0)*, Journal of Alloys and Compounds 316 (2001) Nr. 1-2, S. 299-308.
- 263) M. Zinkevich, N. Mattern, H.J. Seifert, *Thermodynamic assessment of Gd-Zr and Gd-Mo systems*, Journal of Phase Equilibria 22 (2001) Nr. 1, S. 43-50.

Contributions to Conference Proceedings and Monographs

- 1) L. Alvarez, P. Georgi, T. Schwieger, L. Dunsch, T. Pichler, M. Knupfer, M.S. Golden, J. Fink, P. Bressler, M. Mast, *Electronic structure of pristine and intercalated Sc₃N@C₈₀ from photoemission*, XVth International Winterschool/Euroconference, Kirchberg/Oesterreich, 3.-10.3.01, in: „Electronic Properties of Molecular Nanostructures“, H. Kuzmany, J. Fink, M. Mehring, S. Roth (ed.), AIP Conference Proceedings, **591**, 114-117 (2001).
- 2) K. Bartsch, H. Liepack, A. Leonhardt, *Relationships between composition, structure and properties of new PACVD hard materials coatings*, THERMEC 2000, Las Vegas/USA, 4.-8.12.00, in: Proceedings of the International Conference on Processing and Manufacturing of Advanced Materials, CDROM, Section A7 (6 p.); Special Issue: Journal of Materials Processing Technology, Eds. T.Chandra, K.Higashi, C.Suryanarayana, C.Tome. Elsevier Science, **117/3** (2001).
- 3) S.V. Biryukov, *Fast variation method for elastic strip calculation*, 2000 IEEE Ultrasonics Symposium, San Juan/Puerto Rico, 22.-25.10.00, in: Proceedings Ultrasonics Symposium, **vol. 1**, 155-158 (2000).
- 4) H. Bitterlich, W. Loeser, G. Behr, S.-L. Drechsler, K. Nenkov, G. Fuchs, K.-H. Mueller, L. Schultz, *Anisotropic upper critical field in TbxY_{1-x}Ni₂B₂C single crystals*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H.Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 281-286 (2001).

- 5) S. Borisenko, M.S. Golden, T. Pichler, S. Legner, C. Duerr, M. Knupfer, J. Fink, *High resolution Fermi surface mapping of Pb-doped Bi-2212*, in: „Open Problems in Strongly Correlated Electron Systems“, ed. by Bonca, J. et al., Kluwer Academic Publishers, 43-50 (2001).
- 6) S. Daebritz, V. Hoffmann, G. Sadowski, D. Bergner, *Investigations of phase growth in the copper-tin system*, in: Defect and Diffusion Forum, Sitec Publications, Switzerland, **194-199**, 1575-1580 (2001).
- 7) B.S.S. Daniel, M. Heilmaier, A. Reger-Leonhard, J. Eckert, L. Schultz, *On the high temperature creep and relaxation behaviour of Zr-based bulk metallic glasses*, Symposium der Materials Research Society, Boston/USA, 27.-30.11.00, in: „Supercooled liquid, bulk glassy and nanocrystalline states of alloys“, ed. A. Inoue, A.R. Yavari, W.L. Johnson, R.H. Dauskardt: Symposium Proceedings, **644**, L10.7.1-6 (2001).
- 8) A.N. Darinskii, M. Weihnacht, *Fast acoustic modes guided by multilayered solid structures*, 2000 IEEE Ultrasonics Symposium, San Juan/Puerto Rico, 22.-25.10.00, in: Proceedings Ultrasonics Symposium, **vol. 1**, 195-198 (2000).
- 9) G. David, S. Roth, J. Eckert, L. Schultz, *Extraction of boron Fe80B20 ribbons by annealing under hydrogen flow*, THERMEC 2000, Las Vegas/USA, 4.-8.12.00, in: Proceedings of the International Conference on Processing and Manufacturing of Advanced Materials: CDROM, Section D3 (6 p.); Special Issue: Journal of Materials Processing Technology, Eds. T.Chandra, K.Higashi, C.Suryanarayana, C.Tome, Elsevier Science, **117/3** (2001).
- 10) S.-L. Drechsler, H. Rosner, J. Malek, H. Eschrig, *Electronic and magnetic properties of cuprate chains and related materials*, NATO Advanced Study Institute, Albena/Bulgarien, 13.-26.9.98, in: High-Tc Superconductors and Related Materials: Material Science, Fundamental Properties, and Some Future Electronic Applications, S.-L.Drechsler, T.Mishonov (eds), NATO Science Series 3, High Technology, Kluwer Academic Publishers, **86**, 81-134 (2001).
- 11) S.-L. Drechsler, H. Rosner, S. Shulga, I. Opahle, H. Eschrig, *Aspects of superconductivity in borocarbides: Theoretical view of the electronic structure - a comparison with cuprates*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H.Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 403-412 (2001).
- 12) S.-L. Drechsler, H. Rosner, S.V. Shulga, H. Eschrig, *Superconducting transition metal borocarbides*, NATO Advanced Study Institute, Albena/Bulgarien, 13.-26.9.98, in: High-Tc Superconductors and Related Materials: Material Science, Fundamental Properties, and Some Future Electronic Applications, S.-L.Drechsler, T.Mishonov (eds), NATO Science Series 3, High Technology, Kluwer Academic Publishers, **86**, 167-184 (2001).
- 13) L. Dunsch, P. Janda, T. Krieg, P. Georgi, M. Gembicka, S. Oswald, N. Mattern, *Elektrochemische Nanostrukturierung von Kohlenstoffschichten*, Jahrestagung der GDCh, Ulm, 28.9.00, in: „Elektrochemische Verfahren fuer neue Technologien“ ed. D.M.Kolb u.a., Monographie/GDCh, **21**, 71 (2001).
- 14) L. Enge, D. Abramsohn, A. Gaupp, H.-Ch. Mertins, F. Schaefer, P.M. Oppeneer, *Determination of the degree of linear and circular polarisation by soft X-ray resonant magnetic scattering*, in: Berliner Elektromagnetspeicherring-Gesellschaft fuer Synchrotronstrahlung BESSY, Annual Report 2000, 311-312 (2001).
- 15) J. Fink, M.S. Golden, M. Knupfer, T. Boeske, S. Haffner, R. Neudert, S. Atzkern, C. Duerr, Z. Hu, S. Legner, T. Pichler, H. Rosner, S.-L. Drechsler, R. Hayn, J. Malek, H. Eschrig, K. Ruck, G. Krabbes, *The electronic structure of high-Tc superconductors: Introduction and recent studies of model compounds*, NATO Advanced Study Institute, Albena/Bulgarien, 13.-26.9.98, in: High-Tc Superconductors and Related Materials: Material Science, Fundamental Properties, and Some Future Electronic Applications, S.-L.Drechsler, T.Mishonov (eds), NATO Science Series 3, High Technology, Kluwer Academic Publishers, **86**, 1-38 (2001).
- 16) J. Fink, X. Liu, H. Peisert, T. Pichler, M. Knupfer, M.S. Golden, D.M. Walters, H. Kataura, *Electronic structure studies of carbon nanotubes: aligned, doped and filled*, AIP Symposium, Kamakura/Japan, 15.-18.1.01, in: „Nanonetwork Materials: Fullerenes, Nanotubes, and Related Systems“ ed. S. Saito et al., AIP Conference Proceedings, **590**, 87-94 (2001).
- 17) J.H. Fink, P. Lambin, *Electron spectroscopy studies of carbon nanotubes*, in: „Carbon Nanotubes“ ed. by Dresselhaus, M.S.; Avouris, Ph., Topics in Applied Physics, Springer-Verlag Berlin, **80**, 247-272 (2001).
- 18) J. Freudenberger, G. Fuchs, K. Nenkov, S.-L. Drechsler, K.-H. Mueller, L. Schultz, A. Kreyssig, M. Loewenhaupt, *Impurity scattering in rare-earth nickel borocarbides*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H.Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 275-280 (2001).
- 19) G. Fuchs, K.-H. Mueller, J. Freudenberger, K. Nenkov, S.-L. Drechsler, H. Rosner, S.V. Shulga, A. Gladun, D. Lipp, T. Cichorek, P. Gegenwart, *Influence of disorder on superconductivity in rare-earth nickel borocarbides*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H.Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 243-254 (2001).
- 20) B. Gebel, M. Kubis, U.K. Roessler, K.-H. Mueller, *Anisotropic bonded Sm2.3Fe16.8Zr0.2Ny magnets prepared by milling of as cast material*, EMMA-2000, Kyiv/Ukraine, 7.-10.7.00, in: „European Magnetic Materials and Applications“, ed. V.G.Baryakhtar, Materials Science Forum, **373-376**, 317-320 (2001).

- 21) A. Gebert, U. Wolff, M. Savyak, J. Eckert, L. Schultz, *Stability and electrochemical properties of Mg₆₅Y₁₀Cu₂₅ metallic glass*, 6th International Symposium on Chemical and Electrochemical Reactivity of Amorphous and Nanocrystalline Materials, Quebec/Kanada, 7.-9.2.01, in: Proceedings: Materials Science Forum, ed. R. Schulz (special issue: Journal of Metastable and Nanocrystalline Materials vol. 11, 2001), **377**, 9-14 (2001).
- 22) A. Gorbunov, A. Graff, O. Jost, W. Pompe, *On the mechanism of carbon nanotubes synthesis by laser ablation*, in: Nonresonant Laser-Matter Interaction (NLMI-10), Proceedings of SPIE, The International Society for Optical Engineering, **4423**, 212-217 (2001).
- 23) K. Haese, S.C. Wimbush, D. Eckert, S. Paschen, B. Holzapfel, L. Schultz, *Structural and superconducting properties of RNi₂B₂C thin films (R-Y, Ho)*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H. Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 363-368 (2001).
- 24) M. Heber, S.L. Molodtsov, Y. Kucherenko, R. Hayn, J.J. Hinarejos, J. Boysen, *Hybridization effects in the photoemission spectra of Ce and Pr systems*, in: Berliner Elektronenspeicherring-Gesellschaft fuer Synchrotronstrahlung BESSY, Annual Report 2000, 351-352 (2001).
- 25) M. Hecker, U. Muschiol, C.M. Schneider, H.-C. Mertins, D. Abramssohn, F. Schaefers, *X-ray resonant scattering from Co/Cu multilayers at the Co L₃ edge*, in: Berliner Elektronenspeicherring-Gesellschaft fuer Synchrotronstrahlung BESSY, Annual Report 2000, 189-191 (2001).
- 26) M. Hecker, L. van Loyen, D. Tietjen, N. Schell, C.M. Schneider, *Influence of annealing on structural properties of metallic multilayers*, 7th European Powder Diffraction Conference, Barcelona/Spain, 20.-23.5.00, in: Materials Science Forum, Trans Tech Publications, part 2, **378-381**, 370-375 (2001).
- 27) M. Heilmaier, *Deformation behavior of Zr-based metallic glasses*, THERMEC 2000, Las Vegas/USA, 4.-8.12.00, in: Proceedings of the International Conference on Processing and Manufacturing of Advanced Materials: CDROM, Section D3 (8 p.); Special Issue: Journal of Materials Processing Technology, Eds. T.Chandra, K.Higashi, C.Suryanarayana, C.Tome, Elsevier Science, **117/3** (2001).
- 28) A. Heinrich, *Semiconducting silicides - thermoelectric properties and applications*, 16th Course of the International School of Solid State Physics, Erice/Italien, 5.-16.6.99, in: Proceedings „Silicides - Fundamentals and Applications“, Miglio, L.; d'Heurle, F. (ed.), World Scientific, Singapore, 126-137 (2000).
- 29) Z. Hu, L. Alvarez, T. Schwieger, M. Knupfer, M.S. Golden, J. Fink, Th. Schmidt, B. Richter, Ch. Jung, C. Hellwig, *XAS study of the valence electron distribution in SrMn_{1-x}Ru_xO₃*, in: Berliner Elektronenspeicherring-Gesellschaft fuer Synchrotronstrahlung BESSY, Annual Report 2000, 137-138 (2001).
- 30) P. Joehnk, O. Moravcik, G.F. Michalconok, *Upravenie naučno-technickimi grantami v Germanii na primere informacionnoj sistemy PROMAN-W*, Internationale Wissenschaftlich-Technische Konferenz „Informacionnye tehnologii v innovacionnyh proektach“, Izhevsk/Russland, 23.-24.5.01, in: Tagungsband Teil 1, 19-21 (2001).
- 31) O. Jost, A.A. Gorbunov, L.C. Ciacchi, W. Pompe, X. Liu, T. Pichler, L. Dunsch, M.S. Golden, J. Fink, *Optical absorption study of factors influencing the carbon nanotube nucleation process*, XVth International Winterschool/Euroconference, Kirchberg/Oesterreich, 3.-10.3.01, in: „Electronic Properties of Molecular Nanostructures“, H. Kuzmany, J. Fink, M. Mehring, S. Roth (ed.), AIP Conference Proceedings, **591**, 341-344 (2001).
- 32) L. Kavan, P. Rapta, M.J. Bronikowski, P. Willis, R.E. Smalley, L. Dunsch, *Tuning of electronic structure of single-walled carbon nanotubes: In-situ Raman and Vis-NIR spectroelectrochemical study*, XVth International Winterschool/Euroconference, Kirchberg/Oesterreich, 3.-10.3.01, in: „Electronic Properties of Molecular Nanostructures“, H. Kuzmany, J. Fink, M. Mehring, S. Roth (ed.), AIP Conference Proceedings, **591**, 329-332 (2001).
- 33) M. Krause, H. Kuzmany, P. Georgi, L. Dunsch, *Spectroscopic evidence for a trimetal nitride-C₈₀ bond in M₃N@C₈₀ (M=Sc, Y) fullerenes*, XVth International Winterschool/Euroconference, Kirchberg/Oesterreich, 3.-10.3.01, in: „Electronic Properties of Molecular Nanostructures“, H. Kuzmany, J. Fink, M. Mehring, S. Roth (ed.) AIP Conference Proceedings, **591**, 109-113 (2001).
- 34) A. Kreyssig, A. Schneidewind, M. Loewenhaupt, C. Ritter, J. Freudenberger, G. Fuchs, K.-H. Mueller, *Magnetoelastic effects in rare earth nickel borocarbides*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H. Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 181-186 (2001).
- 35) U. Kuehn, J. Eckert, N. Mattern, L. Schultz, *Glass and quasicrystal formation in a Zr-based multicomponent alloy*, Symposium der Materials Research Society, Boston/USA, 27.-30.11.00, in: „Supercooled liquid, bulk glassy and nanocrystalline states of alloys“, ed. A. Inoue, A.R. Yavari, W.L. Johnson, R.H. Dauskardt: Symposium Proceedings, **644**, L12.8.1-6 (2001).
- 36) G. Kumar, J. Eckert, S. Roth, W. Loeser, L. Schultz, S. Ram, *Formation of cluster structure and phase separation in cast Nd-Fe-Co-Al alloys*, 22nd Risø International Symposium on Materials Science, Roskilde/Daenemark, 3.-7.9.01, in: „Science of Metastable and Nanocrystalline Alloys“, ed. A.R. Dinesen u.a., Risø National Laboratory, 307-312 (2001).

- 37) G. Kumar, J. Eckert, L.Q. Xing, A. Gueth, S. Roth, W. Loeser, S. Ram, *Effect of preparation on glass formation and magnetic properties of Nd-Fe-Co-Al-B alloys*, Symposium der Materials Research Society, Boston/USA, 27.-30.11.00, in: „Supercooled liquid, bulk glassy and nanocrystalline states of alloys“, ed. A. Inoue, A.R. Yavari, W.L. Johnson, R.H. Dauskardt: Symposium Proceedings, **644**, L12.14.1-6 (2001).
- 38) H. Kuzmany, M. Hulman, W. Plank, A. Grueneis, Ch. Kramberger, H. Peterlik, T. Pichler, H. Kataura, Y. Achiba, *Quantum oscillations for the spectral moments of Raman spectra from SWCNT*, AIP Symposium, Kamakura/Japan, 15.-18.1.01, in: „Nanonetwork Materials: Fullerenes, Nanotubes, and Related Systems“ ed. S.Saito et al., AIP Conference Proceedings, **590**, 81-86 (2001).
- 39) M. Leghissa, M. Oomen, J. Rieger, B. Fischer, W. Haessler, *AC properties of high-temperature superconductors*, Meeting des AK „Festkoerperphysik“ d. DPG, Regensburg, 22.-26.3.00, in: Advances in Solid State Physics, Kramer, B. (ed.), **40**, 753-768 (2000).
- 40) S. Legner, S.V. Borisenko, M. Knupfer, M.S. Golden, J. Fink, L. Forr: Advances in Solid State Physics, Kramer, B. (ed.) *Temperature dependent, high resolution ARPES study of the transition from the superconducting to the normal state in (Pb,Bi)2Sr2CaCu2O8+delta*, in: Berliner Elektronenspeicherring-Gesellschaft fuer Synchrotronstrahlung BESSY, Annual Report 2000, 142-144 (2001).
- 41) D. Lipp, M. Schneider, A. Gladun, S.-L. Drechsler, J. Freudenberger, G. Fuchs, K. Nenkov, K.-H. Mueller, T. Cichorek, P. Gegenwart, *Specific heat of YxLu1-xNi2B2C in the mixed state*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H.Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 89-94 (2001).
- 42) X. Liu, T. Pichler, M. Knupfer, M.S. Golden, J. Fink, H. Kataura, Y. Achiba, D.M. Walters, K. Bradley, B.J. Bronikowski, R.E. Smalley, *Electronic structure and optical properties of single wall carbon nanotubes and C60 peapods*, XVth International Winterschool/Euroconference, Kirchberg/Oesterreich, 3.-10.3.01, in: „Electronic Properties of Molecular Nanostructures“, H. Kuzmany, J. Fink, M. Mehring, S. Roth (ed.), AIP Conference Proceedings, **591**, 266-272 (2001).
- 43) W. Loeser, R. Hermann, T. Volkmann, D.M. Herlach, A. Mullis, L. Granasy, B. Vinet, D.M. Matson, *Study and modelling of nucleation and phase selection phenomena in undercooled melts: Application to magnetic materials of industrial relevance*, First International Symposium on Microgravity Research & Applications in Physical Sciences & Biotechnology, Sorrento/Italien, 10.-15.9.00, in: Proceedings, **ESA SP-454**, 663-668 (2001).
- 44) J.W. Lynn, P.C. Canfield, G. Hilscher, K.-H. Mueller, V.N. Narozhnyi, *Progress in borocarbide research*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H.Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 431-434 (2001).
- 45) I. Marenne, P. Rudolf, J. Schiessling, P.A. Bruehwiler, C. Silien, J. Auerhammer, T. Pichler, M.S. Golden, N. Tagmatarchis, K. Prassides, *Investigations of thick films of C59N doped with potassium*, XVth International Winterschool/Euroconference, Kirchberg/Oesterreich, 3.-10.3.01, in: „Electronic Properties of Molecular Nanostructures“, H. Kuzmany, J. Fink, M.Mehring, S.Roth (ed.) AIP Conference Proceedings, **591**, 20-24 (2001).
- 46) G. Martin, D. Chen, *Diffraction analysis of slanted finger interdigital transducers*, 2000 IEEE Ultrasonics Symposium, San Juan/Puerto Rico, 22.-25.10.00, in: Proceedings Ultrasonics Symposium, **vol. 1**, 167-171 (2000).
- 47) N. Mattern, U. Kuehn, J. Eckert, *Structure formation and crystallization of Zr62-xTixAl10Cu20Ni8 bulk metallic glasses*, 22nd Risö International Symposium on Materials Science, Roskilde/Daenemark, 3.-7.9.01, in: „Science of Metastable and Nanocrystalline Alloys“, ed. A.R.Dinesen u.a., Risö National Laboratory, 323-328 (2001).
- 48) N. Mattern, J. Neufeind, U. Kuehn, M. Zinkevitch, H. Hermann, J. Eckert, *Short-range order and crystallization behavior of Zr-based bulk amorphous alloys*, THERMEC 2000, Las Vegas/USA, 4.-8.12.00, in: Proceedings of the International Conference on Processing and Manufacturing of Advanced Materials; CDROM, Section D3 (6 p.), Special Issue: Journal of Materials Processing Technology, Eds. T.Chandra, K.Higashi, C.Suryanarayana, C.Tome, Elsevier Science, **117/3** (2001).
- 49) N. Mattern, J. Sakowski, U. Kuehn, H. Herms, U. Precht, J. Neufeind, J. Eckert, *Structure of glassy, supercooled liquid and liquid Zr52Ti5Cu18Ni15Al10*, in: Jahresbericht des HASYLAB am Deutschen Elektronen-Synchrotron DESY, Hamburg, 581-582 (2001).
- 50) N. Mattern, B. Schuepp, C. Baehz, *Crystal structure and phase transformation of Cu3Si*, in: Jahresbericht des HASYLAB am Deutschen Elektronen-Synchrotron DESY, Hamburg, 461-462 (2001).
- 51) N. Mattern, M. Zinkevich, H. Ehrenberg, M. Knapp, A. Handstein, *Crystal structure and magnetic properties of Gd1+nFe12-x-yMox y solid solution*, 7th European Powder Diffraction Conference, Barcelona/Spainien, 20.-23.5.00, in: Materials Science Forum, Trans Tech Publications, part 2, **378-381**, 402-407 (2001).
- 52) S.L. Molodtsov, S.V. Halilov, V.D.P. Servedio, W. Schneider, S. Danzenbaecher, J.J. Hinarejos, M. Richter, C. Laubschat, *Cooper minima in the photoemission spectra of solids*, in: Berliner Elektronenspeicherring-Gesellschaft fuer Synchrotronstrahlung BESSY, Annual Report 2000, 357-358 (2001).

- 53) K.-H. Mueller, *Magnetic properties of low-dimensional cuprates*, NATO Advanced Study Institute, Albena/Bulgarien, 13.-26.9.98, in: High-Tc Superconductors and Related Materials: Material Science, Fundamental Properties, and Some Future Electronic Applications, S.-L.Drechsler, T.Mishonov (eds), NATO Science Series 3, High Technology, Kluwer Academic Publishers, **86**, 51-80 (2001).
- 54) K.-H. Mueller, K. Doerr, J. Freudenberger, G. Fuchs, A. Handstein, A. Kreyssig, M. Loewenhaupt, K. Nenkov, M. Wolf, *Coexistence of superconductivity and magnetism in borocarbides*, NATO Advanced Study Institute, Albena/Bulgarien, 13.-26.9.98, in: High-Tc Superconductors and Related Materials: Material Science, Fundamental Properties, and Some Future Electronic Applications, S.-L.Drechsler, T.Mishonov (eds), NATO Science Series 3, High Technology, Kluwer Academic Publishers, **86**, 145-166 (2001).
- 55) K.-H. Mueller, J. Freudenberger, G. Fuchs, K. Nenkov, A. Kreyssig, M. Loewenhaupt, *Magnetic order and superconductivity in Ho_{1-x}Lu(Y)_xNi₂B₂C*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H. Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 255-264 (2001).
- 56) V.N. Narozhnyi, G. Fuchs, J. Freudenberger, K.A. Nenkov, D. Eckert, A. Teresiak, A. Czopnik, K.-H. Mueller, *Anomalous behavior of Pr-based borocarbides: comparison with cuprates*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H. Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 171-180 (2001).
- 57) V. Neu, L. Schultz, *Mechanically alloyed rare earth magnets*, in: Encyclopedia of Materials: Science and Technology, ed. K.-H.J. Buschow, R.W. Cahn, M.C. Flemings, B. Ilshner, E.J. Kramer, S. Mahajan, Elsevier Science, 5119-5122 (2001).
- 58) R. Niewa, Z. Hu, C. Grazioli, U. Roessler, M.S. Golden, M. Knupfer, J. Fink, F.M.F. de Groot, *XAS spectra of Ce₂MnN₃ at the Ce-M_{4,5}, Ce-L₃, Mn-L_{2,3} and N-K thresholds*, in: Jahresbericht des HASYLAB am Deutschen Elektronen-Synchrotron DESY, Hamburg, 341-342 (2001).
- 59) R. Niewa, M. Schmidt, R. Giedigkeit, Z. Hu, U. Schwarz, W. Schnelle, R. Cardoso, M. Hanfland, K. Klementiev, Yu. Grin, *Pressure-induced oxidation state change of yttrium in YbGa*, in: Jahresbericht des HASYLAB am Deutschen Elektronen-Synchrotron DESY, Hamburg, 299-300 (2001).
- 60) P.M. Oppeneer, *Magneto-optical Kerr spectra*, in: Handbook of Magnetic Materials, Vol. 13, ed. by K.H.J. Buschow, Elsevier, **chapter 3**, 229-422 (2001).
- 61) H. Peisert, T. Schwieger, J.M. Auerhammer, M. Knupfer, M.S. Golden, J. Fink, P.R. Bressler, M. Mast, *Highly ordered films of copper phthalocyanine on technical substrates*, in: Berliner Elektronenspeicherring-Gesellschaft fuer Synchrotronstrahlung BESSY, Annual Report 2000, 247-248 (2001).
- 62) T. Pichler, H. Kuzmany, H. Kataura, Y. Achiba, *Photoselective resonance Raman scattering in C₆₀ peapods*, XVth International Winterschool/Euroconference, Kirchberg/Oesterreich, 3.-10.3.01, in: „Electronic Properties of Molecular Nanostructures“, H. Kuzmany, J. Fink, M. Mehring, S. Roth (ed.), AIP Conference Proceedings, **591**, 261-265 (2001).
- 63) W. Pitschke, D. Hofman, A.T. Burkov, J. Schumann, A. Heinrich, *Formation of nanocrystalline Re-Si thin film composites*, 7th European Powder Diffraction Conference, Barcelona/Spainien, 20.-23.5.00, in: Materials Science Forum, Trans Tech Publications, Part 2, **378-381**, 352-357 (2001).
- 64) W. Plank, T. Pichler, S. Baes-Fischlmair, M. Krause, H. Kuzmany, N. Tagmatarchis, H. Shinohara, *Thermal stability of the heterofullerene (C₅₉N)_X for X= C₅₉N, H*, XVth International Winterschool/Euroconference, Kirchberg/Oesterreich, 3.-10.01, in: „Electronic Properties of Molecular Nanostructures“, H. Kuzmany, J. Fink, M. Mehring, S. Roth (ed.), AIP Conference Proceedings, **591**, 16-19 (2001).
- 65) W. Plank, T. Pichler, S. Baes-Fischlmair, M. Krause, H. Kuzmany, N. Tagmatarchis, H. Shinohara, *Transition of the heterofullerene (C₅₉N)_X to the monomeric phase of C₅₉N*, AIP Symposium, Kamakura/Japan, 15.-18.1.01, in: „Nanonetwork Materials: Fullerenes, Nanotubes, and Related Systems“ ed. S. Saito et al., AIP Conference Proceedings, **590**, 417-420 (2001).
- 66) V.P. Plessky, S.V. Biryukov, J. Koskela, *Harmonic admittance and dispersion equations - the theorem*, 2000 IEEE Ultrasonics Symposium, San Juan/Puerto Rico, 22.-25.10.00, in: Proceedings Ultrasonics Symposium, **vol. 1**, 159-162 (2000).
- 67) M. Richter, *Density functional theory applied to 4f and 5f elements and metallic compounds*, in: Handbook of Magnetic Materials, Vol.13, ed. by K.H.J. Buschow, Elsevier, **chapter 2**, 87-228 (2001).
- 68) M. Ritschel, K. Bartsch, A. Leonhardt, A. Graff, C. Taeschner, J. Fink, *Synthesis and characterization of carbon nanotubes*, XVth International Winterschool/Euroconference, Kirchberg/Oesterreich, 3.-10.3.01, in: „Electronic Properties of Molecular Nanostructures“, H. Kuzmany, J. Fink, M. Mehring, S. Roth (ed.), AIP Conference Proceedings, **591**, 163-166 (2001).
- 69) U.K. Roessler, *Monte Carlo simulations for models of dipolarly interacting fine magnetic particles*, EMMA-2000, Kyiv/Ukraine, 7.-10.7.00, in: „European Magnetic Materials and Applications“, ed. V.G.Baryakhtar, Materials Science Forum, **373-376**, 193-196 (2001).
- 70) H. Rosner, S.-L. Drechsler, K. Koepf, I. Opahle, H. Eschrig, *Electronic structure and related properties of rare earth transition metal borocarbides - LDA bandstructure analysis*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H. Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 71-82 (2001).

- 71) M. Rotter, C. Sierks, M. Loewenhaupt, J. Freudenberger, H. Schober, *Crystal field effects in borocarbides studied by inelastic neutron scattering*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H.Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 137-154 (2001).
- 72) J. Sakowski, G. Herms, N. Mattern, U. Precht, *Diffraction studies of time-dependent changes in the supercooled liquid state of a metallic glass*, in: Jahresbericht des HASYLAB am Deutschen Elektronen-Synchrotron DESY, Hamburg, 957-958 (2001).
- 73) R. Schaefer, *Domains in soft and hard magnets*, in: Encyclopedia of Materials Science and Technology, ed. by K.H. Buschow, R.W. Cahn, M.C. Flemings, B. Ilshner, E.J. Kramer, S. Mahajan, Elsevier Science, Oxford, 13 S. (2001).
- 74) R. Schaefer, *Kerr microscopy*, in: Encyclopedia of Materials Science and Technology, ed. by K.H. Buschow, R.W. Cahn, M.C. Flemings, B. Ilshner, E.J. Kramer, S. Mahajan, Elsevier Science, Oxford, 15 S. (2001).
- 75) R. Schaefer, *Magnetische Mikrostrukturen*, in: „Magnetische Schichtsysteme“, Schriftenreihe des Forschungszentrums Juelich: Materie und Material, **2**, B6.1-25 (1999).
- 76) H. Schmidt, K. Franke, F. Hoeller, G. Martin, M. Ross-Messemer, M. Weihnacht, *UV reflective modulation using SAWs with high amplitude*, 2000 IEEE Ultrasonics Symposium, San Juan/Puerto Rico, 22.-25.10.00, in: Proceedings Ultrasonics Symposium, **vol. 1**, 655-658 (2000).
- 77) B. Schuepp, N. Mattern, W. Gruner, B. Holzapfel, C. Baetz, *High temperature diffractometry on BPSCCO-precursor*, in: Jahresbericht des HASYLAB am Deutschen Elektronen-Synchrotron DESY, Hamburg, 489-490 (2001).
- 78) B. Schuepp, N. Mattern, H.-L. Keller, C. Baetz, *X-ray diffraction studies on Cs₂PdCl₄*, in: Jahresbericht des HASYLAB am Deutschen Elektronen-Synchrotron DESY, Hamburg, 607-608 (2001).
- 79) B. Schuepp, N. Mattern, H.-L. Keller, C. Baetz, *Phase transition and thermal expansion on Cs₂PdCl₄*, in: Jahresbericht des HASYLAB am Deutschen Elektronen-Synchrotron DESY, Hamburg, 531-532 (2001).
- 80) F. Schurack, J. Eckert, L. Schultz, *Processing and mechanical properties of quasicrystal-reinforced Al alloys*, Symposium „Quasicrystals - Preparation, Properties and Applications“, Boston/USA, 27.-30.11.00, in: MRS Symposium Proceedings, Belin-Ferré, E.; Thiel, P.A.Tsai, A.-P.; Urban, K.(ed), **643**, K9.11.1-6 (2001).
- 81) S.V. Shulga, S.-L. Drechsler, *Eliashberg analysis of the physical properties of borocarbides*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proceedings: NATO Science Series, subseries II; K.-H.Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, **14**, 393-402 (2001).
- 82) S.V. Shulga, S.-L. Drechsler, *BCS analysis of the physical properties of nonmagnetic borocarbides*, NATO Advanced Study Institute, Albena/Bulgarien, 13.-26.9.98, in: High-Tc Superconductors and Related Materials: Material Science, Fundamental Properties, and Some Future Electronic Applications, S.-L.Drechsler, T.Mishonov (eds), NATO Science Series 3, High Technology, Kluwer Academic Publishers, **86**, 185-192 (2001).
- 83) B. Vinet, C. Berne, P.J. Desré, H.J. Fecht, H. Fredriksson, L. Gránásy, A.L. Greer, R. Hermann, W., Magnusson, L. Loeser, A. Pasturel, *Study and modelling of nucleation and phase selection phenomena: Application to refractory metals and alloys from drop-tube processing*, First International Symposium on Microgravity Research & Applications in Physical Sciences & Biotechnology, Sorrento/Italien, 10.-15.9.00, in: Proceedings, **ESA SP-454**, 1123-1130 (2001).
- 84) H. von Lips, Z. Hu, C. Grazioli, G. Behr, M. Knupfer, M.S. Golden, J. Fink, H. Rosner, U. Jaenicke-Roessler, G. Kaindl, *Polarization-dependent X-ray absorption spectroscopy on single crystal YNi₂B₂C superconductors*, NATO Advanced Study Institute, Albena/Bulgarien, 13.-26.9.98, in: High-Tc Superconductors and Related Materials: Material Science, Fundamental Properties, and Some Future Electronic Applications, S.-L.Drechsler, T.Mishonov (eds), NATO Science Series 3, High Technology, Kluwer Academic Publishers, **86**, 193-198 (2001).
- 85) F. Weigand, J. Geissler, E. Goering, K. Doerr, G., Ruck, K. Krabbes, G. Schuetz, *XMCD study of the Ruddlesden-Popper-Phase La_{1,2}Sr_{1,8}Mn_{2-x}Ru_xO₇*, in: Jahresbericht des HASYLAB am Deutschen Elektronen-Synchrotron DESY, Hamburg, 343-344 (2001).
- 86) U. Wolff, A. Gebert, M. Savyak, J. Eckert, L. Schultz, *Stability and electrochemical properties of Mg₆₅Y₁₀Cu₂₅ metallic glass*, 22nd Risö International Symposium on Materials Science, Roskilde/Daenemark, 3.-7.9.01, in: „Science of Metastable and Nanocrystalline Alloys“, ed. A.R.Dinesen u.a., Risö National Laboratory, 441-447 (2001).
- 87) U. Wolff, F. Schneider, K. Mummert, *Electrochemical properties of passive layers on Fe-Si alloys*, 8th International Symposium on Passivity of Metals and Semiconductors, Jasper, Alberta/Kanada, 9.-15.5.1999, in: „Passivity of Metals and Semiconductors“ by M.B.Ives, J.L.Luo, J.R.Rodda (ed.), The Electrochemical Society, Corrosion Division, **99-42**, 194-200 (2001).

Invited Talks

- 1) H.-D. Bauer, J. Thomas, *Neue Moeglichkeiten der analytischen TEM am IFW Dresden*, Institut IAPD, Fachrichtung Physik, TU Dresden, 10.7.01 (2001).
- 2) H.-D. Bauer, J. Thomas, *Das TEM TechniF30: Hochaufgeloeste Abbildung und/oder Analytik?*, Kolloquium im TU-Institut IKFP, Dresden, 16.10.01 (2001).
- 3) G. Behr, *Phase diagram investigation in high-melting rare earth transition metal compound forming systems*, High Temperature User Club, Lyon/Frankreich, 14.-15.5.01 (2001).
- 4) G. Behr, *Rare-earth transition metal borocarbides and silicides - single crystal growth by floating zone technique using r.f. and optical heating*, Advanced Materials Laboratory of the NIMS, Tsukuba/Japan, 9.8.01 (2001).
- 5) G. Behr, *Single crystal growth in the Central Institute of Solid State Physics and Materials Research - From the sixties to now*, Advanced Materials Laboratory of the NIMS, Tsukuba/Japan, 9.8.01 (2001).
- 6) H. Bitterlich, *Zuechtung und Charakterisierung von SE-ÜM-Einkristallen*, Physikalisches Institut der Universitaet Goettingen, 5.11.01 (2001).
- 7) S. Borisenko, *ARPES of BSCCO using circularly polarized light*, VI. Training Course in the Physics of SCES and HTSC“, Vietri sul Mare, Solerno/Italien, 8.-19.10.01 (2001).
- 8) S.V. Borisenko, *An ARPES investigation of the PB-BSCCO: Spectral function and bilayer splitting*, Freie Universitaet Berlin, 10.12.01 (2001).
- 9) S.V. Borisenko, *Exploring the (k, w) space of the superconducting cuprates with SCIENTA analyzers*, 1st SCIENTA Users Meeting, Berlin-Adlershof, 5.12.01 (2001).
- 10) S.V. Borisenko, *Angle-resolved photoemission of PB-BSCCO: Searching for the circulating current phase in the pseudogap regime*, MPI-Physik korrelierter Systeme Dresden, 29.11.01 (2001).
- 11) C. Chartroux, K. Duerr, T. Rambusch, G. Goretzki, K. Gloe, M. Moeder, L. Dunsch, F. Vogtle, *Azacages and their open-chain counterparts: Metal ion complexation and solvent extraction studies*, International Symposium on Macrocyclic Chemistry, St.Andrews/Schottland, 20.6.-7.7.00 (2000).
- 12) K. Doerr, *Magnetotransport in Mn-Perowskiten und epitaktischen Multilagen mit SrTiO₃*, Universitaet Leipzig, 25.1.01 (2001).
- 13) K. Doerr, *Magnetismus und Magnetotransport: Duennschichtsysteme ferromagnetischer Manganate*, Universitaet Hamburg, 2.7.01 (2001).
- 14) K. Doerr, *Magnetismus und Magnetotransport in Systemen mit ferromagnetischen Manganaten*, Universitaet Goettingen, 11.6.01 (2001).
- 15) R. Dorka, *Grundlagen der Glimmentladungsspektroskopie*, Ausbildungskurs „Analytische Glimmentladungsspektroskopie (GDOES)“, ISAS Dortmund, 29.9.01 (2001).
- 16) L. Dunsch, *Neue Kohlenstoffstrukturen und neue Anwendungen*, Fruehjahrstagung des AK „Kohlenstoff“ der DKG, Kassel, 5.4.01 (2001).
- 17) L. Dunsch, P. Georgi, A. Bartl, M. Krause, *Nitrides in fullerenes - the properties of scandium and yttrium structures*, 199th Meeting of the Electrochemical Society, Washington/USA, 25.-29.3.01 (2001).
- 18) L. Dunsch, A. Stasko, A. Granov, A. Bartl, P. Rapta, *In situ spectroelectrochemistry of C₆₀ and its dimers: A quantitative study at different temperatures*, 199th Meeting of the Electrochemical Society, Washington/USA, 25.-29.3.01 (2001).
- 19) J. Eckert, *Bulk amorphous and nanostructured materials: Synthesis and properties*, Vortrag an der University of British Columbia, Dept. of Metals and Materials Engineering, Vancouver/Kanada, 16.2.01 (2001).
- 20) J. Eckert, *Massive amorphe und nanostrukturierte Materialien in mehrkomponentigen Legierungssystemen*, Seminar am 1. Physikalischen Institut der Universitaet Goettingen, 12.2.01 (2001).
- 21) J. Eckert, *Metallische Werkstoffe und Verbundwerkstoffe*, Seminar an der TU Ilmenau, 19.1.01 (2001).
- 22) J. Eckert, *Massive amorphe und nanostrukturierte Materialien: von der Physik zu neuen Werkstoffen*, Friedrich-Schiller-Universitaet Jena, 24.1.01 (2001).
- 23) J. Eckert, *Metastabile Phasen in mehrkomponentigen Systemen: von der Physik zu neuen Werkstoffen*, Institut fuer Materialphysik, Universitaet Muenster, 2.7.01 (2001).
- 24) J. Eckert, *Metastabile Phasen als Grundlage neuer Werkstoffe*, Max-Planck-Institut fuer Eisenforschung, Duesseldorf, 30.5.01 (2001).
- 25) J. Eckert, S. Deledda, B. Bartusch, U. Kuehn, U. Wolff, A. Gebert, *The effect of second phase particles on thermal stability, deformation behavior and electrochemical properties of Zr- and Mg-based bulk metallic glasses*, ISMANAM 2001, Ann Arbor/USA, 24.-29.6.01 (2001).
- 26) J. Eckert, F. Schurack, J. Boerner, S. Deledda, *High strength nanostructured aluminium alloys based on quasicrystalline or amorphous phases*, 10th International Symposium on Processing and Fabrication of Advanced Materials PFAM-X, Indianapolis/USA, 5.-8.11.01 (2001).
- 27) J. Eickemeyer, M. Falter, A. Gueth, R. Opitz, *Vermeidung von Oberflaechenrissen beim Gleitziehen*, DFG-Kolloquium „Erweiterung der Formgebungsgrenzen bei Umformprozessen“, Bonn, 11.-12.9.01 (2001).
- 28) H. Eschrig, *The convex analysis approach to density functional theory for total energies*, 262. WE-Heraeus-Seminar „Modern Aspects of Many-Electron Theory“, Bad Honnef, 21.-24.10.01 (2001).

- 29) H. Eschrig, *Dichtefunktional-Theorie-basierte Modelle fuer Spinkettensysteme*, Physikalisches Kolloquium, Universitaet Regensburg, 5.2.01 (2001).
- 30) H. Eschrig, *Introduction into the density functional theory*, European Graduate School on Condensed Matter, Prag/Tschechische Republik, 9.-16.6.01 (2001).
- 31) H. Eschrig, *FPLO, a completely independent proof of accuracy of WIEN97*, Konferenz „Applied DFT 2001“, Wien/Oesterreich, 14.-17.1.01 (2001).
- 32) H. Eschrig, *Dichtefunktional-Theorie-basierte Modelle fuer Spinkettensysteme*, Physikalisches Kolloquium, Universitaet Saarbruecken, 25.1.01 (2001).
- 33) H. Eschrig, *Von Dichtung und Wahrheit: Was ist und was kann die DFT wirklich?*, Physikalisches Kolloquium der Universitaet Hamburg, 28.6.01 (2001).
- 34) H. Eschrig, *DFT based models for spin-chain systems*, Kolloquium am MPI FKF, Stuttgart, 2.5.01 (2001).
- 35) H. Eschrig, W. Pickett, *Density functional theory of magnetic systems revisited*, ESF/TMR Workshop „Noncollinear Magnetism“, Wien/Oesterreich, 8.-10.3.01 (2001).
- 36) J. Fink, *Comparative electronic structure studies on fullerenes, nanotubes, diamond, and DLC*, 12th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotubes, Nitrides & Silicon Carbides, Budapest/Ungarn, 2.-7.9.01 (2001).
- 37) J. Fink, *Recent results from photoemission spectroscopy on high-Tc superconductors and related compounds*, International School for Advanced Studies, Trieste/Italien, 16.4.01 (2001).
- 38) J. Fink, *Recent results from high-energy inelastic electron scattering*, International Conference on Inelastic X-ray Scattering, Haikko/Finnland, 22.-26.8.01 (2001).
- 39) J. Fink, *Valence and core-electron spectroscopy applied to doped fullerenes and nanotubes*, Deutsch-Russisches Treffen, BESSY GmbH, Berlin, 19.11.01 (2001).
- 40) J. Fink, *Experimental studies of undoped and doped cuprates*, MPG-Workshop on Chemical Physics of Emerging Materials, Rottach-Egern, 28.5.-1.6.01 (2001).
- 41) J. Fink, *Electronic structure studies of conjugated carbon based synthetic metals and semiconductors*, International Workshop on Quantum Transport in Synthetic Metals and Quantum Functional Semiconductors, Seoul/Korea, 8.-11.5.01 (2001).
- 42) J. Fink, *Hochenergie-Spektroskopie an organischen Materialien und deren Grenzflaechen zu Metallen*, WE-Heraeus-Ferienkurs fuer Physik „Organische Oberflaechen und Grenzflaechen - das Interface zur Biowelt“, Chemnitz, 16.-28.9.01 (2001).
- 43) J. Fink, *Recent electronic structure studies of solids using angular resolved electron energy-loss spectroscopy*, JEELS 2001, Ile de Noirmoutier/Frankreich, 19.-21.9.01 (2001).
- 44) J. Fink, *Synthese, elektronische Struktur und Anwendungen von Kohlenstoffnanoroehren*, Kolloquium Universitaet Augsburg, 18.6.01 (2001).
- 45) J. Fink, *Synthesis, characterization and application of carbon nanotubes*, Technische Universitaet Szczecin/Polen, 28.6.01 (2001).
- 46) J. Fink, *Recent experimental studies of the electronic structure of high-Tc superconductors by ARPES*, MACOR Conference, Dresden, 16.-20.7.01 (2001).
- 47) J. Fink, X. Liu, T. Pichler, L. Alvarez, M. Knupfer, M.S. Golden, *Electronic structure of carbon nanotubes: aligned, doped and filled*, International Symposium on Nanonetwork Materials: Fullerenes, Nanotubes, and Related Systems, Kamakura/Japan, 16.-18.1.01 (2001).
- 48) C. Fischer, *Neuere Ergebnisse der Herstellung und Untersuchung supraleitender Baender mit Tc >= 90 K*, Kolloquium am Physikalischen Institut der Universitaet Bielefeld, 5.6.01 (2001).
- 49) G. Fuchs, *MgB2: Ein neuer Supraleiter mit vielversprechenden Eigenschaften*, Seminar am Atominstitut der Oesterreichischen Universitaeten, Wien/Oesterreich, 26.11.01 (2001).
- 50) G. Fuchs, K.-H. Mueller, J. Freudenberger, K. Nenkov, S.-L. Drechsler, H. Rosner, S.V. Shulga, A. Gladun, D. Lipp, *Influence of substitutional disorder on superconductivity in nonmagnetic rare-earth nickel borocarbides*, International Symposium on Advances in Superconductivity & Magnetism: Materials, Mechanisms & Devices, Mangalore/Indien, 25.-28.9.01 (2001).
- 51) A. Gebert, *Electrochemical properties of Zr-based alloys with high glass-forming ability*, Kolloquium Chalmers Universitaet, Goeteborg/Schweden, 28.11. - 2.12.01 (2001).
- 52) T. Gemming, *Quantitative HRTEM: Global information from local analysis*, Dreilaendertagung „Elektronenmikroskopie“, Innsbruck/Oesterreich, 9.-14.9.01 (2001).
- 53) M.S. Golden, *Electronic structure of Bi-based HTSC from high resolution angle scanned photoemission*, Seminar, Universitaet Leiden/Niederlande, 3.4.01 (2001).
- 54) M.S. Golden, *A spectroscopic view of the electronic structure and excitations of novel materials: Examples from the worlds of HTSC and carbon nanostructures*, Seminar, Universitaet Amsterdam/Niederlande, 2.4.01 (2001).
- 55) M.S. Golden, *Fermiology of HTSC from angle-scanned photoemission*, Seminar „Swiss Light Source“, PSI Villigen/Schweiz, 6.4.01 (2001).

- 56) M.S. Golden, S. Atzkern, M. Knupfer, J. Fink, A.N. Yaresko, V.N. Antonov, A. Huebsch, C. Waidacher, K.W. Becker, W. von der Linden, G. Obermaier, S. Horn, *Dynamics of charge excitations in the NaV₂O₅ spin ladder system - experiment and theory*, DPG-Fruehjahrstagung, Hamburg, 25.-30.3.01 (2001).
- 57) M.S. Golden, X. Liu, T. Pichler, M. Knupfer, J. Fink, D. Walters, M.J. Bronikowski, R.E. Smalley, H. Karaura, O. Jost, A. Gorbunov, W. Pompe, *The optical properties and electronic structure of SWCNT: empty, stuffed or surrounded by dopants*, 11th International Workshop on the Science and Application of Nanotubes, Potsdam, 22.-25.7.01 (2001).
- 58) M.S. Golden, X. Liu, T. Pichler, M. Knupfer, J. Fink, D. Walters, M.J. Bronikowski, R.E. Smalley, H. Kataura, O. Jost, A.A. Gorbunov, W. Pompe, *Optical properties and electronic structure of pristine, exohedrally and endohedrally doped SWCNT*, XVth International Winterschool on Electronic Properties of Novel Materials, Kirchberg/Oesterreich, 3.-10.3.01 (2001).
- 59) W. Gruner, *Probleme der Nichtmetall-Gasanalyse*, Vollsitzung des Chemikerausschusses der GDMB, Grevenbroich, 7.11.01 (2001).
- 60) O. Gutfleisch, *Nanocrystalline hard magnetic materials*, TMS Conference 2001, New Orleans/USA, 14.2.01 (2001).
- 61) O. Gutfleisch, *Hartmagnete*, WEHeraeus Summer School, TU Dresden, 10.9.01 (2001).
- 62) O. Gutfleisch, *Nanocrystalline high performance magnets*, JEMS 01 Joint European Magnet Symposia, Grenoble/Frankreich, 29.8.01 (2001).
- 63) O. Gutfleisch, *Nanocrystalline high performance magnets*, Jozef-Stefan-Institute, Ljubljana/Slowenien, 19.4.01 (2001).
- 64) O. Gutfleisch, K.-H. Mueller, *Intermetallische Verbindungen und Magnetwerkstoffe*, BMBF Workshop „Magnetwerkstoffe“, TU Darmstadt, 22.5.01 (2001).
- 65) M. Heilmaier, *Creep behaviour of Zr-based bulk metallic glasses*, Conference „Stability of Materials“, Ascona/Schweiz, 4.-10.3.01 (2001).
- 66) M. Heilmaier, *Zum Kriechverhalten massiver amorpher Metalle*, 22. Adelbodener Werkstoffseminar, Adelboden/Schweiz, 12.-15.3.01 (2001).
- 67) M. Heilmaier, *Herstellung und Eigenschaften massiver amorpher Zirkon-Basis-Legierungen*, Kolloquium Werkstofftechnik/Oberflaechentechnik des Institutes fuer Werkstofftechnik der Universitaet Siegen, 10.1.01 (2001).
- 68) H. Hermann, *Mechanismen der Nanokristallisation in amorphen metallischen Legierungen*, Institutsseminar am Hahn-Meitner-Institut Berlin, 23.3.01 (2001).
- 69) V. Hoffmann, *Developments in GD-OES and -MS at IFW*, Institutsseminar der Fakultaeet Chemie der Universitaet Bloomington/USA, 11.9.01 (2001).
- 70) V. Hoffmann, *Grundlagen und Anwendungen der RF-GD-OES*, Seminar „Praktische Glimmentladungsspektrometrie“, Herrsching, 25.-26.6.01 (2001).
- 71) V. Hoffmann, R. Dorka, L. Wilken, K. Wetzig, *Constructional developments for analytical spectrometry with RF glow discharges*, FACSS 2001, Detroit/USA, 7.-12.10.01 (2001).
- 72) P. Joehnk, *System und Instrumente der Forschungsfoerderung in Deutschland*, Praesentation von Proman+Easy an der Staatlichen Elektrotechnischen Universitaet St. Petersburg/Russland, 17.9.01 (2001).
- 73) P. Joehnk, *Vom ZFW zum IFW - Ein Beispiel fuer den Umbauprozess in der Forschungslandschaft Ostdeutschlands*, Ministry of Science, Technology and Ecology Hanoi/SR Vietnam, 25.9.01 (2001).
- 74) P. Joehnk, *Kosten- und Leistungsrechnung in Forschungseinrichtungen*, Saechsisches Staatsministerium fuer Wissenschaft und Kunst, Dresden, 2.4.01 (2001).
- 75) P. Joehnk, *Projektmanagement mit Proman-W*, CPMS Fachtagung Frankfurt/Main, 3.-4.9.01 (2001).
- 76) P. Joehnk, *Ausbildungs- und Arbeitsmoeglichkeiten in technisch-naturwissenschaftlichen Berufen, gezeigt am Beispiel der Werkstoffwissenschaften in Dresden*, Gymnasium Coswig, 11.1.01 (2001).
- 77) C.A. Kleint, S. Chakraborty, J. Schumann, A. Heinrich, *Strukturelle und thermoelektrische Eigenschaften von Si/Ge-Supergittern*, Kolloquium Oberflaechenphysik, TU Chemnitz, 18.1.01 (2001).
- 78) M. Knupfer, *Electronic excitations in PTCDAs: an electron energy loss spectroscopy study*, Workshop „Excitons in ultrathin organic films“, TU Dresden, 21.-27.6.01 (2001).
- 79) M. Knupfer, *Elektronische Anregungen in organischen Halbleitern*, TU Chemnitz, 13.7.01 (2001).
- 80) M. Knupfer, *Elektronische Zustaeende und Anregungen in organischen Halbleitern und deren Grenzflaechen*, Seminar Universitaet Erlangen, 15.5.01 (2001).
- 81) M. Knupfer, *Elektronische Eigenschaften organischer Halbleiter und deren Grenzflaechen*, Kolloquium an der Universitaet Freiburg, 25.10.01 (2001).
- 82) M. Knupfer, *Dynamic charge response of low dimensional spin systems*, Workshop „Ordering Phenomena in Transition Metal Oxides“, Kloster Irsee, 7.-10.10.01 (2001).
- 83) M. Knupfer, *Electronic excitations in organic semiconductors*, Workshop „Optical excitations in Pi-conjugated systems“, Marburg, 7.-9.11.01 (2001).
- 84) M. Knupfer, *Elektronenstruktur eindimensionaler Kuprate und Vanadate*, Seminar, Universitaet Frankfurt/Main, 8.2.01 (2001).

- 85) M. Knupfer, J. Fink, D. Fichou, *Confined polaron excitations in charged organic semiconductors*, International Symposium on Optical Science and Technology, San Diego/USA, 29.7.-3.8.01 (2001).
- 86) M. Knupfer, T. Pichler, M.S. Golden, J. Fink, N. Tagmatarchis, K. Prassides, *Electronic structure studies of potassium intercalated C59N using photoemission spectroscopy*, 199th Meeting of the Electrochemical Society, Washington/USA, 25.-30.3.01 (2001).
- 87) G. Krabbes, *Massive Hochtemperatursupraleiter: Materialwissenschaftliche Aspekte (Grundlagen-Herstellung-Beeinflussung der Eigenschaften)*, Physikalisches Kolloquium der TU Cottbus, 20.11.01 (2001).
- 88) G. Krabbes, G. Fuchs, P. Diko, C. Wende, T. Hopfinger, *REBaCuO/Ag composites: Fundamentals of processing, microstructure, control of properties*, PASREG 2001, 3rd Workshop on Processing and Application of RE Large Grain Materials, Seattle/USA, 10.-13.7.01 (2001).
- 89) G. Krabbes, G. Fuchs, P. Verges, P. Diko, G. Stoever, S. Gruss, *The way to 16 T trapped fields in modified YBCO materials*, Internationales Symposium on Superconductivity, ISS 2001, Kobe/Japan, 25.-28.9.01 (2001).
- 90) A. Leonhardt, K. Bartsch, C. Taeschner, *Manufacturing and structure investigation of plasma-enhanced CVD layer systems*, International Conference on Metallurgical Coatings and Thin Films (ICMCTF 2001), San Diego/USA, 30.4.-4.5.01 (2001).
- 91) N. Mattern, *Strukturuntersuchungen an ultradünnen Schichten mittels Synchrotronstrahlung*, 11. Tagung Festkörperanalytik, Chemnitz, 25.-28.6.01 (2001).
- 92) N. Mattern, *Nahordnung in massiven metallischen Gläsern*, Jahrestagung der Gesellschaft fuer Kristallographie, DGK 2001, Bayreuth, 12.-15.3.01 (2001).
- 93) A. Moebius, *Sets of local minima: From Coulomb glass to traveling salesman*, Mathematics Seminar, California State University, Bakersfield/USA, 3.11.99 (1999).
- 94) A. Moebius, *Sätze lokaler Energie minima - vom Coulomb gap zum Handlungsreisenden*, Institut fuer Theoretische Physik der TU Magdeburg, 23.11.99 (1999).
- 95) S.L. Molodtsov, S.V. Halilov, V.D.P. Servedio, M. Richter, W. Schneider, S. Danzenbaecher, J.J. Hinarejos, A. Zangwill, C. Laubschat, *Cooper minima and resonant photoemission on transition metal and actinide systems*, Department of Physics, University of California, Davis/USA, 9.4.01 (2001).
- 96) K.-H. Mueller, *MgB2 - ein neuer Supraleiter*, Kolloquium, TU Braunschweig, 11.12.01 (2001).
- 97) V.N. Narozhnyi, G. Fuchs, J. Freudenberger, K. Nenkov, D. Eckert, K.-H. Mueller, *Superconducting and normal state properties of Y1-xPrxNi2B2C*, Third International Conference on New Theories, Discoveries, and Applications of Superconductors and Related Materials (New3SC-3), Honolulu/Hawaii, 15.-19.1.01 (2001).
- 98) P.M. Oppeneer, *Valenzband- und Roentgen-Magnetooptik: Neuere theoretische Ergebnisse*, MPI-Stuttgart, 12.6.01 (2001).
- 99) P.M. Oppeneer, *X-ray magneto-optical spectroscopies: Recent theoretical developments*, Forschungszentrum Juelich, 17.11.01 (2001).
- 100) P.M. Oppeneer, *Even and odd in M: Theory and experiment of magneto-X-ray spectroscopies*, International Workshop on X-ray Spectroscopies of Magnetic Solids" am MPI Halle, 8.-9.12.01 (2001).
- 101) P.M. Oppeneer, *Theoretical results on the Pu-monochalcogenides and on intermetallic U-compounds*, Konferenz „The Physics of the f-Electron Systems“, Daresbury/UK, 6.-8.4.01 (2001).
- 102) P.M. Oppeneer, I. Galanakis, O. Eriksson, *Unusual magnetism and magnetocrystalline anisotropy of CrPt3*, Workshop „Noncollinear Magnetism“, Wien /Oesterreich, 8.-10.3.01 (2001).
- 103) G. Paasch, *Polymerelektronik*, Seminar am Institut fuer Physik und Institut fuer Festkoerperelektronik, TU Ilmenau, 8.3.01 (2001).
- 104) G. Paasch, S. Scheinert, *The influence of the direct polaron-bipolaron reaction on the transport kinetics of organic semiconductors*, European Conference on Organic Electronics, Potsdam, 18.-21.11.01 (2001).
- 105) H. Peisert, *Funktionswerkstoffe der Zukunft: Organische Halbleiter*, Staatliche Studienakademie Leipzig, 13.12.01 (2001).
- 106) T. Pichler, *Resonance Raman scattering of doped peapods*, FUNCARS Meeting 2001, Wien/Oesterreich, 19.5.01 (2001).
- 107) T. Pichler, *Electronic structure studies of pristine and doped single wall carbon nanotubes from electron energy-loss spectroscopy in transmission*, Ecole Polytechnique Paris/Frankreich, 12.11.01 (2001).
- 108) T. Pichler, *A vibronic study of the stability of azafullerenes*, ECS Meeting, Washington/USA, 25.-30.3.01 (2001).
- 109) T. Pichler, *Photoselective resonance Raman scattering on pristine and potassium doped pea-pods*, XVth International Winterschool on Electronic Properties of Novel Materials, Kirchberg/Oesterreich, 3.-10.3.01 (2001).
- 110) M. Richter, *Cooper minima in solids*, Seminar am Politecnico di Milano/Italien, 31.5.01 (2001).
- 111) M. Richter, *Magnetocrystalline anisotropy of rare-earth-transition metal compounds: density functional theory*, Karls-Universitaet Prag/Tschechien, 13.12.01 (2001).

- 112) U. Roessler, *Numerische Modellierung magnetischer Systeme: Cluster, feine Partikel, magnetische Wirbel und mehr*, Symposium ueber „Computergestuetzte Materialphysik“, Institut fuer Materialphysik, Uni Goettingen, 9.3.01 (2001).
- 113) S. Roth, H. Grahl, J. Degmova, N. Schlorke-de Boer, M. Stoica, J. Eckert, J.M. Borrego, A. Conde, N.M. Mitrovic, *Magnetic properties of some (Fe-Co)-(Al, Ga, Si)-(B,C,D) alloys with large undercooling, influence of preparation and treatment*, International Workshop on Amorphous and Nanocrystalline Magnetic Materials, ANMM 2001, Iasi/Rumaenien, 17.-18.9.01 (2001).
- 114) P. Rudolf, I. Marenne, M.R.C. Hunt, T. Pichler, Z. Hu, C. Grazioli, P. Georgi, L. Dunsch, M.S. Golden, *Synchrotron radiation studies of metallofullerenes*, Workshop „Synchrotron Radiation and the Cuprate, Fulleride and New High-Temperature Superconductors“, Trieste/Italien, 6.-8.12.01 (2001).
- 115) C.M. Schneider, *Magnetismus in nanoskaligen Multischichtsystemen*, Seminar am IWS der FhG Dresden, 20.12.01 (2001).
- 116) C.M. Schneider, *Magnetische Schichtsysteme: Grundlagen und Anwendungen*, Universitaet Duisburg, 19.6.01 (2001).
- 117) C.M. Schneider, *Ultraduene magnetische Schichtsysteme - Grundlagen und Anwendungsaspekte*, Seminar am Forschungszentrum Rossendorf, 19.4.01 (2001).
- 118) C.M. Schneider, *Magnetismus in Systemen reduzierter Dimension*, Forschungszentrum Juelich, 18.7.01 (2001).
- 119) L. Schultz, *New aspects of HTc materials development*, MPG-Workshop on Chemical Physics of Emerging Materials, Rottach-Egern, 30.5.01 (2001).
- 120) L. Schultz, *Kalte Supermagnete - oder vom Schweben auf Magnetfeldern*, Erlanger Werkstofftag, Institut fuer Werkstoffwissenschaften an der Universitaet Erlangen-Nuernberg, 6.7.01 (2001).
- 121) L. Schultz, *Hochtemperatur-Supraleiter - vom physikalischen Effekt zu neuen Werkstoffen*, Physikalisches Kolloquium an der Universitaet Tuebingen, Experimentalphysik II, 9.5.01 (2001).
- 122) L. Schultz, *Materials development of high temperature superconductors*, 4th German-Vietnamese Seminar on Physics and Engineering, TU Dresden, 6.6.01 (2001).
- 123) L. Schultz, *HT-Supraleiter - von physikalischen Grundlagen zu neuen Werkstoffen (mit Experiment)*, IKTS-Seminar, Dresden, 29.10.01 (2001).
- 124) L. Schultz, *Massive nanostrukturierte magnetische Materialien*, Nanomat Trend, Geschaeftsstelle Forschungszentrum Karlsruhe GmbH, Reinstdorf, 21.-23.10.01 (2001).
- 125) L. Schultz, *Auf starken Magnetfeldern in die Zukunft schweben*, Oeffentlicher Abendvortrag aus Wissenschaft, Technik und Kultur, DESY Hamburg, 13.12.01 (2001).
- 126) L. Schultz, *Hochtemperatur-Supraleiter - von der Physik zu neuen Werkstoffen*, Werkstoff-Forum der RWTH Aachen, Institut fuer Werkstoffkunde, Aachen, 19.1.01 (2001).
- 127) L. Schultz, *Hochtemperatursupraleiter: Auf dem Weg zu neuen Werkstoffen*, Werkstoffkolloquium an der Universitaet Karlsruhe, 30.1.01 (2001).
- 128) L. Steinbeck, M. Richter, M. Kuzmin, H. Eschrig, *Magnetocrystalline anisotropy of rare-earth-transition-metal compounds: density functional theory*, Symposium Universitaet Uppsala/Schweden, 27.-28.9.01 (2001).
- 129) C. Vogt, *Aktuelle Anwendungen der ICP-MS in der Industrie - ein Ueberblick*, 17. ICP-MS Anwendertreffen, Wien/Oesterreich, 10.-12.9.01 (2001).
- 130) H. Wendrock, K. Wetzig, S. Menzel, T.G. Koetter, D. Rauser, *Combined use of in-situ techniques in a SEM, EBSD and FIB for investigation of migration in thin metallic structures*, Dreilaendertagung „Elektronenmikroskopie“, Innsbruck/Oesterreich, 9.-14.9.01 (2001).
- 131) K. Wetzig, *Analytische TEM fuer Probleme der Duennschichtforschung*, Physikalisches Kolloquium der TU Wien, 4.12.01 (2001).
- 132) K. Wetzig, *In-situ-Untersuchungen der Elektromigration an Metallisierungsschichten mikroelektronischer Bauelemente im REM*, Physikalisches Kolloquium der TU Graz/Oesterreich, 29.3.01 (2001).
- 133) K. Wetzig, *Nanoscale materials characterization by analytical transmission electron microscopy*, 4th Vietnamese-German Seminar on Physics and Engineering, Dresden 4.-9.6.01 (2001).
- 134) K. Wetzig, *In-situ-Untersuchungen der Elektromigration an Metallisierungsschichten mikroelektronischer Bauelemente im REM*, 11. Tagung Festkoerperanalytik, Chemnitz, 25.-28.6.01 (2001).
- 135) K. Wetzig, *Moeglichkeiten und Leistungsgrenzen der analytischen TEM bei der Untersuchung duennster Funktionsschichten*, Physikalisches Kolloquium der Universitaet Kassel, 10.5.01 (2001).
- 136) K. Wetzig, *Moeglichkeiten und Grenzen der Analytischen TEM fuer die Untersuchung von duennen Schichten und Schichtverbunden*, Forschungsinstitut fuer Elektronenmikroskopie, Graz/Oesterreich, 30.3.01 (2001).
- 137) K. Wetzig, *Moeglichkeiten und Grenzen der analytischen TEM fuer die Untersuchung von Funktionswerkstoffen*, Physikalisches Kolloquium der Universitaet Kiel, 12.11.01 (2001).
- 138) K. Wetzig, *Nanoanalytik im Transmissionselektronenmikroskop*, Wissenschaftl. Kolloquium „Nanopartikel im TEM“, TU Bergakademie Freiberg, 27.6.01 (2001).

- 139) S. Wimbush, *Structural and superconducting properties of epitaxial a-axis and c-axis oriented YNi₂B₂C thin films*, Institut fuer Kristallographie und Festkoerperphysik der TU Dresden, 8.5.01 (2001).
- 140) M. Zinkevich, *Thermodynamics of hydrogen in Fe-Sm alloys*, Max-Planck-Institut fuer Metallforschung Stuttgart, 26.10.01 (2001).