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Abbati, G.L., L.C. Brunel, H. Casalta, A. Cornia, A.C. Fabretti, D. Gatteschi, A.K. Hassan, A.G.M. Jansen, A.L. Maniero, L. Pardi and C. Paulsen: Single-ion versus dipolar origin of the magnetic anisotropy in iron(III)-oxo clusters: A case study. *Chemistry: A European Journal* **7**, 1796-1807 (2001).

Achary, S.N., A.K. Tyagi and J. Köhler: Stabilization of high temperature tysonite type compounds in the Sr-Yb-F system-synthesis and Rietveld refinement. *Materials Research Bulletin* **36**, 1109-1115 (2001).

Adam, W., H. Garcia, V. Marti, J.N. Moorthy, K. Peters and E.-M. Peters: Photochemical denitrogenation of norbornene-annelated 2,3-diazabicyclo[2.2.1]hept-2-ene-type azoalkanes: crystal-lattice versus zeolite-interior effects. *Journal of the American Chemical Society* **122**, 3536-3537 (2000).

Adam, W., K. Peters, E.-M. Peters and S.B. Schambony: Efficient control of the diastereoselectivity and regioselectivity in the singlet-oxygen ene reaction of chiral oxazolidine-substituted alkenes by a remote urea NH functionality: comparison with dimethyldioxirane and m-chloroperbenzoic acid epoxidations. *Journal of the American Chemical Society* **123**, 7228-7232 (2001).

Adam, W., K. Peters, E.-M. Peters and V.R. Stegmann: Hydroxy-directed regio- and diastereoselective [2+2] photo-cycloaddition (Paternò-Büchi reaction) of benzophenone to chiral allylic alcohols. *Journal of the American Chemical Society* **122**, 2958-2959 (2000).

Adelsberger, K., J. Curda, S. Vensky and M. Jansen: High-pressure synthesis and electrochemical investigation of $\text{Ag}_2\text{Cu}_2\text{O}_3$. *Journal of Solid State Chemistry* **158**, 82-86 (2001).

Adelsberger, K., L. Prigent-Croguennec and M. Jansen: Electrochemical deintercalation of Ag_2PbO_2 . *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 2473-2476 (2001).

Ahlswede, E., P. Weitz, J. Weis, K. von Klitzing and K. Eberl: Hall potential profiles in the quantum Hall regime measured by a scanning force microscope. *Physica B* **298**, 562-566 (2001).

Ahlswede, E. siehe Bürkle, L.

Ahn, K., B.J. Gibson, R.K. Kremer, H. Mattausch, L. Keller and A. Simon: Magnetic ordering within the layered terbium carbide iodide, $\text{Tb}_2\text{C}_2\text{I}_2$. *Journal of Alloys and Compounds* **323**, 400-403 (2001).

Albrecht, J., S. Leonhardt and H. Kronmüller: Influence of vortex-vortex interaction on critical currents across low-angle grain boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films. *Physical Review B* **63**, 014507 (2001).

Albrecht, C., J.H. Smet, K. von Klitzing, D. Weiss, V. Umansky and H. Schweizer: Evidence of Hofstadter's fractal energy spectrum in the quantized Hall conductance. *Physical Review Letters* **86**, 147-150 (2001).

Andersen, O.K., T. Saha-Dasgupta, S. Ezhov, L. Tsetseris, O. Jepsen, R.W. Tank, C. Arcangeli and G. Krier: Third-generation MTOs. *Psi-k Newsletter* **45**, 86-119 (2001).

Andersen, O.K. siehe Kobayashi, K.; Kong, Y.; Pavarini, E.; Szotek, Z.

Andersson, K.K. and A.L. Barra: The use of high field/frequency EPR (HF-EPR) in studies of radical and metal sites in proteins and small inorganic models. *Journal of Inorganic Biochemistry* **86**, 124-124 (2001).

Andres, D., M. V. Kartsovnik, W. Biberacher, T. Togonidze, H. Weiss, E. Balthes and N. Kushch: Magneto-resistance studies of α -(ET) $_2\text{KHg}(\text{SCN})_4$ under pressure. *Synthetic Metals* **120**, 841-842 (2001).

Andres, D., M.V. Kartsovnik, W. Biberacher, H. Weiss, E. Balthes, H. Müller and N. Kushch: Orbital effect of a magnetic field on the low-temperature state in the organic metal α -(BEDT-TTF)₂KHg(SCN)₄. *Physical Review B* **64**, 161104 (2001).

Artigas, M., M. Bacmann, D. Fruchart, R. Fruchart, M. Guillot and P. Vulliet: A comparative analysis of the three polymorphic structures H₃, O₁₀ and H₁₂ of FeRhP. *Journal of Alloys and Compounds* **317**, 262-265 (2001).

Aruta, C., J. Zegenhagen, B. Cowie, G. Balestrino, G. Pasquini, P.G. Medaglia, F. Ricci, D. Luebbert, T. Baumach, E. Riedo, L. Ortega, R. Kramer and J. Albrecht: Structure of superconducting [BaCuO_x]₂/[CaCuO₂]_n superlattices on SrTiO₃ (001) investigated by X-ray scattering. *physica status solidi (a)* **183**, 353-364 (2001).

Askenazy, S., J. Billette, P. Dupré, P. Ganau, J. Mackowski, J. Marquez, L. Pinard, O. Portugall, D. Ricard, G.L.J.A. Rikken, C. Rizzo, G. Trenec and J. Vigué: A 25 T dipoled pulsed field magnet to study the magnetic birefringence of vacuum. *AIP Conference Proceedings* **564**, 115-122 (2001).

Assarsson, M., M.E. Andersson, M. Hogbom, B.O. Persson, M. Sahlin, A.L. Barra, B.M. Sjöberg, P. Nordlund and A. Graslund: Restoring proper radical generation by azide binding to the iron site of the E238A mutant R2 protein of ribonucleotide reductase from Escherichia coli. *Biological Chemistry* **276**, 26852-26859 (2001).

Atkinson, K.S., A.I. Minett and S. Roth: Introduction to molecular nanostructures. *AIP Conference Proceedings* **591**, 3-9 (2001).

Auer, U., W. Prost, M. Agethen, F.J. Tegude, R. Duschl and K. Eberl: Low-voltage MOBILE logic module based on Si/SiGe interband tunnelling diodes. *IEEE Electron Device Letters* **22**, 215-217 (2001).

Auffermann, G., A. Simon, T. Gulden, G.J. Kearley and A. Ivanov: Location and vibrations of hydrogen in La₂C₃H_{1.5}. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 307-311 (2001).

Awana, V.P.S., M. Karppinen, H. Yamauchi, S.K. Malik, W.B. Yelon, A. Mehta and A.V. Narlikar: Magnetization and heat capacity of R_{1/3}Sr_{2/3}FeO_{3- δ} (R = La and Pr). *IEEE Transactions on Magnetics* **37**, 2163-2165 (2001).

Bala, J., A.M. Oleś and P. Horsch: Possible scenarios for the quasiparticle behavior in the undoped LaMnO₃. *Acta Physica Polonica B* **32**, 3375-3379 (2001).

Balkashin, O.P., T.M. Brill, A.G.M. Jansen, P. Wyder, G.L. Sukhodub and I.K. Yanson: Relaxation dynamics in the high-frequency crystal-field spectroscopy of PrNi₅ point contacts. *Low Temperature Physics* **27**, 69-73 (2001).

Barba, D., S. Jandl, A.A. Martin, C.T. Lin, M. Cardona and T. Wolf: Optical study of RE_{1+x}Ba_{2-x}Cu₃O₆ (RE = Nd, Sm) and YBa₂Cu₃O₆ in the mid infrared range. *European Physical Journal B* **22**, 277-281 (2001).

Barba, D., S. Jandl, V. Nekvasil, M. Marysko, M. Divis, A.A. Martin, C.T. Lin, M. Cardona and T. Wolf: Infrared transmission study of crystal-field excitations in Sm_{1+x}Ba_{2-x}Cu₃O_{6+y}. *Physical Review B* **63**, 054528 (2001).

Barentzen, H.: An analytic study of the E ⊗ e Jahn-Teller polaron. *The European Physical Journal B* **24**, 197-209 (2001).

Barra, A.L., F. Bencini, A. Caneschi, D. Gatteschi, C. Paulsen, C. Sangregorio, R. Sessoli and L. Sorace: Tuning the magnetic properties of the high-spin molecular cluster Fe₈. *ChemPhysChem* **2**, 523-531 (2001).

Barth, J.V. siehe Weckesser, J.

Becker, M., H. Bender, M. Jansen, L. Kienle and W. Assenmacher: Efficient access to bamboo-like carbon micro and nanofibres by pyrolysis of zinc cyanamide. *Physics and Chemistry of Solids* **62**, 1431-1433 (2001).

- Becker, M. and M. Jansen: Zinc cyanamide, $\text{Zn}(\text{CN})_2$. *Acta Crystallographica C* **57**, 347-348 (2001).
- Benedetti, P., J. van den Brink, E. Pavarini, A. Vigliante and P. Wochner: Ab initio calculation of resonant X-ray scattering in manganites. *Physical Review B* **63**, 060408 (2001).
- Ben-Ezra, Y., Y.V. Pershin, Y. A. Kaplunovsky, I.D. Vagner and P. Wyder: Modeling of the dielectric breakdown under strong magnetic fields. *Journal of Statistical Physics* **106**, 653-661 (2001).
- Benoit, D.M., D. Sebastiani and M. Parrinello: Accurate total energies without self-consistency. *Physical Review Letters* **87**, 226401 (2001).
- Bensch, W., B. Sander, R.K. Kremer and W. Kockelmann: Unexpected spin-glass behavior of the mixed sulfide-selenide chalcogenides $\text{TlCr}_5\text{S}_{8-y}\text{Se}_y$ ($y = 1-7$) mediated by the nonmagnetic sublattice. *Journal of Solid State Chemistry* **158**, 198-207 (2001).
- Bensch, W., B. Sander, C. Nather, R.K. Kremer and C. Ritter: Synthesis, crystal structure, magnetic properties and spin glass behaviour of the new ternary compound Cr_4TiSe_8 . *Solid State Sciences* **3**, 559-568 (2001).
- Bernhard, C., J.L. Tallon, T. Blasius, A. Golnik and C. Niedermayer: Anomalous peak in the superconducting condensate density of cuprate high- T_c superconductors at a unique doping state. *Physical Review Letters* **86**, 1614-1617 (2001).
- Bernhard, C. siehe Boris, A.V.; Griesshaber, E.; Lin, C.T.; Munzar, D.; Sidis, Y.
- Bianchi, V., D. Caurant, N. Baffier, C. Belhomme, E. Chappel, G. Chouteau, S. Bach, J.P. Pereira-Ramos, A. Sulpice and P. Wilmann: Synthesis, structural characterization and magnetic properties of quasistoichiometric LiNiO_2 . *Solid State Ionics* **140**, 1-3 (2001).
- Boero, M., K. Terakura, T. Ikeshoji, C.C. Liew and M. Parrinello: Water at supercritical conditions: A first principles study. *Journal of Chemical Physics* **115**, 2219-2227 (2001).
- Boero, M., M. Parrinello, H. Weiss and S. Huffer: A first principles exploration of a variety of active surfaces and catalytic sites in Ziegler-Natta heterogeneous catalysis. *Journal of Physical Chemistry A* **105**, 5096-5105 (2001).
- Bonard, J.M., N. Weiss, H. Kind, T. Stöckli, L. Forro, K. Kern and A. Châtelain: Tuning the field emission properties of patterned carbon nanotube films. *Advanced Materials* **13**, 184-188 (2001).
- Bordet, P., M. Mezour, Nuñez-Regueiro M., M. Monteverde, M.D. Nuñez-Regueiro, N. Rogado, K.A. Regan, M.A. Hayward, T. He, S.M. Loureiro and R.J. Cava: Absence of a structural transition up to 40 GPa in MgB_2 and the relevance of magnesium nonstoichiometry. *Physical Review B* **64**, 172502 (2001).
- Boris, A.V., P. Mandal, C. Bernhard, N.N. Kovaleva, K. Pucher, J. Hemberger and A. Loidl: Phonon anomalies and electron-phonon interaction in the $\text{RuSr}_2\text{GdCu}_2\text{O}_8$ ferromagnetic superconductor: Evidence from infrared conductivity. *Physical Review B* **63**, 184505 (2001).
- Borisenko, S.V., A.A. Kordyuk, S. Legner, C. Durr, M. Knupfer, M.S. Golden, J. Fink, K. Nenkov, D. Eckert, G. Yang, S. Abell, H. Berger, L. Forro, B. Liang, A. Maljuk, C.T. Lin and B. Keimer: Estimation of matrix-element effects and determination of the Fermi surface in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ systems using angle-scanned photoemission spectroscopy. *Physical Review B* **64**, 094513 (2001).
- Branz, W., N. Malinowski and T.P. Martin: Coalescence reactions in $(\text{C}_{70})_m\text{Ir}_x$ clusters. *Journal of Chemical Physics* **114**, 2963-2966 (2001).
- Brichzin, V., J. Fleig, H.-U. Habermeier and J. Maier:
- Electrode kinetics of SOFC cathodes investigated by using geometrically defined strontium-doped lanthanum manganite microelectrodes. In: *High Temperature Materials Chemistry, Proceedings 10th International IUPAC Conference*, (Eds.) K. Hilpert et al. *Schriften des Forschungszentrums Jülich, Reihe Energietechnik/Energy Technology* **15**, Forschungszentrum Jülich, Jülich 2000, 711-714.

- Investigation of the cathodic polarization mechanism in SOFCs by means of LSM-microelectrodes. Proceedings - Electrochemical Society **2001-16**, 555-563 (2001).
- Bringmann, G., C. Günther, E.M. Peters and K. Peters*: First total synthesis of the 7,6'-coupled antifungal naphthylisoquinoline alkaloid dioncophylline B*. *Tetrahedron* **57**, 1253-1259 (2001).
- Bringmann, G., J. Hinrichs, T. Pabst, P. Henschel, K. Peters and E.M. Peters*: From dynamic to non-dynamic kinetic resolution of lactone-bridged biaryls: Synthesis of mastigophorene B. *Synthesis*, 155-167 (2001).
- Bringmann, G., J. Hinrichs, K. Peters and E.M. Peters*: Synthesis of a chiral aryl-ferrocenyl ligand, by intramolecular coupling to a biaryl-related lactone. *Journal of Organic Chemistry* **66**, 629-632 (2001).
- Bringmann, G., K. Messer, W. Saeb, E.M. Peters and K. Peters*: The absolute configuration of (+)-isoshinanolone and in situ LC-CD analysis of its stereoisomers from crude extracts. *Phytochemistry* **56**, 387-391 (2001).
- Brumm, H. and M. Jansen*: Synthesis and single crystal structure analysis of $[M(NH_3)_6]C_{60} \cdot 6NH_3$ ($M = Co^{2+}, Zn^{2+}$). *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 1433-1435 (2001).
- Brumm, H., E. Peters and M. Jansen*: Linear polymeric C_{70}^{2-} ions. *Angewandte Chemie, International Edition in English* **40**, 2069-2071 (2001).
- Bürkle, L., J. Fuchs, E. Ahlswede, W. Pletschen and J. Schmitz*: Wannier-Stark localization in InAs/(GaIn)Sb superlattice diodes. *Physical Review B* **64**, 045315 (2001).
- Buhl, M. and M. Parrinello*: Medium effects on ^{51}V NMR chemical shifts: A density functional study. *Chemistry: A European Journal* **7**, 4487-4494 (2001).
- Burghard, M. siehe Ferrer-Anglada N., J.A. Gorri; Gu, G.; Krstic, V.; Park, J.G.; Roth, S.; Sordan, R.
- Bussmann-Holder A.*: Electron-phonon interactions in ferroelectrics. *Physica C* **364**, 665-667 (2001).
- Bussmann-Holder A., A.R. Bishop, H. Buttner, T. Egami, R. Micnas and K.A. Müller*: The phase diagram of high- T_c superconductors in the presence of dynamic stripes. *Journal of Physics: Condensed Matter* **13**, L545-L551 (2001).
- Bussmann-Holder A., H. Buttner and N. Dalal*: Isotope-induced ferroelectricity. *Journal of Superconductivity* **14**, 269-272 (2001).
- Bussmann-Holder, A. and N. Dalal*: Why is there an isotope effect on T_c in hydrogen-bonded ferroelectrics upon deuteration but absent upon replacing ^{16}O by ^{18}O ? *AIP Conference Proceedings* **582**, 137-141 (2001).
- Bussmann-Holder A., N. Dalal, R.Q. Fu and R. Migoni*: High-precision ^{31}P chemical shift measurements on KH_2PO_4 type crystals: role of electronic instability in the ferroelectric transition mechanism. *Journal of Physics: Condensed Matter* **13**, L231-L237 (2001).
- Bussmann-Holder A., K.A. Müller, R. Micnas, H. Buttner, A. Simon, A.R. Bishop and T. Egami*: Theory of dynamic stripe induced superconductivity. *Journal of Physics: Condensed Matter* **13**, L169-L174 (2001).
- Bykov, A.A., G.M. Gusev, J.R. Leite, A.K. Bakarov, N.T. Moshegov, D.K. Maude, M. Cassé and J.C. Portal*: Nonzero Hall resistance in a spatially fluctuating magnetic field with zero mean. In: Proceedings of the 25th International Conference on the Physics of Semiconductors, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 817-818.
- Bykov, A.A., G.M. Gusev, J.R. Leite, N.T. Moshegov, A.K. Bakarov, A.I. Toropov, D.K. Maude and J.C. Portal*: Magnetoresistance in a stripe-shaped two-dimensional electron gas. *Physica B* **298**, 79-82 (2001).
- Bzik, S. and M. Jansen*: Preparation and characterization of bis(trichlorosilyl)phenylamine and 2,2,4,4-tetrachloro-1,3-diphenyl-[1,3,2,4]diazadisiletidine. *Zeitschrift für Naturforschung B* **56**, 164-168 (2001).

Calandra, M. and O. Gunnarsson: Saturation of electrical resistivity in metals at large temperatures. *Physical Review Letters* **87**, 266601 (2001).

Cardona, M.:

- Wolfgang Richter: His resonance as a Raman scatterer. *physica status solidi (a)* **184**, 1-10 (2001).
- Renormalization of the optical response of semiconductors by electron-phonon interaction. *physica status solidi (a)* **188**, 1209-1232 (2001).

Cardona, M. and T. Ruf: Phonon self-energies in semiconductors: anharmonic and isotopic contributions. *Solid State Communications* **117**, 201-212 (2001).

Cardona, M., T. Ruf and J. Serrano: Comment on 'Revised pine splitting of excitons in diamond'. *Physical Review Letters* **86**, 3923 (2001).

Carrillo-Cabrera W., J. Curda, K. Peters, S. Paschen, Y. Grin and H.G. von Schnering: Crystal structure of the chiral clathrate $\text{Na}_2\text{Ba}_4\text{Ge}_{25}$. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 183-184 (2001).

Carrillo-Cabrera W., M. Somer, K. Peters and H.G. von Schnering: Crystal structure of trieuropium bis(dinitridoborate), $\text{Eu}_3[\text{BN}_2]_2$. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 43-44 (2001).

Casa, D., B. Keimer, M. von Zimmermann, J.P. Hill, H.-U. Habermeier and F.S. Razavi: Unusual X-ray transport phenomena in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. *Physical Review B* **64**, 100404 (2001).

Casanova, N., E. Gheeraert, E. Bustarret, S. Koizumi, T. Teraji, H. Kanda and J. Zeman: Effect of magnetic field on phosphorus centre in diamond. *physica status solidi (a)* **186**, 291-295 (2001).

Cazayous, M., J. Groenen, J.R. Huntzinger, A. Mlayah and O.G. Schmidt: Spatial correlations and Raman scattering interferences in self-assembled quantum dot multilayers. *Physical Review B* **64**, 033306 (2001).

Chappel, E., M. Holzappel, G. Chouteau and A. Ott: Effect of diamagnetic cobalt on the exchange interactions in the layered lithium iron oxide. *Journal of Magnetism and Magnetic Materials* **226**, 652-654 (2001).

Chappel, E., Nuñez-Regueiro M.D., G. Chouteau, C. Darie, C. Delmas, V. Bianchi, D. Caurant and N. Baffier: High magnetic field study of quasi-stoichiometric $\text{Li}_{1-x}\text{Ni}_{1+x}\text{O}_2$. *Physica B* **294**, 124-127 (2001).

Chappel, E., Nuñez-Regueiro M.D., G. Chouteau, A. Sulpice and C. Delmas: Low field magnetism and cationic distribution in quasi-stoichiometric $\text{Li}_{1-x}\text{Ni}_{1+x}\text{O}_2$. *Solid State Communications* **119**, 83-87 (2001).

Chattopadhyay, A., S. Jana, D. Ghosh and E. Gmelin: Crystal-field effect on the hyperfine splittings, Mössbauer spectra and specific heat of Er^{3+} in pyrogermanate and diglycollate hosts. *Journal of Magnetism and Magnetic Materials* **224**, 153-161 (2001).

Chen, C.Q., R. Helbig, F. Engelbrecht and J. Zeman: Infrared absorption spectra of 4H silicon carbide. *Applied Physics A* **72**, 717-720 (2001).

Chen, C.Q., R. Helbig, R. Winkler, A. Wyszomolek and M. Potemski: Zeeman effect of D_1 bound exciton in 4H-SiC. *Material Science Forum* **353-356**, 361-365 (2001).

Chen, C.Q., R. Helbig, J. Zeman and A.J.L. Poulter: Zeeman spectroscopy of shallow nitrogen donor in 3C-SiC. *Physica B* **293**, 402-407 (2001).

Chen, X.J., H.Q. Lin, W.G. Yin, C.D. Gong and H.-U. Habermeier: Anisotropy of the superconducting transition temperature under uniaxial pressure. *Physical Review B* **64**, 212501 (2001).

Chen, X.J. siehe Wang, Z.H.

Cheng, S.J. and R.R. Gerhardt: Collective excitations in symmetric p-type $\text{GaAs}/\text{Al}_x\text{Ga}_{1-x}\text{As}$ quantum wells. *Physical Review B* **63**, 035314 (2001).

Chiu, P.W., G. Gu, G.T. Kim, G. Philipp, S. Roth, S.F. Yang and S. Yang: Temperature-induced change from p to n conduction in metallofullerene nanotube peapods. *Applied Physics Letters* **79**, 3845-3847 (2001).

Chiu, P.W., G.T. Kim, G. Gu, G. Philipp and S. Roth: Electrical transport through carbon nanotube junction. *AIP Conference Proceedings* **591**, 368-371 (2001).

Chiu, P.W. siehe Gu, G.

Christ, A. siehe Linden, S.

Christ, P., W. Biberacher, D. Andres, M.V. Kartsovnik, E. Balthes, H. Weiss and H. Müller: The phase diagram of α -(BEDT-TTF)₂KHg(SCN)₄ for magnetic fields almost parallel to the layers. *Synthetic Metals* **120**, 1019-1020 (2001).

Cobet, C., N. Esser, J.T. Zetter, W. Richter, P. Waltereit, O. Brandt, K.H. Ploog, S. Peters, N.V. Edwards, O.P.A. Lindquist and M. Cardona: Optical properties of wurtzite Al_xGa_{1-x}N (x < 0.1) parallel and perpendicular to the c-axis. *Physical Review B* **64**, 165203 (2001).

Contreras, S., W. Knap, E. Frayssinet, M.L. Sadowski, M. Goiran and M. Shur: High magnetic field studies of two-dimensional electron gas in a GaN/GaAlN heterostructure: Mechanisms of parallel conduction. *Journal of Applied Physics* **89**, 1251-1255 (2001).

Cornia, A., M. Affronte, A.C.D.T. Gatteschi, A.G.M. Jansen, A. Caneschi and R. Sessoli: High-field torque magnetometry for investigating magnetic anisotropy in Mn₁₂-acetate nanomagnets. *Journal of Magnetism and Magnetic Materials* **226**, 2012-2014 (2001).

Costantini, G., F. Buatier, F.B. De Mongeot, C. Borragno and U. Valbusa: Is ion sputtering always 'negative homoepitaxial deposition'? *Physical Review Letters* **86**, 838-841 (2001).

Costantini, G., S. Rusponi, F.B. De Mongeot, C. Borragno and U. Valbusa: Periodic structures induced by normal-incidence sputtering on Ag(110) and Ag(001): flux and temperature dependence. *Journal of Physics: Condensed Matter* **13**, 5875-5891 (2001).

Crichton, W.A., M. Mezouar, T. Grande, S. Stolen and A. Grzechnik: Breakdown of intermediate-range order in liquid GeSe₂ at high pressure. *Nature* **414**, 622-625 (2001).

Curda, J., E.M. Peters, W. Klein and M. Jansen: Crystal structure of silver chloride chromate (VI), Ag₃ClCrO₄. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 180-180 (2001).

Dalton, K.S.H., V.J. Hales, D.M. Symons, R.J. Nicholas, P. Gassot, D.K. Maude and J.C. Portal: Resonant LO phonon enhanced conductivity in GaAs-AlAs superlattices. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. *Springer Proceedings in Physics* **87**, Springer, Berlin 2001, 907-908.

Danylenko, O.V. and O.V. Dolgov: Nonadiabatic contribution to the quasiparticle self-energy in systems with strong electron-phonon interaction. *Physical Review B* **63**, 094506 (2001).

Das, K., D. Ghosh and E. Gmelin: Study of low temperature absorption spectra and specific heat C_p of Gd₂Ge₂O₇. *Indian Journal of Physics* **74A**, 199-201 (2000).

Dashiell, M.W., U. Denker and O.G. Schmidt: Photoluminescence investigation of phononless radiative recombination and thermal-stability of germanium hut clusters on silicon(001). *Applied Physics Letters* **79**, 2261-2263 (2001).

Debernardi, A., C. Ulrich, M. Cardona and K. Syassen: Pressure dependence of Raman linewidth in semiconductors. *physica status solidi (b)* **223**, 213-223 (2001).

Debray, F., H. Jongbloets, W. Joss, G. Martinez, E. Mossang, J.C. Picoche, A. Plante, P. Rub, P. Sala and P. Wyder: The Grenoble High Magnetic Field Laboratory as a user facility. *Physica B* **294**, 523-528 (2001).

Delon, A., R. Jost and M. Jacon: Laser induced dispersed fluorescence spectroscopy of 107 vibronic levels of NO₂ ranging from 12000 to 17600 cm⁻¹. *Journal of Chemical Physics* **114**, 331-344 (2001).

Deng, S.Q., A. Simon and J. Köhler: Another view of electron-phonon coupling revealing peak-like structures in q-space. *Physics and Chemistry of Solids* **62**, 1441-1446 (2001).

Denker, U., O.G. Schmidt, N.Y. Jin-Philipp and K. Eberl: Trench formation around and between self-assembled Ge islands on Si. *Applied Physics Letters* **78**, 3723-3725 (2001).

Desrat, W., D.K. Maude, M. Potemski, J.C. Portal, Z.R. Wasilewski, G. Hill and M.A. Pate: Resistively detected NMR in the integer and fractional quantum Hall regimes. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. *Springer Proceedings in Physics* **87**, Springer, Berlin 2001, 907-908.

Dettlaff-Weglikowska, U. and S. Roth: Simple and efficient purification of single-walled carbon nanotubes. *AIP Conference Proceedings* **591**, 171-174 (2001).

Deutschmann, R.A., W. Wegscheider, M. Rother, M. Bichler, G. Abstreiter, C. Albrecht and J.H. Smet: Quantum interference in artificial band structures. *Physical Review Letters* **86**, 1857-1860 (2001).

Diekhöner, L., H. Mortensen, A. Baurichter, E. Jensen, V.V. Petrunin and A.C. Luntz: N₂ dissociative adsorption on Ru(0001): The role of energy loss. *Journal of Chemical Physics* **115**, 9028-9035 (2001).

Diekhöner, L., H. Mortensen, A. Baurichter and A.C. Luntz: Laser assisted associative desorption of N₂ and CO from Ru(0001). *Journal of Chemical Physics* **115**, 3356-3373 (2001).

Dietsche, W. and S. Kronmüller: Anomalous interaction between electrons and nuclear spins at $\nu = 2/3$ filling of the fractional quantum Hall effect. *Physica E* **10**, 71-76 (2001).

Dietsche, W. siehe Lok, J.G.S.; Pohlt, M.

Dietzel, P.D.C. and M. Jansen: Synthesis and crystal structure determination of tetramethylammonium auride. *Journal of the Chemical Society, Chemical Communications*, 2208-2209 (2001).

Dinnebier, R.E., L. Ding, K.B. Ma, M.A. Neumann, N. Tanpipat, F.J.J. Leusen, P.W. Stephens and M. Wagner: Crystal structure of a rigid ferrocene-based macrocycle from high-resolution X-ray powder diffraction. *Organometallics* **20**, 5642-5647 (2001).

Dinnebier, R.E. siehe Tedesco, C.

Dolgoy, O.V. siehe Danylenko, O.V.; Kong, Y.

Dorfman, S., D. Fuks, A. Gordon, E. Kotomin and P. Wyder: Some nonlinear properties of ferroelectric smart materials. *Physica B* **304**, 339-347 (2001).

Dorozhkin, S.I., J.H. Smet, K. von Klitzing, V. Umansky, R.J. Haug and K. Ploog: Comparison between the compressibilities of the zero field and composite-fermion metallic states of the two-dimensional electron system. *Physical Review B* **63**, 121301 (2001).

Doye, J.P.K., D.J. Wales, W. Branz and F. Calvo: Modeling the structure of clusters of C₆₀ molecules. *Physical Review B* **64**, 235409 (2001).

Drinkuth, S., S. Groetsch, E.M. Peters, K. Peters and M. Christl: 1-Methyl-1-azacyclohexa-2,3-diene(N-B) borane - Generation and interception of an unsymmetrical isodihydropyridine. *European Journal of Organic Chemistry*, 2665-2670 (2001).

Duboc-Toia C., C. Mantel, M.N. Collomb, A.L. Barra, A. Hassan, A. Deronzier and J. Pecaut: Analysis of the structural and electronic properties of new azide and fluoride mononuclear Mn(III) complexes by high frequency EPR. *Journal of Inorganic Biochemistry* **86**, 457-457 (2001).

Dubrovskii Y.V., A. Patane, P.N. Brounkov, E.E. Vdovin, I.A. Larkin, L. Eaves, P.C. Main, D.K. Maude, J.C. Portal, D.Y. Ivanov, Y.N. Khanin, V.V. Sirotkin, A. Levin, M. Henini and G. Hill: Magneto-tunnelling spectroscopy of localised and extended state in a quantum well containing quantum dots. In: Proceedings of the 9th International Symposium on Nanostructures: Physics and Technology, St. Petersburg 2001. NCO5, 206.

Dubrovskii, Y.V., E.E. Vdovin, A. Patanè, P.N. Brounkov, I.A. Larkin, L. Eaves, P.C. Main, D.K. Maude, J.C. Portal, D.Y. Ivanov, Y.N. Khanin, V.V. Sirotkin, A. Levin, M. Henini and G. Hill: Probing the electronic properties of disordered two-dimensional systems by means of resonant tunnelling. *Nanotechnology* **12**, 1-5 (2001).

Dubrovskii, Y.V., R. Hill, V.A. Volkov, V.G. Popov, E.E. Vdovin, D.Y. Ivanov, A. Kotel'nikov, L. Eaves, P.C. Main, D.K. Maude, J.C. Portal, M. Henini, G. Hill and J.C. Maan: Peculiarities in equilibrium tunneling between disordered two-dimensional electron systems: from Fermi edge singularity to linear gap in high magnetic field. In: Proceedings of the 9th International Symposium on Nanostructures: Physics and Technology, St. Petersburg 2001. TP01, 342.

Dubrovskii, Y.V., V.A. Volkov, E.E. Vdovin, L. Eaves, P.C. Main, D.K. Maude, J.C. Portal, A. Neumann, M. Henini, J.C. Maan and G. Hill: Unconventional Landau states in the quantum well with embedded self-arranged quantum dots. In: Proceedings of the 9th International Symposium on Nanostructures: Physics and Technology, St. Petersburg 2001. QW/SL05, 262.

Düchs, G., G.L.J.A. Rikken, T. Grenet and P. Wyder: Magnetotransverse scattering of surface plasmon polaritons. *Physical Review Letters* **87**, 127402 (2001).

Duesberg, G.S., I. Loa, H.J. Byrne, K. Syassen, W. Blau and S. Roth: Raman characterisation of individual single wall nanotubes. *AIP Conference Proceedings* **591**, 308-314 (2001).

Dupont, F., F. Millange, S. De Brion and G. Chouteau: Multi-frequency ESR study on the charge-ordered manganite $\text{Nd}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$: phase separation effects?. *Journal of Magnetism and Magnetic Materials* **226**, 2004-2005 (2001).

Dupont, F., F. Millange, S. De Brion, A. Janossy and G. Chouteau: Influence of Md on the magnetic properties of $\text{Nd}_{1-x}\text{Ca}_x\text{MnO}_3$: an ESR study. *Physical Review B* **64**, 220403 (2001).

Dupre, P.: Probing molecular species by cavity ringdown laser absorption spectroscopy, application to the spectroscopy and dynamics of jet-cooled NO_2 . *Comptes Rendus de l'Academie des Sciences IV* **2**, 929-964 (2001).

Dyugaev, A.M., I.D. Vagner and P. Wyder: Nuclear ferromagnetism and superconductivity at negative nuclear temperatures. *JETP Letters* **73**, 411-414 (2001).

Eberl, K., R. Duschl, O.G. Schmidt, U. Denker and R. Haug: Si-based resonant inter- and intraband tunneling diodes. *Journal of Crystal Growth* **227**, 770-776 (2001).

Eberl, K., M.O. Lipinski, Y.M. Manz, W. Winter, N.Y. Jin-Phillipp and O.G. Schmidt: Self-assembling quantum dots for optoelectronic devices on Si and GaAs. *Physica E* **9**, 164-174 (2001).

Engering, J., E.M. Peters and M. Jansen: Dimeric Di(N-lithio-tert-butylamino)bis(dimethylamino)silane - $[\text{Si}(\text{N}(\text{CH}_3)_2)_2(\text{NLiC}(\text{CH}_3)_3)_2]_2$ - Synthesis und crystal structure. *Zeitschrift für Naturforschung B* **56**, 90-94 (2001).

Eremenko, V., V. Sirenko, Y. Shabakayeva, R. Schleser and P.L. Gammel: Magnetization and magnetostriction oscillations in a superconducting 2H-NbSe₂ single crystal. *Low Temperature Physics* **27**, 700-703 (2001).

Eremenko, V.V., V.A. Sirenko, R. Schleser and P.L. Gammel: Magnetostriction in the mixed state of superconducting 2H-NbSe₂ single crystals. *Low Temperature Physics* **27**, 305-310 (2001).

Eremin, I., P. Thalmeier, P. Fulde, R.K. Kremer, K. Ahn and A. Simon: Large magnetoresistance and critical spin fluctuations in GdI_2 . *Physical Review B* **64**, 064425 (2001).

Etrillard, J., P. Bourges, H.F. He, B. Keimer, B. Liang and C.T. Lin: Acoustic phonons in the aperiodic layered crystal of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. *Europhysics Letters* **55**, 201-207 (2001).

Feher, T., A. Janossy, G. Oszlanyi, F. Simon, B. Dabrowski, P.W. Klamut, M. Horvatic and G.V.M. Williams: Comment on 'Magnetic-field-induced low-energy spin excitations in $\text{YBa}_2\text{Cu}_4\text{O}_8$ measured by high field Gd^{3+} electron spin resonance' - Reply. *Physical Review Letters* **87**, 209702 (2001).

Ferrer-Anglada N., J.A. Gorri, J. Muster, K. Liu, M. Burghard and S. Roth: Electrical transport and AFM microscopy on V_2O_{5-x} -polyaniline nanorods. *Materials Science & Engineering C* **15**, 237-239 (2001).

Figulla-Kroschel C., J. Nuss and M. Jansen: Syntheses, crystal structures, and properties of Ln_3AuO_6 ($\text{Ln} = \text{Sm}, \text{Eu}, \text{Gd}$). *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 439-444 (2001).

Filippone, F., S. Meloni and M. Parrinello: A novel implicit Newton-Raphson geometry optimization method for density functional theory calculations. *Journal of Chemical Physics* **115**, 636-642 (2001).

Filippone, F. and M. Parrinello: Vibrational analysis from linear response theory. *Chemical Physics Letters* **345**, 179-182 (2001).

Fleck, M., A.I. Lichtenstein and A.M. Oleś: Spectral properties and pseudogap in the stripe phases of cuprate superconductors. *Physical Review B* **64**, 134528 (2001).

Fleig, J. and J. Maier: On the width of the electrochemically active region in mixed conducting solid oxide fuel cell cathodes. *Proceedings - Electrochemical Society* **2001-16**, 583-589 (2001).

Fleig, J. siehe Brichzin, V.; Guo, X.; Rodewald, S.; Spangenberg, A.

Fois, E., A. Gamba, G. Tabacchi, S. Quartieri and G. Vezzalini:

- On the collective properties of water molecules in one-dimensional zeolitic channels. *Physical Chemistry, Chemical Physics* **3**, 4158-4163 (2001).
- Water molecules in single file: First-principles studies of one-dimensional water chains in zeolites. *Journal of Physical Chemistry B* **105**, 3012-3016 (2001).

Fraisse, J., A.I. Minett, O. Jaschinski, C. Journet and S. Roth: Les nanotubes de carbone comme transducteurs electro-mecaniques. *Le Vide* **300**, 229-234 (2001).

Freytag, N., Y. Tokunaga, M. Horvatic, C. Berthier, M. Shayegan and L.P. Levy: New phase transition between partially and fully polarized quantum Hall states with charge and spin gaps at $\nu = 2/3$. *Physical Review Letters* **87**, 136801 (2001).

Freytag, N. siehe Melinte, S.

Friedrich, H.A. and J. Köhler: $[\text{PtIn}_6][\text{GaO}_4]_2$ - The first oxide containing $[\text{PtIn}_6]$ octahedra. Preparation, characterisation, and Rietveld refinement with a remark to the solid solution series $[\text{PtIn}_6][\text{GaO}_4]_{2-x}[\text{InO}_4]_x$ ($0 < x \leq 1$). *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 144-150 (2001).

Gambardella, P., M. Blanc, K. Kuhnke, K. Kern, F. Picaud, C. Ramseyer, C. Girardet, C. Barreteau, D. Spanjaard and M.C. Desjonqueres: Growth of composition-modulated Ag/Co wires on Pt(997). *Physical Review B* **64**, 045404 (2001).

Gambardella, P. and K. Kern: Ni growth on vicinal Pt(111): low temperature exchange and formation of ordered surface alloys. *Surface Science* **475**, L229-L234 (2001).

Gambardella, P., Z. Sljivancanin, B. Hammer, M. Blanc, K. Kuhnke and K. Kern: Oxygen dissociation at Pt steps. *Physical Review Letters* **87**, 056103 (2001).

Geissler, P.L., C. Dellago, D. Chandler, J. Hutter and M. Parrinello: Autoionization in liquid water. *Science* **291**, 2121-2124 (2001).

Gerhardts, R.R. and S.D.M. Zwerschke: Guiding-center picture of magnetoresistance oscillations in rectangular superlattices. *Physical Review B* **64**, 115322 (2001).

Gerhardts, R.R. siehe Cheng, S.J.; Gross, J.; Manolescu, A.; Zwerschke, S.D.M.

Gervasio, F.L., V. Schettino, S. Mangani, P. Carloni and M. Parrinello: Supraligand fine tuning of Zn-based enzymes: the case of horse liver alcohol dehydrogenase. *Journal of Inorganic Biochemistry* **86**, 233-233 (2001).

Gibson, B.J., R.K. Kremer, O. Jepsen, J.D. Garrett, R.D. Hoffmann and R. Pöttgen: Structure and chemical bonding of UAuGe. *Journal of Physics: Condensed Matter* **13**, 3123-3137 (2001).

Gibson, B.J., R. Pöttgen, W. Schnelle, B. Ouladdiaf and R.K. Kremer: Crystal and magnetic structure of antiferromagnetic HoAuGe. *Journal of Physics: Condensed Matter* **13**, 2593-2606 (2001).

Gibson, B.J. siehe Ahn, K.

Glaser, R., M. Neumann, F. Ott, E.M. Peters, K. Peters, H.G. von Schnering and W. Tochtermann: Synthesis of optically active bridged cyclopropane derivatives. *Tetrahedron* **57**, 3927-3937 (2001).

Golnik, A., A. Kudelski, J.A. Gaj, T. Ruf, T. Wojtowicz, G. Karczewski and G. Cywinski: Excitonic resonant spin-flip Raman scattering in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ multilayers. *Solid State Communications* **118**, 509-512 (2001).

Goñi, A.R., H. Siegle, K. Syassen, C. Thomsen and J.M. Wagner: Effect of pressure on optical phonon modes and transverse effective charges in GaN and AlN. *Physical Review B* **64**, 035205 (2001).

Gordeev, S.N., J.M.L. Beaujour, G.J. Bowden, B.D. Rainford, P.A.J. de Groot, R.C.C. Ward, M.R. Wells and A.G.M. Jansen: Giant magnetoresistance by exchange springs in $\text{DyFe}_2/\text{YFe}_2$ superlattices. *Physical Review Letters* **87**, 186808 (2001).

Gordon, A. and P. Wyder: Finite-size effects at diamagnetic phase transitions and in the Condon domain phase. *Physical Review B* **64**, 224427 (2001).

Greco, A. and R. Zeyher: Influence of spin fluctuations on the superconducting transition temperature and resistivity in the t - J model at large N . *Physical Review B* **63**, 064520 (2001).

Griebel, M., J.H. Smet, J. Kuhl, K. von Klitzing, D. Driscoll, C. Kadow and A.C. Gossard: Picosecond carrier dynamics in ErAs:GaAs superlattices. *OSA Trends in Optics and Photonics* **49**, 54-58 (2001).

Griesshaber, E., P. Haas, J. Thoms, A. Darjushkin, B.P. Gorshunov, M. Dressel, D. Schweitzer, R.K. Kremer, A. Golnik, C. Bernhard, M. Cardona, T. Klaus and W. Strunz: Optical properties of the organic metal $(\text{BEDT-TTF})_4[\text{Ni}(\text{dto})_2]$. *Synthetic Metals* **120**, 731-732 (2001).

Grigori'ev, P.D.: The influence of the chemical potential oscillations on the de Haas-van Alphen effect in quasi-two-dimensional compounds. *Journal of Experimental and Theoretical Physics* **92**, 1090-1094 (2001).

Grigori'ev P.D. and A.M. Dyugaev: Theory of the resonant properties of electrons localized on the surface of liquid helium. *Journal of Experimental and Theoretical Physics* **93**, 103-110 (2001).

Grössinger, R., Tellez-Blanco J.C., R.S. Turtelli, R. Hauser, K. Reiterer, H. Sassik and G. Chouteau: Determination of the magnetic viscosity in $\text{SmCo}_{5-x}\text{Cu}_x$ alloys by pulsed-field method. *Physica B* **294-295**, 194-196 (2001).

Gross, G.M., R.B. Praus, S. Yaghoubzadeh, F.S. Razavi and H.-U. Haberman: Studies of the effect of internal and hydrostatic pressure on the structure and transport properties of $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ thin films. *Journal of Alloys and Compounds* **317**, 141-144 (2001).

Gross, J. and R.R. Gerhardt: Quantum magnetotransport calculations for 2D electron systems with weak 1D modulation and anisotropic scattering. *Physica B* **298**, 83-87 (2001).

Grzechnik, A.: Lanthanide polysulfides at high pressures. *Journal of Alloys and Compounds* **317**, 190-194 (2001).

Grzechnik, A., W.A. Crichton, K. Syassen, P. Adler and M. Mezouar: A new polymorph of ZrW_2O_8 synthesized at high pressures and high temperatures. *Chemistry of Materials* **13**, 4255-4259 (2001).

Grzechnik, A., V.V. Ursaki, K. Syassen, I. Loa, I.M. Tiginyanu and M. Hanfland: Pressure-induced phase transitions in cadmium thiogallate $CdGa_2Se_4$. *Journal of Solid State Chemistry* **160**, 205-211 (2001).

Gu, G., M. Burghard, G.T. Kim, G.S. Duesberg, P.W. Chiu, V. Krstic, S. Roth and W.Q. Han: Growth and electrical transport of germanium nanowires. *Journal of Applied Physics* **90**, 5747-5751 (2001).

Gu, G., M. Burghard, G. Philipp, G.S. Duesberg, P.W. Chiu, G.T. Kim, A.I. Minett, W. Han and S. Roth: Fabrication of multiwalled carbon nanotubes on patterned electrodes. *AIP Conference Proceedings* **591**, 235-238 (2001).

Gu, G., G. Philipp, X.C. Wu, M. Burghard, A.M. Bittner and S. Roth: Growth of single-walled carbon nanotubes from microcontact-printed catalyst patterns on thin Si_3N_4 membranes. *Advanced Functional Materials* **11**, 295-298 (2001).

Gu, G. siehe Chiu, P.W.; Minett, A.I.

Gubarev, S.I., I.V. Kukushkin, S.V. Tovstonog, M.Yu. Akimov, L.V. Kulik, J. Smet, K. von Klitzing and G. Weimann: Collapse of the excitonic states at $r_s = 8$ in high quality GaAs/AlGaAs single quantum wells. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. *Springer Proceedings in Physics* **87**, Springer, Berlin 2001, 511-512.

Günther, E. and M. Jansen: Optical properties of $Ta_{3-x}Zr_xN_{5-x}O_x$ semiconductor pigments. *Materials Research Bulletin* **36**, 1399-1405 (2001).

Gunnarsson, O., K. Schönhammer, J.W. Allen, K. Karlsson and O. Jepsen: Information from photoemission spectral weights and shapes. *Journal of Electron Spectroscopy and Related Phenomena* **117**, 1-11 (2001).

Gunnarsson, O. siehe Calandra, M.

Guo, X.:

– Size dependent grain-boundary conductivity in doped zirconia. *Computational Materials Science* **20**, 168-176 (2001).

– Defect structure modification in zirconia by alumina. *physica status solidi (a)* **183**, 261-271 (2001).

Guo, X., J. Fleig and J. Maier: Separation of electronic and ionic contributions to the grain boundary conductivity in acceptor-doped $SrTiO_3$. *Journal of the Electrochemical Society* **148**, J50-J53 (2001).

Guo, X. and J. Maier: Grain boundary blocking effect in zirconia: A Schottky barrier analysis. *Journal of the Electrochemical Society* **148**, E121-E126 (2001).

Gusev, G.M., J.R. Leite, E.B. Olshanetskii, N.T. Moshegov, A.I. Toropov, D.K. Maude, M. Casse and J.C. Portal: Quantum Hall effect in a wide parabolic well. *Physica B* **298**, 306-309 (2001).

Gvozdkov, V.M.: Shubnikov-de Haas oscillations in layered conductors with stacking faults. *Low Temperature Physics* **27**, 704-708 (2001).

Haas, H. and M. Jansen:

- Na_4SeO_5 , a novel Pentaoxoselenate(VI) - Synthesis, characterisation, and comparison with Na_4MoO_5 . Zeitschrift für Anorganische und Allgemeine Chemie **627**, 755-760 (2001).
- Synthesis and characterisation of Na_5OAsO_4 . Zeitschrift für Anorganische und Allgemeine Chemie **627**, 1013-1016 (2001).
- The first hexaoxoselenate(VI) - Synthesis and characterization of $\text{Na}_{12}(\text{SeO}_6)(\text{SeO}_4)_3$. Zeitschrift für Anorganische und Allgemeine Chemie **627**, 1313-1318 (2001).
- Crystal structure of sodium oxide sulfate. Zeitschrift für Anorganische und Allgemeine Chemie **627**, 1949-1951 (2001).

Habermeier, H.-U.:

- Basic research in materials science and economic sustainable growth. In: Proceedings of the 1st Regional Conference on Magnetic and Superconducting Materials, (Eds.) M. Akhavan et al. World Scientific, Singapore 2000, 16-38.
- Conference summary superconductivity. In: Proceedings of the 1st Regional Conference on Magnetic and Superconducting Materials, (Eds.) M. Akhavan et al. World Scientific, Singapore 2000, 41-44.
- Correlation of microstructure and magnetotransport properties of epitaxially grown La-Ca-Mn-O₃ thin films. In: Proceedings of the 1st Regional Conference on Magnetic and Superconducting Materials, (Eds.) M. Akhavan et al. World Scientific, Singapore 2000, 905-918.

Habermeier, H.-U., G. Cristiani, R.K. Kremer, O. Lebedev and G. van Tendeloo: Cuprate/manganite superlattices, a model system for a bulk ferromagnetic superconductor. Physica C **364-365**, 298-304 (2001).

Habermeier, H.-U., T. Haage, A.S. Solovjov, V. Hadjev, R. Warthmann and Ch. Jooß: Anisotropic enhancement of flux pinning in Y-Ba-Cu-O thin films grown by the Stepp flow growth mode. In: Proceedings of the 1st Regional Conference on Magnetic and Superconducting Materials, (Eds.) M. Akhavan et al. World Scientific, Singapore 2000, 573-580.

Habermeier, H.-U., X. Li and P. Zhang: Evidence of anisotropic thermoelectric properties in $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$, thin films studied by laser-induced transient voltages. Materials Research Society Proceedings **602**, 125-130 (2000).

Habermeier, H.-U., R.B. Praus, G.M. Gross and F.S. Razavi: Magnetic measurements on stressed and stress relieved $\text{La}_{0.66}\text{Ca}_{0.33}\text{MnO}_3$. Materials Research Society Proceedings **602**, 225-230 (2000).

Habermeier, H.-U., H. Rogalla and Z.-X. Zhao: Materials issues for high temperature superconductor applications. Proceedings of Symposium Q of the 2000 E-MRS-IUMRS-ICEM Spring Conference. Elsevier, Amsterdam 2000, 83.

Habermeier, H.-U. siehe Brichzin, V.; Casa, D.; Chen, X.J.; Gross, G.M.; Lebedev, O.I.; Vigliante, A.; Zhang, P.X.

Hagel, J., S. Wanka, J. Wosnitza, E. Balthes, J.A. Schlueter, A.M. Kini, U. Geiser, J. Mohtasham, R.W. Winter and G.L. Gard: Two-dimensional magnetic quantum oscillations observed in an organic metal. Synthetic Metals **120**, 813-814 (2001).

Haluska, M., M. Hulman, M. Hirscher, M. Becher, S. Roth, I. Stepanek and P. Bernier: Hydrogen storage in mechanically treated single wall carbon nanotubes. AIP Conference Proceedings **591**, 603-608 (2001).

Haluska, M. siehe Hirscher, M.; Schmid, M.

Hamad, N., El-Kassab I., L. Haupt, N. Kasper, K. Barner, G.H. Rao, U. Sondermann and E. Gmelin: Magnetic and electrical properties of $\text{Nd}_{0.66}(\text{Sr}_{1-y}\text{Li}_y)_{0.34}\text{MnO}_3$ manganites. Journal of Alloys and Compounds **317**, 145-148 (2001).

Hamdani, F., A.R. Goñi, K. Syassen and R. Triboulet: Magnetoexcitons in $\text{Zn}_{0.98}\text{Mn}_{0.02}\text{Te}$ under high hydrostatic pressure. physica status solidi (b) **223**, 171-175 (2001).

Hapke-Wurst I., U. Zeitler, H. Frahm, A.G.M. Jansen, R.J. Haug and K. Pierz: Singularities in magneto-tunneling through InAs quantum dots. *physica status solidi (b)* **224**, 689-692 (2001).

Hapke-Wurst I., U. Zeitler, R.J. Haug, H. Frahm, A.G.M. Jansen and K. Pierz: Singularities in tunneling through InAs dots in high magnetic fields. *Physica B* **298**, 272-276 (2001).

Harris, J.J., K.J. Lee, D.K. Maude, J.C. Portal, T. Wang and S. Sakai: Phase diagram for the quantum Hall effect in a high-mobility AlGaIn/GaN heterostructure. *Journal of Physics: Condensed Matter* **13**, L175-L181 (2001).

Harris, J.J., K.J. Lee, T. Wang, S. Sakai, Z. Bougrioua, I. Moerman, E.J. Thrush, J.B. Webb, H. Tang, T. Martin, D.K. Maude and J.C. Portal: Relationship between classical and quantum lifetimes in AlGaIn/GaN heterostructures. *Semiconductor Science and Technology* **16**, 402-405 (2001).

Haufe, O., A. Reich, C. Möschel and M. Jansen: Preparation, isolation, and characterization of Ba@C₇₄. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 23-27 (2001).

Hauser, R., C. Kussbach, R. Grossinger, G. Hilscher, Z. Arnold, J. Kamarad, A.S. Markosyan, E. Chappel and G. Chouteau: On the metamagnetic state in Er_{1-x}T_xCo₂ (T = Y, Tm) compounds. *Physica B* **294**, 182-186 (2001).

Hayne, M., J. Maes, Y.M. Manz, O.G. Schmidt, K. Eberl and V.V. Moshchalkov: Electron and hole confinement in stacked self-assembled InP dots of different sizes. *physica status solidi (b)* **224**, 31-35 (2001).

Hayne, M., J. Maes, V.V. Moshchalkov, Y.M. Manz, O.G. Schmidt and K. Eberl: Magneto-optical study of electron occupation and hole wave functions in stacked self-assembled InP quantum dots. *Applied Physics Letters* **79**, 45-47 (2001).

He, H., Y. Sidis, P. Bourges, G.D. Gu, A. Ivanov, N. Koshizuka, B. Liang, C.T. Lin, L.P. Regnault, E. Schönherr and B. Keimer: Resonant spin excitation in an overdoped high temperature superconductor. *Physical Review Letters* **86**, 1610-1613 (2001).

He, H.F. siehe Etrillard, J.

Hebling, J., A. Stepanov, J. Seres and J. Kuhl: Time-domain investigation of phonon-polaritons in GaP. *Ferroelectrics* **249**, 99-105 (2001).

Hedin, L. and J.D. Lee: External losses in photoemission from strongly correlated quasi-two-dimensional solids. *Physical Review B* **64**, 115109 (2001).

Heifets, E., R.I. Eglitis, E.A. Kotomin, J. Maier and G. Borstel: Ab initio modeling of surface structure for SrTiO₃ perovskite crystals. *Physical Review B* **64**, 235417 (2001).

Heilliette, S., A. Delon, P. Dupre and R. Jost: High resolution spectrum of NO₂ loosely bound states: densities of states and long range forces. *Physical Chemistry, Chemical Physics* **3**, 2268-2274 (2001).

Heilliette, S., A. Delon, R. Jost, S.Y. Grebenshchikov, R. Schinke, B. Abel and J.C. Rayez: Density of loosely bound states in a triatomic molecule: The role of long range interactions. *Zeitschrift für Physikalische Chemie* **215**, 1069-1086 (2001).

Heimbrod, W., T. Hartmann, P.J. Klar, M. Lampalzer, W. Stolz, K. Volz, A. Schaper, W. Treutmann, H.A.K. von Nidda, A. Loidl, T. Ruf and V.F. Sapega: Monitoring the sign reversal of the valence band exchange integral in (Ga,Mn)As. *Physica E* **10**, 175-180 (2001).

Henry, M.O., McGlynn E., J. Fryar, S. Lindner and J. Bollmann: The evolution of point defects in semiconductors studied using the decay of implanted radioactive isotopes. *Nuclear Instruments & Methods in Physics Research B* **178**, 256-259 (2001).

Herz, H.G. siehe Schuster, M.

Hill, J.P., C.S. Nelson, M. von Zimmermann, Y.-J. Kim, D. Gibbs, D. Casa, B. Keimer, Y. Murakami, C.T. Venkataraman, T. Gog, Y. Tomioka, Y. Tokura, V. Kiryukin, T.Y. Koo and S.-W. Cheong: Orbital correlations in doped manganites. *Applied Physics A* **73**, 723-730 (2001).

Hill, R.J.A., I.E. Itskevich, S.T. Stoddart, H.M. Murphy, A.S.G. Thornton, P.C. Main, L. Eaves, M. Henini, D.K. Maude and J.C. Portal: High pressure as a tool to study electron localization. *physica status solidi (b)* **223**, 555-559 (2001).

Hirscher, M., M. Becher, M. Haluska, U. Dettlaff-Weglikowska, A. Quintel, G.S. Duesberg, Y.M. Choi, P. Downes, M. Hulman, S. Roth, I. Stepanek and P. Bernier: Hydrogen storage in sonicated carbon materials. *Applied Physics A* **72**, 129-132 (2001).

Hönnerscheid, A., L. van Wüllen, M. Jansen, J. Rahmer and M. Mehring: Dimer-formation in the bis(arene)chromium fulleride $\text{Cr}(\text{C}_7\text{H}_8)_2 \text{C}_{60}$. *Journal of Chemical Physics* **115**, 7161-7165 (2001).

Holden, T. siehe Munzar, D.; Muñoz, M.

Holleitner, A.W., C.E. Decker, H. Qin, K. Eberl and R.H. Blick: Coherent coupling of two quantum dots embedded in an Aharonov-Bohm interferometer. *Physical Review Letters* **87**, 256802 (2001).

Horsch, P. and G. Khaliullin: Density response of cuprates and renormalization of breathing phonons. In: *Open Problems in Strongly Correlated Electron Systems*, (Eds.) J. Bonca et al. Kluwer, Boston 2001, 81-90.

Horsch, P. siehe Bala, J.; Khaliullin, G.

Hünig, S., A. Langels, M. Schmittl, H. Wenner, I.F. Perepichka and K. Peters: Violine/cyanine hybrids as electrochromic systems: A new variation of the general structure. *European Journal of Organic Chemistry* **2001**, 1393-1399 (2001).

Iannuzzi, M. and L. Miglio: Surface energies and surface relaxation at TiSi_2 competing phases. *Surface Science* **479**, 201-212 (2001).

Iarlori, S., D. Ceresoli, M. Bernasconi, D. Donadio and M. Parrinello: Dehydroxylation and silanization of the surfaces of β -cristobalite silica: An ab initio simulation. *Journal of Physical Chemistry B* **105**, 8007-8013 (2001).

Ilczuk, E., K.P. Korona, A. Babinski and J. Kuhl: Dynamics of photoexcited carriers in GaInAs/GaAs quantum dots. *Acta Physica Polonica A* **100**, 379-386 (2001).

Itskevich, I.E., R.J.A. Hill, S.T. Stoddart, H.M. Murphy, A.S.G. Thornton, P.C. Main, L. Eaves, M. Henini, D.K. Maude and J.C. Portal: Natural of the localized phase in a two-dimensional electron system. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 857-858.

Ivanov, D.Y., V.A. Volkov, Y.V. Dubrovskii, E.E. Takhtamirov, E.E. Vdovin, L. Eaves, P.C. Main, M. Henini, D.K. Maude, J.C. Portal, J.C. Maan and G. Hill: Anti-crossing of Landau levels of different two-dimensional subbands in GaAs in normal magnetic field. *Physica B* **298**, 359-363 (2001).

Jamnik, J., M. Leonhardt and J. Maier: Chemical diffusion across grain boundaries: In situ observation and phenomenological modeling. *Defect and Diffusion Forum* **194-199**, 1001-1007 (2001).

Jamnik, J. and J. Maier: Generalised equivalent circuits for mass and charge transport: chemical capacitance and its implications. *Physical Chemistry, Chemical Physics* **3**, 1668-1678 (2001).

Jansen, M. siehe Adelsberger, K.; Becker, M.; Brumm, H.; Bzik, S.; Curda, J.; Dietzel, P.D.C.; Engering, J.; Figulla-Kroschel C., J. Nuss; Günther, E.; Haas, H.; Haufe, O.; Hönnerscheid, A.; Kazin, P.E.; Kessler, U.; Klein, W.; Klemp, C.; Korus, G.; Lansmann, V.; Loa, I.; Mudring, A.V.; Möschel, C.; Schreyer, M.; Schön, J.C.; Sofin, M.; Tellenbach, A.; Vegas, A.; Wevers, M.A.C.; Witschas, M.; Wüllen van, L.

Jansen, M.G.M. siehe Murzin, S.S.

Jemander, S.T., N. Lin, H.M. Zhang, R.I.G. Uhrberg and G.V. Hansson: An STM study of the surface defects of the $(\sqrt{3} \times \sqrt{3})$ -Sn/Si(111) surface. *Surface Science* **475**, 181-193 (2001).

Jepsen, O. siehe Andersen, O.K.; Gibson, B.J.; Gunnarsson, O.; Kakehashi, Y.; Kobayashi, K.; Kong, Y.; Pavarini, E.; Szotek, Z.

Jongbloets, H. siehe Debray, F.

Joss, W. siehe Debray, F.

Julien, M.H., A. Campana, A. Rigamonti, P. Carretta, F. Borsa, P. Kuhns, A.P. Reyes, W.G. Moulton, M. Horvatic, C. Berthier, A. Vietkin and A. Revcolevschi: Glassy spin freezing and NMR wipeout effect in the high- T_c superconductor $\text{La}_{1.90}\text{Sr}_{0.10}\text{CuO}_4$: Critical discussion of the role of stripes. *Physical Review B* **63**, 144508 (2001).

Kakehashi, Y., N. Kimura and O. Jepsen: Tight-binding LMTO calculations on the stability of a new multiple spin-density-wave state in γ -Fe. *Journal of Magnetism and Magnetic Materials* **226**, 394-396 (2001).

Kamp, B., R. Merkle and J. Maier: Chemical diffusion of oxygen in tin dioxide. *Sensors and Actuators B* **77**, 534-542 (2001).

Karaiskaj, D., M.L.W. Thewalt, T. Ruf, M. Cardona, H.J. Pohl, G.G. Deviatych, P.G. Sennikov and H. Riemann: Photoluminescence of isotopically purified silicon: How sharp are bound exciton transitions?. *Physical Review Letters* **86**, 6010-6013 (2001).

Karpov, A.S. siehe Kazin, P.E.

Kartsovnik, M.V., D. Andres, W. Biberacher, P. Christ, E. Steep, E. Balthes, H. Weiss, H. Müller and N.D. Kushch: B-T-P phase diagram of α -(BEDT-TTF) $_2$ KHg(SCN) $_4$. *Synthetic Metals* **120**, 687-690 (2001).

Kazin, P.E., A.M. Abakumov, D.D. Zaytsev, Y.D. Tretyakov, N.R. Khasanova and G. Van Tendeloo: Synthesis and crystal structure of $\text{Sr}_2\text{ScBiO}_6$. *Journal of Solid State Chemistry* **162**, 142-147 (2001).

Kazin, P.E., A.S. Karpov, Y.D. Tretyakov and M. Jansen: Formation of SrSnO_3 shell-like inclusions in the $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ superconductor via chemical reaction. *Solid State Sciences* **3**, 285-290 (2001).

Kazin, P.E., A.A. Kovalevskii, V.V. Poltavets, Y.D. Tretyakov and M. Jansen: Preparation of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ -matrix composites containing fine strontium calcium indate inclusions via glass crystallization. *Inorganic Materials* **37**, 1183-1187 (2001).

Kazin, P.E., Y.D. Tretyakov, V.V. Lennikov and M. Jansen: Formation of the $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ superconductor with $\text{Mg}_{1-x}\text{Cu}_x\text{O}$ inclusions: the phases compatibility and the effect of the preparation route on the material microstructure and properties. *Journal of Materials Chemistry* **11**, 168-172 (2001).

Kazin, P.E., D.D. Zaitsev, Y.D. Tretyakov and M. Jansen:

– Phase relations in the Bi-Sr-Ca-Cu-M-O (M = Y, Dy, Ho, Er, Tm, Yb, Lu) systems. *Inorganic Materials* **37**, 812-816 (2001).

– Phase relations in the Bi-(Pb)-Sr-Ca-Cu-Sc-O system. *Inorganic Materials* **37**, 1046-1050 (2001).

Keimer, B.:

– Physics - Quasi-particles survive - for now. *Science* **292**, 1498-1499 (2001).

– Spin excitations in copper oxide superconductors. In: *More is different: Fifty Years of Condensed Matter Physics*, (Eds.) N.P. Ong and R.N. Bhatt. Princeton University Press, Princeton 2001, 91-101.

Keller, M., W. Metzner and U. Schollwöck: Dynamical mean-field theory for pairing and spin gap in the attractive Hubbard model. *Physical Review Letters* **86**, 4612-4615 (2001).

Keller, M., U. Wilhelm, J. Schmid, J. Weis, K. von Klitzing and K. Eberl: Quantum dot in high magnetic fields: Correlated tunneling of electrons probes the spin configuration at the edge of the dot. *Physical Review B* **64**, 033302 (2001).

Kern, K. siehe Bonard, J.M.; Gambardella, P.; Klinke, C.; Krstic, V.; Kurt, R.; Sordan, R.; Weckesser, J.

Kessler, U. and M. Jansen:

– Crystal structure of Cesiumtetrafluorooxotellurate(IV) Cs_2TeOF_4 . *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 151-154 (2001).

– Synthesis and crystal structure of KTeOF_3 . *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 1782-1786 (2001).

Kessler, U., L. van Wüllen and M. Jansen: Structure of the fluorosulfite anion: rotational disorder of SO_2F^- in the alkali metal fluorosulfites and crystal structures of α - and β - CsSO_2F . *Inorganic Chemistry* **40**, 7040-7046 (2001).

Keyser, U.F., H.W. Schumacher, U. Zeitler, R.J. Haug and K. Eberl: Fabrication of quantum dots with scanning probe nanolithography. *physica status solidi (b)* **224**, 681-684 (2001).

Khaliullin, G.: Order from disorder: Quantum spin gap in magnon spectra of LaTiO_3 . *Physical Review B* **64**, 212405 (2001).

Khaliullin, G., P. Horsch and A.M. Oleś: Spin order due to orbital fluctuations: Cubic vanadates. *Physical Review Letters* **86**, 3879-3882 (2001).

Kienle, L.: Diffuse Streuung und Realstruktur von $\text{K}_2\text{In}_{12}\text{Se}_{19}$. *Zeitschrift für Kristallographie, Supplement* **114** (2001).

Kienle, L. and A. Simon: Microdomains and diffuse scattering in $\text{K}_2\text{In}_{12}\text{Se}_{19}$. *Journal of Solid State Chemistry* **161**, 385-395 (2001).

Kienle, L. siehe Becker, M.; Schlecht, S.; Schlosser, M.

Kim, G.T., S.H. Jhang, J.G. Park, Y.W. Park and S. Roth: Non-ohmic current-voltage characteristics in single-wall carbon nanotube network. *Synthetic Metals* **117**, 123-126 (2001).

Kim, G.T., U. Waizmann and S. Roth: Simple efficient coordinate markers for investigating synthetic nanofibers. *Applied Physics Letters* **79**, 3497-3499 (2001).

Kim, G.T. siehe Chiu, P.W.; Gu, G.; Park, J.G.; Roth, S.

Kim, S.D. siehe Shin, D.H.

Kim, S.K. siehe Shin, D.H.

Kiselev, S.I., V.V. Khmelenko, D.M. Lee, V. Kiyukin, R.E. Boltnev, E.B. Gordon and B. Keimer: Structural studies of impurity-helium solids. *Physical Review B* **65**, 024517 (2001).

Klein, W. and M. Jansen: $[\text{C}_6\text{H}_5)_3\text{P})_2\text{N}]\text{O}_3$ and $[\text{C}(\text{CH}_3)_2\text{N})_3\text{PN})_4\text{P}]\text{O}_3$, new ionic ozonides with cations suitable for phase transfer. *Zeitschrift für Naturforschung B* **56**, 287-292 (2001).

Klemp, C., M. Bruns, J. Gauss, U. Haussermann, G. Stosser, L. van Wüllen, M. Jansen and H. Schnöckel: $\text{Al}_{22}\text{Cl}_{20} \cdot 12\text{L}$ (L = THF, THP): The first polyhedral aluminum chlorides. *Journal of the American Chemical Society* **123**, 9099-9106 (2001).

Klier, J., T. Gunzler, A. Wurl, P. Leiderer, G. Mistura, E. Teske, P. Wyder and V. Shikin: Two-fraction electron system on a thin helium film. *Journal of Low Temperature Physics* **122**, 451-458 (2001).

Klinke, C., J.M. Bonard and K. Kern: Comparative study of the catalytic growth of patterned carbon nanotube films. *Surface Science* **492**, 195-201 (2001).

Klinke, C. siehe Kurt, R.

Klitzing, K. von siehe Ahlswede, E.; Albrecht, C.; Dorozhkin, S.I.; Gubarev, S.I.; Keller, M.; Kulik, L.V.; Lok, J.G.S.; Pohlt, M.; Sagol, B.E.; Schmid, J.; Smet, J.H.; Vasilyev, Yu.B.; Wilhelm, U.

Kobayashi, K., A. Fujimori, T. Ohtani, I. Dasgupta, O. Jepsen and O.K. Andersen: Electronic structure of the Chevrel-phase compounds $\text{Sn}_x\text{Mo}_6\text{Se}_{7.5}$: Photoemission spectroscopy and band-structure calculations. *Physical Review B* **63**, 195109 (2001).

Koch, E.:

- Static overscreening and nonlinear response in the Hubbard model. *Physical Review B* **64**, 165113 (2001).
- C_{60} : Supraleitung bei 52K. *Physikalische Blätter*, **57**, 16-17 (2001).
- C_{60} : Supraleitung bei 117 K, Tendenz steigend. *Physikalische Blätter* **57**, 23-24 (2001).

Koch, E. and S. Goedecker: Locality properties and Wannier functions for interacting systems. *Solid State Communications* **119**, 105-109 (2001).

Köhler, J.: Superconductivity in MgB_2 at 39 K - A sensational and curious discovery. *Angewandte Chemie, International Edition in English* **40**, 2435-2437 (2001).

Köhler, J. siehe Achary, S.N.; Deng, S.Q.; Friedrich, H.A.; Tyagi, A.K.

Kollenz, G., R. Theuer, K. Peters and E.M. Peters: Reactions of cyclic oxalyl compounds, Synthesis and thermolysis of fused 1-arylamino-pyrrolones. *Journal of Heterocyclic Chemistry* **38**, 1055-1064 (2001).

Kong, Y., O.V. Dolgov, O. Jepsen and O.K. Andersen: Electron-phonon interaction in the normal and superconducting states of MgB_2 . *Physical Review B* **64**, 020501 (2001).

Konstantinovic, M.J., M. Isobe and Y. Ueda: Charge-ordering phase transition and order-disorder effects in the Raman spectra of NaV_2O_5 . *Physical Review B* **63**, 100303 (2001).

Konuma, M. siehe Sozontov, E.; Widulle, F.

Korona, K.P., A. Babinski, J. Kuhl, J.M. Baranowski and R. Leon: Step-like photoluminescence dynamics in field-effect structures containing quantum dots. *physica status solidi (b)* **227**, 605-612 (2001).

Kortus, J. siehe Liu, A.Y.

Korus, G. and M. Jansen: Crystal structure, phase transition, and potassium ion conductivity of potassium trifluoromethanesulfonate. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 1599-1605 (2001).

Kotomin, E.A., R.I. Eglitis, J. Maier and E. Heifets: Calculations of the atomic and electronic structure for SrTiO_3 perovskite thin films. *Thin Solid Films* **400**, 76-80 (2001).

Kotomin, E.A., V. Kashcheyevs, V.N. Kuzovkov, K. Schwartz and C. Trautmann: Modeling of primary defect aggregation in tracks of swift heavy ions in LiF. *Physical Review B* **64**, 144108 (2001).

Koval, S., J. Kohanoff, R.L. Mignoni and A. Bussmann-Holder: Interplay between proton ordering and ferroelectric polarization in H-bonded KDP-type crystals. *Computational Materials Science* **22**, 87-93 (2001).

Kovaleva, N.N. siehe Boris, A.V.

Kraus, S. siehe Lok, J.G.S.

Kremer, R.K. siehe Ahn, K.; Bensch, W.; Eremin, I.; Gibson, B.J.; Griesshaber, E.; Habermeier, H.-U.; Kunc, K.; Loa, I.; Mattausch, H.; Müllmann, R.; Plakhty, V.P.; Prokofiev, A.V.; Schnelle, W.; Smith, T.J.; Stolovits, A.; Vajenine, G.V.

Kreuer, K.D.: On the development of proton conducting polymer membranes for hydrogen and methanol fuel cells. *Journal of Membrane Science* **185**, 29-39 (2001).

Kreuer, K.D., S. Adams, W. Münch, A. Fuchs, U. Klock and J. Maier: Proton conducting alkaline earth zirconates and titanates for high drain electrochemical applications. *Solid State Ionics* **145**, 295-306 (2001).

Kreuer, K.D. siehe Münch, W.; Pfitzner, A.; Schuster, M.

Krstic, V., S. Roth, M. Burghard and K. Kern: Carbon nanotubes in the coulomb-blockade regime connected to superconducting leads. *AIP Conference Proceedings* **591**, 405-408 (2001).

Krstic, V. siehe Gu, G.; Park, J.G.; Roth, S.

Krüger, D., H. Fuchs, R. Rousseau, D. Marx and M. Parrinello: Interaction of short-chain alkane thiols and thiolates with small gold clusters: Adsorption structures and energetics. *Journal of Chemical Physics* **115**, 4776-4786 (2001).

Kuhl, J. siehe Hebling, J.; Ilczuk, E.; Korona, K.P.; Linden, S.; Luo, L.; Nielsen, N.C.; Stepanov, A.G.; Stevens, T.E.; Zhang, P.X.; Zhou, J.Y.

Kuhnke, K. siehe Gambardella, P.

Kulik, L.V., I.V. Kukushkin, V.E. Kirpichev, J.H. Smet, K. von Klitzing, V. Umansky and W. Wegscheider: Cyclotron spin-wave in the 2D electron system. *JETP Letters* **74**, 270-273 (2001).

Kulik, L.V., I.V. Kukushkin, V.E. Kirpichev, J.H. Smet, K. von Klitzing and W. Wegscheider: Spin-flip inelastic light scattering of excitations from partially filled Landau level. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. *Springer Proceedings in Physics* **87**, Springer, Berlin 2001, 1003-1004.

Kulik, L.V., I.V. Kukushkin, V.E. Kirpichev, K. von Klitzing and K. Eberl: Modification of the intersubband excitation spectrum in a two-dimensional electron system under a perpendicular magnetic field. *Physical Review Letters* **86**, 1837-1840 (2001).

Kulik, L.V., I.V. Kukushkin, V.E. Kirpichev, J.H. Smet, K. von Klitzing and W. Wegscheider: Cyclotron spin-flip excitations in the extreme quantum limit. *Physical Review B* **63**, 201402 (2001).

Kulik, L.V. siehe Gubarev, S.I.

Kunc, K., I. Loa, K. Syassen, R.K. Kremer and K. Ahn: MgB_2 under pressure: phonon calculations, Raman spectroscopy, and optical reflectance. *Journal of Physics: Condensed Matter* **13**, 9945-9962 (2001).

Kurt, R., C. Klink, J.-M. Bonard, K. Kern and A. Karimi: Tailoring the diameter of decorated C:N nanotubes by temperature variations using HF-CVD. *Carbon* **39**, 2163-2172 (2001).

Kuzovkov, V.N., A.I. Popov, E.A. Kotomin, M.A. Monge, R. Gonzalez and Y. Chen: Kinetics of nanocavity formation based on F-center aggregation in thermochemically reduced MgO single crystals. *Physical Review B* **64**, 064102 (2001).

Kvon, Z.D., E.B. Olshanetskii, A.Y. Plotnikov, M. Cassé, D.K. Maude, J.C. Portal, J.L. Gauffier and A.I. Toropov: Small size gated gallistic interferometer on the basis AlGaAs/GaAs heterostructure. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. *Springer Proceedings in Physics* **87**, Springer, Berlin 2001, 1819-1820.

Kvon, Z.D., E.B. Olshanetsky, M. Casse, A.Y. Plotnikov, D.K. Maude, J.C. Portal and A.I. Toropov: IQHE and FQHE in a wire with incompressible and compressible strips. *Physica B* **298**, 155-158 (2001).

Laforge, C., D. Passerone, A.B. Harris, P. Lambin and E. Tosatti: Two-stage rotational disordering of a molecular crystal surface: C_{60} . *Physical Review Letters* **87**, 085503 (2001).

Lansmann, V. and M. Jansen: Application of the glass-ceramic process for the fabrication of whisker reinforced celsian-composites. *Journal of Materials Science* **36**, 1531-1538 (2001).

Lastras-Martinez, L.F., D. Rönnow, P.V. Santos, M. Cardona and K. Eberl: Optical anisotropy of (001)-GaAs surface quantum wells. *Physical Review B* **64**, 245303 (2001).

Lawton, D.N., A. Nogaret, S.J. Bending, D.K. Maude, J.C. Portal and M. Henini:

– Suppression of electron channelling in microscopic magnetic waveguides. *Physical Review B* **64**, 033312 (2001).

– Resistance resonance through magnetic edge states. In: Proceedings of the 25th International Conference on the Physics of Semiconductors, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 903-904.

Lebedev, O.I., G. Van Tendeloo, S. Amelinckx, F. Razavi and H.-U. Habermeier: Periodic microtwinning as a possible mechanism for the accommodation of the epitaxial film-substrate mismatch in the $La_{1-x}Sr_xMnO_3/SrTiO_3$ system. *Philosophical Magazine A* **81**, 797-824 (2001).

Lebedev, O.I., J. Verbeeck, G. Van Tendeloo, S. Amelinckx, F.S. Razavi and H.-U. Habermeier: Structure and microstructure of $La_{1-x}Sr_xMnO_3$ ($x=0.16$) films grown on a $SrTiO_3$ (110) substrate. *Philosophical Magazine A* **81**, 2865-2884 (2001).

Lee, K.J., J.J. Harris, A.J. Kent, T. Wang, S. Sakai, D.K. Maude and J.C. Portal: Investigation of phonon emission processes in an AlGaIn/GaN heterostructure at low temperatures. *Applied Physics Letters* **78**, 2893-2895 (2001).

Lee, K.J., J.J. Harris, T. Wang, S. Sakai, Z. Bougrioua, I. Moerman, E.J. Thrush, J.B. Webb, H. Tang, T. Martin, D.K. Maude and J.C. Portal: Relationship between classical and quantum lifetimes in AlGaIn/GaN heterostructures. *Semiconductors Science and Technology* **16**, 402-404 (2001).

Leonhardt, S. siehe Albrecht, J.

Li, C.S., A. Sulpice, D. Bourgault, E. Mossang, H.L. Zheng, Y.F. Wu, P.X. Zhang and L. Zhou: Effect of $CaCuO_2$ addition to precursors on I_c and I_c -H behaviours of Bi-2223/Ag tapes fabricated by the two-powder process. *Physica C* **354**, 454-457 (2001).

Liang, B., I. Kleinschroth and H. Kronmüller: Effect of Ga substitution on the magnetocrystalline anisotropy of arc-melted $Sm_2Co_{17-x}Ga_x$ ($x=5, 6$) compounds. *Journal of Applied Physics* **89**, 488-491 (2001).

Liang, B., A. Maljuk and C.T. Lin: Growth of large superconducting $Bi_{2+x}Sr_{2-y}CuO_{6+\delta}$ single crystals by travelling solvent floating zone method. *Physica C* **361**, 156-164 (2001).

Liang, B. siehe Borisenko, S.V.; Etrillard, J.; He, H.; Lin, C.T.; Maljuk, A.

Limburg, J., J.S. Vrettos, R.H. Crabtree, G.W. Brudvig, J.C. de Paula, A. Hassan, A.L. Barra, C. Duboc-Toia and M.N. Collomb: High-frequency EPR study of a new mononuclear manganese(III) complex: $[(\text{terpy})Mn(N_3)_3]$ (terpy = 2,2':6',2''-terpyridine). *Inorganic Chemistry* **40**, 1698-1703 (2001).

Lin, C.T., B. Liang, C. Ulrich and C. Bernhard: Single crystals of $RuSr_2GdCu_2O_{8-\delta}$. *Physica C* **364**, 373-375 (2001).

Lin, C.T. siehe Barba, D.; Borisenko, S.V.; Etrillard, J.; He, H.; Liang, B.; Maljuk, A.; Serrano, J.

Lin, N. siehe Jemander, S.T.

Linden, S., A. Christ, J. Kuhl and H. Giessen: Selective suppression of extinction within the plasmon resonance of gold nanoparticles. *Applied Physics B* **73**, 311-316 (2001).

Linden, S., J. Kuhl and H. Giessen:

- Controlling the interaction between light and gold nanoparticles: Selective suppression of extinction. *Physical Review Letters* **86**, 4688-4691 (2001).
- Controlling the interaction between light and gold nanoparticle arrays. *OSA Trends in Optics and Photonics* **57**, 174-175 (2001).

Linden, S. siehe Nielsen, N.C.

Liu, A.Y., I.I. Mazin and J. Kortus: Beyond Eliashberg superconductivity in MgB₂: Anharmonicity, two-phonon scattering, and multiple gaps. *Physical Review Letters* **87**, 087005 (2001).

Loa, I., P. Adler, A. Grzechnik, K. Syassen, U. Schwarz, M. Hanfland, G.K. Rozenberg, P. Gorodetsky and M.P. Pasternak: Pressure-induced quenching of the Jahn-Teller distortion and insulator-to-metal transition in LaMnO₃. *Physical Review Letters* **87**, 125501 (2001).

Loa, I., M. Divis, V. Nekvasil, S. Jandl, K. Syassen, A.A. Nugroho and A.A. Menovsky: Raman study of crystal field excitations in Nd₂CuO₄ under pressure. *Physical Review B* **64**, 214106 (2001).

Loa, I., S. Gronemeyer, C. Thomsen and R.K. Kremer: Isotope effects in CuGeO₃ studied by Raman spectroscopy. *Solid State Communications* **117**, 279-283 (2001).

Loa, I., A. Grzechnik, U. Schwarz, K. Syassen, M. Hanfland and R.K. Kremer: Vanadium oxides V₂O₅ and NaV₂O₅ under high pressures: Structural, vibrational, and electronic properties. *Journal of Alloys and Compounds* **317**, 103-108 (2001).

Loa, I., C. Möschel, A. Reich, W. Assenmacher, K. Syassen and M. Jansen: Novel graphitic spheres: Raman spectroscopy at high pressures. *physica status solidi (b)* **223**, 293-298 (2001).

Loa, I. and K. Syassen: Calculated elastic and electronic properties of MgB₂ at high pressures. *Solid State Communications* **118**, 279-282 (2001).

Loa, I. siehe Duesberg, G.S.; Grzechnik, A.; Kunc, K.; Möschel, C.; Takemura, K.; Vegas, A.; Venkateswaran, U.D.; Ves, S.

Lok, J.G.S., S. Kraus, M. Pohl, W. Dietsche, K. von Klitzing, W. Wegscheider and M. Bichler:

- Spin effects in the magnetodrag between double quantum wells. *Physical Review B* **63**, 041305 (2001).
- Spin effects in the magnetodrag. In: Proceedings of the 25th International Conference on the Physics of Semiconductors, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 893-894.

Lok, J.G.S., S. Kraus, M. Pohl, K. Güven, W. Dietsche, K. von Klitzing, W. Wegscheider and M. Bichler: Spin anomalies in the magnetodrag between double layer 2DEGs. *Physica B* **298**, 135-141 (2001).

Luo, L., L. Chen, Z.R. Qiu, X.Y. Yu, D.C. Dai, J.Y. Zhou and J. Kuhl: Measurement of femtosecond resonant nonlinear refraction in Nd: YVO₄ by degenerate pump-probe spectroscopy. *Journal of Applied Physics* **89**, 8342-8344 (2001).

Lynass, M. siehe Pohl, M.

Maier, J.:

- Funktion durch Fehler oder die innere Chemie fester Stoffe. Nordrhein-Westfälische Akademie der Wissenschaften: Vorträge N **451**, 5-23 (2000).
- Kinetik der Zusammensetzungsänderung in ionischen Festkörpern: Sauerstoffeinbau in Oxide und die Rolle der Phasengrenzen. In: Festkörperreaktionen - Transport, Mechanismen und die Rolle von Phasengrenzen, (Eds.) J. Heydenreich, H. Schmalzried. Nova Acta Leopoldina, **NF 83**, Nr. 317, Barth, Heidelberg 2000, 29-46.

- Ionic and electronic carriers in solids - physical and chemical views of the equilibrium situation. *Solid State Ionics* **143**, 17-23 (2001).
- Acid-base centers and acid-base scales in ionic solids. *Chemistry - A European Journal* **7**, 4762-4770 (2001).
- Zur Kinetik des Forschungsbetriebes. *Bunsenmagazin* **4**, 85 (2001).

Maier, J. siehe Brichzin, V.; Fleig, J.; Guo, X.; Heifets, E.; Jamnik, J.; Kamp, B.; Kotomin, E.A.; Kreuer, K.D.; Merkle, R.; Münch, W.; Raz, S.; Rodewald, S.; Schuster, M.; Spangenberg, A.

Maksimov, E.G. and D.Y. Savrasov: Lattice stability and superconductivity of the metallic hydrogen at high pressure. *Solid State Communications* **119**, 569-572 (2001).

Malinowski, N. siehe Branz, W.

Maljuk, A., B. Liang, C.T. Lin and G.A. Emelchenko: On the growth of overdoped Bi-2212 single crystals under high oxygen pressure. *Physica C* **355**, 140-146 (2001).

Maniv, T., Y.A. Bychkov, I.D. Vagner and P. Wyder: Fast incomplete, decoherence of nuclear spins in a quantum Hall ferromagnet. *Physical Review B* **64**, 193306 (2001).

Maniv, T., V. Zhuravlev, I.D. Vagner and P. Wyder: Vortex states and quantum magnetic oscillations in conventional type-II superconductors. *Review of Modern Physics* **73**, 867-911 (2001).

Manjón, F.J., S. Jandl, K. Syassen and J.Y. Gesland: Effect of pressure on crystal-field transitions of Nd-doped YLiF₄. *Physical Review B* **64**, 235108 (2001).

Manjón, F.J., J. Serrano, I. Loa, K. Syassen, C.T. Lin and M. Cardona:

- Effect of pressure on the anomalous Raman spectrum of CuBr. *physica status solidi (b)* **223**, 331-336 (2001).
- Effect of pressure on the Raman anomaly of zinc-blende CuBr and Raman spectra of high-pressure phases. *Physical Review B* **64**, 064301 (2001).

Manolescu, A., R.R. Gerhardt, M. Suhrke and U. Rössler: Anisotropic scattering and quantum magneto-resistivities of a periodically modulated two-dimensional electron gas. *Physical Review B* **63**, 115322 (2001).

Martin, M.D., S. Burgas, M. Alonso, L. Vina, F.J. Teran, M. Potemski and E.E. Mendez: Polarization of magneto-polaritons in a semiconductor microcavity. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. *Springer Proceedings in Physics* **87**, Springer, Berlin 2001, 671-672.

Martin, T.P. siehe Harris, J.J.; Lee, K.J.; Branz, W.; Wang, G.M.

Martonak, R., C. Molteni and M. Parrinello: A new constant-pressure ab initio/classical molecular dynamics method: simulation of pressure-induced amorphization in a Si₃₅H₃₆ cluster. *Computational Materials Science* **20**, 293-299 (2001).

Marx, W.: *Angewandte Chemie in light of the Science Citation Index*. *Angewandte Chemie, International Edition in English* **40**, 139-143 (2001).

Marx, W. and H. Schier: Zitierungszahlen – eine Messlatte zur Bewertung von Forschungsqualität? *Physikalische Blätter* **57**, 25-29 (2001).

Marx, W., H. Schier and M. Wanitschek: Citation analysis using online databases: Feasibilities and shortcomings. *Scientometrics* **52**, 59-82 (2001).

Mattausch, H.J., O. Oeckler, C. Zheng and A. Simon: Condensed Al₆ rings in the subiodides La₃Al₂I₂ and La₂Al₂I. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 1523-1531 (2001).

Mattausch, Hj., G.V. Vajenine, O. Oeckler, R.K. Kremer and A. Simon: Tb₁₆Br₂₃B₄: Tetrameric terbium clusters with endohedral boron atoms. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 2542-2546 (2001).

Mattausch, Hj. siehe Ahn, K.; Oeckler, O.; Zheng C.

Maude, D.K., L.B. Rigal, W. Desrat, M. Potemski, J.C. Portal, L. Eaves, Z.R. Wasilewski, A.I. Toropov and G. Hill: Breakdown of the quantum Hall effect. *Acta Physica Polonica A* **100**, 213-226 (2001).

Meden, V., W. Metzner, U. Schollwöck and K. Schönhammer: Inhomogeneous Luttinger Liquids: Power-laws and energy scales. In: *Open Problems in Strongly Correlated Electron Systems*, (Eds.) J. Bonca et al. Kluwer, Boston 2001, 283-292.

Meduna, M., V. Holy, T. Roch, G. Bauer, O.G. Schmidt and K. Eberl: X-ray reflectivity from self-assembled structures in Ge/Si superlattices. *Journal of Physics D* **34**, A193-A196 (2001).

Mekmouche, Y., S. Ménage, C. Duboc-Toia, M. Fontecave, J.B. Galey, C. Lebrun and J. Pécaut: 3-H₂O₂-dependent Fe-catalyzed oxidations: control of the active species. *Angewandte Chemie, International Edition in English* **40**, 949-952 (2001).

Melinte, S., N. Freytag, M. Horvatic, C. Berthier, L.P. Levy, V. Bayot and M. Shayegan: Spin polarization of two-dimensional electrons in GaAs quantum wells around Landau level filling $\nu = 1$ from NMR measurements of gallium nuclei. *Physical Review B* **64**, 085327 (2001).

Meregalli, V. and M. Parrinello:

- Review of theoretical calculations of hydrogen storage in carbon-based materials. *Applied Physics A: Materials Science & Processing* **72**, 143-146 (2001).
- An anomalous alloy: Y_xSi_{1-x}. *Solid State Communications* **117**, 441-444 (2001).

Merino, J. and R.H. McKenzie: Superconductivity mediated by charge fluctuations in layered molecular crystals. *Physical Review Letters* **87**, 237002 (2001).

Merkle, R., R.A. De Souza and J. Maier: Optically tuning the rate of stoichiometry changes: Surface-controlled oxygen incorporation into oxides under UV irradiation. *Angewandte Chemie, International Edition in English* **40**, 2126-2129 (2001).

Merkle, R. siehe Kamp, B.

Metzner, W.: Renormalization group analysis of a two-dimensional interacting electron system. *International Journal of Modern Physics A* **16**, 1889-1898 (2000)

Metzner, W. siehe Keller, M.; Meden, V.; Pruschke, Th.; Rohe, D.

Millet, P., B. Bastide, V. Pashchenko, S. Gnatchenko, V. Gapon, Y. Ksari and A. Stepanov: Syntheses, crystal structures and magnetic properties of francisite compounds Cu₃Bi(SeO₃)₂O₂X (X = Cl, Br and I). *Journal of Materials Chemistry* **11**, 1152-1157 (2001).

Minett, A.I., J. Fraysse, G. Gu and S. Roth: Practical considerations for the demonstration of a single-walled carbon nanotube actuator. *AIP Conference Proceedings* **591**, 585-589 (2001).

Minett, A.I. siehe Atkinson, K.S.; Fraisse, J.; Gu, G.

Mironov, Y.V., O. Oeckler, A. Simon and V.E. Fedorov: New types of complexes based on Re₄ chalcocyanide clusters - Syntheses and crystal structures of [Ni(NH₃)₅]₂[Re₄Te₄(CN)₁₂] · 3.4 H₂O and [Cd(NH₃)₅][Cd(NH₃)₃][Re₄Te₄(CN)₁₂] · 4 H₂O. *European Journal of Inorganic Chemistry* **2001**, 2751-2753 (2001).

Möschel, C., A. Reich, W. Assenmacher, I. Loa and M. Jansen: Onion-like marbles and bats: new morphological forms of carbon. *Chemical Physics Letters* **335**, 9-16 (2001).

Molteni, C., I. Frank and M. Parrinello: Modelling photoreactions in proteins by density functional theory. *Computational Materials Science* **20**, 311-317 (2001).

Molteni, C., R. Martonak and M. Parrinello: First principles molecular dynamics simulations of pressure-induced structural transformations in silicon clusters. *Journal of Chemical Physics* **114**, 5358-5365 (2001).

Montoya, E., L. Vina, A. Wyszomolek, M. Potemski and L.E. Bausa: Modulation of the Yb³⁺ to Er³⁺ energy transfer in LiNbO₃ crystals by applying magnetic field. *Journal of Alloys and Compounds* **323-324**, 334-336 (2001).

Mortensen, J.J. and M. Parrinello: Localized non-orthogonal orbitals in silicon. *Journal of Physics: Condensed Matter* **13**, 5731-5741 (2001).

Mozyrsky, D., V. Privman and I.D. Vagner: Nuclear-spin qubit dephasing time in the integer quantum Hall effect regime. *Physical Review B* **63**, 085313 (2001).

Mudring, A.V. and M. Jansen:

- Synthesis and crystal structure of Cs₃AuO₂. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 77-80 (2001).
- Synthesis, crystal structure, and properties of Na₂RbAuO₂. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 135-138 (2001).
- Syntheses and crystal structures of Rb₄Br₂O and Rb₆Br₄O. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 1606-1610 (2001).
- Crystal structure of cesium rubidium auride oxide, Cs₂RbAuO. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 325-325 (2001).
- Crystal structure of sodium aurate(III), NaAuO₂. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 326-326 (2001).
- Preparation and crystal structure of Cs₆Cl₄O. *Zeitschrift für Naturforschung B* **56**, 209-212 (2001).
- Rb₈AlO₄Au₃ ≡ Rb₅AlO₄ · 3 RbAu - an aluminate auride. *Zeitschrift für Naturforschung B* **56**, 433-436 (2001).

Müllmann, R., U. Ernet, B.D. Mosel, H. Eckert, R.K. Kremer, R.D. Hoffmann and R. Pöttgen: A ¹¹⁹Sn and ¹⁵¹Eu Mössbauer spectroscopic, magnetic susceptibility, and electrical conductivity investigation of the stannides EuT₂Sn (T = Cu, Pd, Ag, Pt). *Journal of Materials Chemistry* **11**, 1133-1140 (2001).

Münch, W., K.D. Kreuer, W. Silvestri, J. Maier and G. Seifert: The diffusion mechanism of an excess proton in imidazole molecule chains: first results of an ab initio molecular dynamics study. *Solid State Ionics* **145**, 437-443 (2001).

Muñoz, M., F.H. Pollak and T. Holden:

- Comment on 'Modelling the optical constants of GaAs: excitonic effects at E₁, E₁ + Δ₁ critical points'. *Semiconductor Science and Technology* **16**, 281-282 (2001).
- Comment on 'Photorefectance study in the E₁+Δ₁ transition regions of CdTe'. *Journal of Applied Physics* **89**, 3070-3070 (2001).

Munzar, D., C. Bernhard, T. Holden, A. Golnik, J. Humlicek and M. Cardona: Correlation between the Josephson coupling energy and the condensation energy in bilayer cuprate superconductors. *Physical Review B* **64**, 024523 (2001).

Murzin, S.S., M. Weiss, M.G.M. Jansen and K. Eberl: Hopping conductivity in heavily doped n-type GaAs layers in the quantum Hall effect regime. *Physical Review B* **64**, 233309 (2001).

Muster, J. siehe Ferrer-Anglada N., J.A. Gorri; Roth, S.

Nachtwei, G., A. Manolescu, N. Nestle and H. Künzel:

- Bistable resistance switching in a ferromagnetic quantum Hall system induced by exchange enhancement of the Zeeman energy. *Physical Review B* **63**, 045306 (2001).
- Bistable resistance transition in a ferromagnetic quantum Hall system. In: Proceedings of the 25th International Conference on the Physics of Semiconductors, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 997-998.

Naidyuk, Y.G., O.E. Kvitnitskaya, A.G.M. Jansen, P. Wyder, C. Geibel and A.A. Menovsky: Magnetic state in URu₂Si₂, UPd₂Al₃, and UNi₂Al₃ probed by point contacts. *Low Temperature Physics* **27**, 493-496 (2001).

Nash, G.R., S.J. Bending, M. Riek and K. Eberl: Commensurate and rosette-shaped electron orbits probed by surface acoustic wave attenuation. *Physical Review B* **63**, 113316 (2001).

Nekvasil, V., S. Jandl, D. Barba, A.A. Martin, M. Cardona, M. Divis, M. Marysko and T. Wolf: Crystal field effect on the f-levels of R_{1+x}Ba_{2-x}Cu₃O_{6+δ} (R = Sm, Nd). *Journal of Magnetism and Magnetic Materials* **226**, 985-987 (2001).

Nekvasil, V., S. Jandl, M. Cardona, M. Divis and A.A. Nugroho: 4f-levels in rare earth cuprates: Crystal field and exchange interaction. *Journal of Alloys and Compounds* **323**, 549-553 (2001).

Nelson, C.S., M. von Zimmermann, Y.J. Kim, J.P. Hill, D. Gibbs, V. Kiryukhin, T.Y. Koo, S.W. Cheong, D. Casa, B. Keimer, Y. Tomioka, Y. Tokura, T. Gog and C.T. Venkataraman: Correlated polarons in dissimilar perovskite manganites. *Physical Review B* **64**, 174405 (2001).

Nielsen, N.C., S. Linden, J. Kuhl, J. Förstner, A. Knorr, S.W. Koch and H. Giessen: Coherent nonlinear pulse propagation on a free-exciton resonance in a semiconductor. *Physical Review B* **64**, 245202 (2001).

Nielsen, N.C., S. Linden, J. Kuhl and H. Giessen: Influence of exciton-phonon scattering on self-induced transmission in semiconductors. *OSA Trends in Optics and Photonics* **57**, 48-49 (2001).

Nuñez-Regueiro M.D. and C. Lacroix: Origin and pressure dependence of ferromagnetism in A₂Mn₂O₇ pyrochlores (A = Y, In, Lu, and Tl). *Physical Review B* **63**, 014417 (2001).

Oeckler, O., J. Bauer, Hj. Mattausch and A. Simon: On the crystal structure of the phase La₅B₂C₆. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 779-788 (2001).

Oeckler, O., C. Jardin, Hj. Mattausch, A. Simon, J.F. Halet, J.Y. Saillard and J. Bauer: Synthesis, characterization, structural and theoretical analysis of a new rare-earth boride carbide: Lu₃BC₃. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 1389-1394 (2001).

Oeckler, O. siehe Mattausch, H.; Mironov, Y.V.; Oesterreich, K.; Zheng, C.

Oesterreich, K., D. Spitzner, O. Oeckler and A. Simon: Crystal structure of 3-hydroxy-8-methyltricyclo[5.3.1.0^{3,8}] undec-5-en-2-one, C₁₂H₁₆O₂. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 293-294 (2001).

Oleś, A.M. and L.F. Feiner: Orbital order versus orbital liquid in doped Manganites. In: *Band-Ferromagnetism: Ground-State and Finite-Temperature Phenomena*, (Eds.) K. Baberschke et al. Springer, New York 2001, 226-240.

Oudovenko, V.S. and S. Savrasov: Linear-response calculation of dynamical spin susceptibility in doped CaCuO₂. *Physical Review B* **63**, 132401 (2001).

Over, H., A.P. Seitsonen, E. Lundgren, M. Wiklund and J.N. Andersen: Spectroscopic characterization of catalytically active surface sites of a metallic oxide. *Chemical Physics Letters* **342**, 467-472 (2001).

Park, J.G., G.T. Kim, V. Krstic, B. Kim, S.H. Lee, S. Roth, M. Burghard and Y.W. Park: Nanotransport in polyacetylene single fiber: Toward the intrinsic properties. *Synthetic Metals* **119**, 53-56 (2001).

Park, J.G., G.T. Kim, V. Krstic, S.H. Lee, B. Kim, S. Roth, M. Burghard and Y.W. Park: Gating effect in the I-V characteristics of iodine doped polyacetylene nanofibers. *Synthetic Metals* **119**, 469-470 (2001).

Park, J.G., G.T. Kim, J.H. Park, H.Y. Yu, G. McIntosh, V. Krstic, S.H. Jhang, B. Kim, S.H. Lee, S.W. Lee, M. Burghard, S. Roth and Y.W. Park: Quantum transport in low-dimensional organic nanostructures. *Thin Solid Films* **393**, 161-167 (2001).

Parrinello, M.: Action-derived molecular dynamics in the study of rare events. Abstracts of Papers of the American Chemical Society **221**, U248-U248 (2001).

Pashchenko, V.A., A. Sulpice, F. Mila, P. Millet, A. Stepanov and P. Wyder: Pseudo-gap and possible spin-Peierls transition in the vanadium oxide VOSe_2O_4 . *European Physical Journal B* **21**, 473-476 (2001).

Passerone, D. and M. Parrinello: Action-derived molecular dynamics in the study of rare events. *Physical Review Letters* **87**, 108302 (2001).

Passerone, D., U. Tartaglino, F. Ercolessi and E. Tosatti: Surface molecular dynamics simulation with two orthogonal surface steps: how to beat the particle conservation problem. *Surface Science* **482**, 418-423 (2001).

Patonay, T., W. Adam, A. Levai, P. Kover, M. Nemeth, E.M. Peters and K. Peters: Chemo- and diastereoselectivity in the dimethyldioxirane oxidation of 2,3-dihydro-4H-1-benzothiopyran-4-ones and 4H-1-benzothiopyran-4-ones. Unusual reactivity of 4H-1-benzothiopyran-4-one 1-oxides. *Journal of Organic Chemistry* **66**, 2275-2280 (2001).

Pavarini, E., I. Dasgupta, T. Saha-Dasgupta, O. Jepsen and O.K. Andersen: Band-structure trend in hole-doped cuprates and correlation with $T_{c\text{max}}$. *Physical Review Letters* **87**, 047003 (2001).

Peters, E.M., K. Peters, S. Groetsch and M. Christl: Crystal structure of $(1\alpha,2\beta,8\alpha)$ -2-methyl-8-phenyl-2-azabicyclo[4.2.0]oct-5-ene(N-B)boran, $(\text{C}_6\text{H}_5)\text{C}_7\text{H}_9\text{N}(\text{CH}_3)(\text{BH}_3)$. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 121-122 (2001).

Peters, E.M., K. Peters, J. Hinrichs and G. Bringmann: Crystal structure of N,N-diisopropyl 2-iodoferrocenecarboxamide, $(\text{C}_5\text{H}_5)\text{Fe}(\text{C}_5\text{H}_3\text{I})(\text{C}_7\text{H}_{14}\text{NO})$. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 221-222 (2001).

Peters, E.M., K. Peters, C.P. Librera and W. Adam: Crystal structure of $(3\alpha,8\alpha,13\alpha\beta)$ -3a,4,8a,9,13a,14-hexamethyl-1,2,3,3a,6,7,8,8a,11,12,13,13a-tris(cyclopenta[4,5:4',5':4'',5'']pyrazolo [1,5-a:1',5'-c:1'',5''-e] triazine, $\text{C}_{24}\text{H}_{36}\text{N}_6$. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 123-125 (2001).

Peters, E.M., K. Peters, C. Meints and W. Tochtermann: Crystal structure of $(\text{pM}^*, \text{pM}^*)$ -(+/-)-bi-(dimethyl-3,6-decanooxepine-4,5-dicarboxylate), $[\text{C}_6\text{HO}(\text{CH}_2)_{10}(\text{COOCH}_3)_2]_2$. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 305-306 (2001).

Peters, E.M., K. Peters, I. Michieletto, F. Fabris and O. De Lucchi: Crystal structure of (2RS)-2exo-[1R2S-isopropyl-5R-methylcyclohexyloxy]-2-endo,3exo-dihydroxymethyl-bicyclo[2.2.1]hept-5-ene, $(\text{CH}_2\text{OH})_2\text{C}_7\text{H}_7\text{OC}_6\text{H}_9(\text{CH}_3)(\text{C}_3\text{H}_7)$. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 117-118 (2001).

Peters, E.M., K. Peters, M. Neumann and W. Tochtermann: Crystal structure of dimethyl $(1R^*, 2R^*, 3S^*, 4R^*, 6R^*, 7R^*, 9R^*, 13R^*)$ -2,13-dibromo-6-methoxy-5-oxatetracyclo[7.4.0.0^{1,4}.0^{3,7}]tridecane-2,3-dicarboxylate, $\text{C}_{17}\text{H}_{22}\text{Br}_2\text{O}_6$. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 469-470 (2001).

Peters, E.M., K. Peters, F. Ott and W. Tochtermann: Crystal structure of methyl $(1R^*, 12R^*, 13S^*, 15R^*)$ -9-aza-11-diazo-14,16-dioxa-10-oxo-tetracyclo[10.4.0.0^{1,15}.0^{8,13}]hexadec-7-ene-12-carboxylate, $(\text{C}_3\text{HNHCOCN}_2)(\text{C}_2\text{HO}_2)(\text{C}_6\text{H}_{11})\text{COOCH}_3$. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 307-308 (2001).

Peters, E.M., K. Peters, B. Seyberlich and W. Tochtermann:

- Crystal structure of 18-oxabicyclo[8.6.3]nonadeca-2,9,17-trione, $(\text{CHCOC}_6\text{H}_{12}\text{COC}_2\text{H}_3\text{OOC})(\text{C}_6\text{H}_{12})$. Zeitschrift für Kristallographie - New Crystal Structures **216**, 218-220 (2001).
- Crystal structure of (3*R*,5*R*)-(+)-3-methyl-1-oxa-spiro[4.10]pentadec-9-en-2,6-dione, $(\text{OCOCHCH}_3\text{CH}_2)(\text{C})(\text{COC}_9\text{H}_{16})$. Zeitschrift für Kristallographie - New Crystal Structures **216**, 225-226 (2001).

Peters, E.M., K. Peters, S. Tasler, H. Endress and G. Bringmann: Crystal structure of ethyl 1-methoxy-9-methyl-9H-carbazol-3-carboxylate, $\text{C}_{12}\text{NH}_6(\text{OCH}_3)(\text{CH}_3)\text{CO}_2(\text{C}_2\text{H}_5)$. Zeitschrift für Kristallographie - New Crystal Structures **216**, 119-120 (2001).

Peters, E.M., K. Peters, R. Walter, M. Stablein and G. Bringmann:

Crystal structure of (1*R*,3*R*)-8-benzyloxy-*N*-benzyl-6-hydroxy-1,3-dimethyl-1,2,3,4-tetrahydroisoquinoline hydrobromide, $\text{C}_9\text{H}_6\text{N}(\text{CH}_3)_2(\text{CH}_2\text{C}_6\text{H}_5)(\text{OH})(\text{OCH}_2\text{C}_6\text{H}_5) \cdot \text{HBr}$. Zeitschrift für Kristallographie - New Crystal Structures **216**, 223-224 (2001).

Pfützner, A. and K.D. Kreuer: New compounds and crystal structures. Nachrichten aus der Chemie **49**, 284-295 (2001).

Piana, S., D. Sebastiani, P. Carloni and M. Parrinello: Ab initio molecular dynamics-based assignment of the protonation state of pepstatin A/HIV-1 protease cleavage site. Journal of the American Chemical Society **123**, 8730-8737 (2001).

Plakhty, V.P., S.V. Maleyev, J. Kulda, E.D. Visser, J. Wosnitzer, E.V. Moskvina, T. Bruckel and R.K. Kremer: Spin chirality and polarised neutron scattering. Physica B **297**, 60-66 (2001).

Poddar, A., H. Kang, K. Barner, P. Mandal, E. Gmelin, M. Annaorazov and I.V. Medvedeva: Anomalous metal-insulator transition in $\text{BaCo}_{1-x}\text{Ni}_x\text{S}_{2-y}$ as a triggered phase transition. physica status solidi (b) **225**, 443-448 (2001).

Podor, B., G. Kovacs, G. Remenyi, I.G. Savel'ev and S.V. Novikov: Magnetic field induced insulating phase in two-dimensional electron gas in InGaAs/InP: The Wigner solid. Inorganic Materials **37**, 439-444 (2001).

Pogosov, A.G., M.V. Budantsev, Z.D. Kvon, A. Pouydebasque, D.K. Maude and J.C. Portal: Nonlocal resistance of 2D electron gas in antidot lattice in quantum Hall effect regime. Physica B **298**, 93-96 (2001).

Pogosov, A.G., M.V. Budantsev, Z.D. Kvon, A. Pouydebasque, A.E. Plotnikov, A.I. Toropov and J.C. Portal: Magnetotransport in square and triangular lattice of large and dense antidots: comparable study. In: Proceedings of the 25th International Conference on the Physics of Semiconductors, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 911-912.

Pogosov, A.G., M.V. Budantsev, A. Pouydebasque, M.V. Entin, D.K. Maude, J.C. Portal, A.E. Plotnikov, A.I. Toropov and A.K. Bakarov: Shift of geometrical resonances in a periodical lattice of antidots in tilted magnetic field. Physica B **298**, 291-294 (2001).

Pohlt, M., M. Lynass, W. Dietsche, K. von Klitzing, K. Eberl and R. Mühle: Magnetotransport and capacitance investigations of strongly coupled but spatially separated 2D electron and hole systems. In: Proceedings of the 25th International Conference on the Physics of Semiconductors, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 789-790.

Poltavets, V.V. siehe Kazin, P.E.

Popov, A.I., M.A. Monge, R. Gonzalez, Y. Chen and E.A. Kotomin: Dynamics of F-center annihilation in thermochemically reduced MgO single crystals. Solid State Communications **118**, 163-167 (2001).

Popovic, Z.V., V.A. Ivanov, M.J. Konstantinovic, A. Cantarero, J. Martinez-Pastor, D. Olguin, M.I. Alonso, M. Garriga, O.P. Khuong, A. Vietkin and V.V. Moshchalkov: Optical studies of gap, hopping energies, and the Anderson-Hubbard parameter in the zigzag-chain compound SrCuO_2 . Physical Review B **63**, 165105 (2001).

Popovic, Z.V., M.J. Konstantinovic, R. Gajic, C. Thomsen, U. Kuhlmann and A. Vietkin: Polarized far-infrared and Raman spectra of SrCuO_2 single crystals. Physica C **351**, 386-394 (2001).

- Poulter, A.J.L., J. Zeman, D.K. Maude, M. Potemski, G. Martinez, A. Riedel, R. Hey and K.J. Friedland:*
– Magneto infrared absorption in high electron density GaAs quantum wells. *Physical Review Letters* **86**, 336-339 (2001).
– Polaron coupling in high density GaAs quantum wells. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 1005-1006.
- Pouydebasque, A., A.G. Pogosov, M.V. Budantsev, D.K. Maude, A.E. Plotnikov, A.I. Toropov and J.C. Portal:*
– Electron phase coherence length in a lattice of antidots. *Physica B* **298**, 287-290 (2001).
– Weak localization in a lattice of antidots. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 1353-1354.
- Pouydebasque, A., A.G. Pogosov, M.V. Budantsev, A.E. Plotnikov, A.I. Toropov, D.K. Maude and J. Portal:* Negative magnetoresistance due to ballistic weak localization in a dense hexagonal lattice of antidots. *Physical Review B* **64**, 245306 (2001).
- Primo-Martin V. and M. Jansen:* Synthesis, structure, and physical properties of cobalt perovskites: $\text{Sr}_3\text{CoSb}_2\text{O}_9$ and $\text{Sr}_2\text{CoSbO}_{6-\delta}$. *Journal of Solid State Chemistry* **157**, 76-85 (2001).
- Prokofiev, A.V., R.K. Kremer and W. Assmus:* Crystal growth and magnetic properties of $\alpha\text{-CuV}_2\text{O}_6$. *Journal of Crystal Growth* **231**, 498-505 (2001).
- Pruschke, Th., W. Metzner and D. Vollhardt:* On the analyticity of solutions in the dynamical mean-field theory. *Journal of Physics: Condensed Matter* **13**, 9455-9461 (2001).
- Puschnig, P., C. Ambrosch-Draxl, R.W. Henn and A. Simon:* Electronic properties and Raman spectra of rare-earth carbide halides investigated from first principles. *Physical Review B* **64**, 024519 (2001).
- Qin, H., A.W. Holleitner, K. Eberl and R.H. Blick:** Coherent superposition of photon- and phonon-assisted tunneling in coupled quantum dots. *Physical Review B* **64**, 241302 (2001).
- Radius, U., J. Sundermeyer, K. Peters and H.G. von Schnering:** Bis(cyclopentadienyl) diimido complexes of molybdenum and tungsten $[\text{Cp}_2\text{M}(\text{NR})_2]$ at the limit of π -bond saturation. *European Journal of Inorganic Chemistry*, 1617-1623 (2001).
- Raz, S., K. Sasaki, J. Maier and I. Riess:* Characterization of adsorbed water layers on Y_2O_3 -doped ZrO_2 . *Solid State Ionics* **143**, 181-204 (2001).
- Reich, A. siehe Haufe, O.; Loa, I.; Möschel, C.
- Reich, S., C. Thomsen, G.S. Duesberg and S. Roth:* Intensities of the Raman-active modes in single and multiwall nanotubes. *Physical Review B* **63**, 041401 (2001).
- Rikken, G.L.J.A., J. Foelling and P. Wyder:* Electrical magneto-chiral anisotropy. *Physical Review Letters* **87**, 236602 (2001).
- Rikken, G.L.J.A., E. Raupach and T. Roth:* Recent advances in magneto-optics. *Physica B* **294-295**, 1-4 (2001).
- Rikken, G.L.J.A. and C. Rizzo:* Magnetoelectric birefringences of the quantum vacuum. *Physical Review A* **63**, 012107 (2001).
- Rikken, G.L.J.A. siehe Askenazy, S.; Düchs, G.
- Robert, J.B. and A.L. Barra:* NMR and parity nonconservation. Experimental requirements to observe a difference between enantiomer signals. *Chirality* **13**, 699-702 (2001).

Rodewald, S., J. Fleig and J. Maier:

- Microcontact impedance spectroscopy at single grain boundaries in Fe-doped SrTiO₃ polycrystals. *Journal of the American Ceramic Society* **84**, 521-530 (2001).
- The distribution of grain boundary resistivities in SrTiO₃ polycrystals: a comparison between spatially resolved and macroscopic measurements. *Journal of the European Ceramic Society* **21**, 1749-1752 (2001).

Rodewald, S., N. Sakai, K. Yamaji, H. Yokokawa, J. Fleig and J. Maier: The effect of the oxygen exchange at electrodes on the high-voltage electrocoloration of Fe-doped SrTiO₃ single crystals: a combined SIMS and microelectrode impedance study. *Journal of Electroceramics* **7**, 95-105 (2001).

Rohe, D. and W. Metzner: Pair-fluctuation-induced pseudogap in the normal phase of the two-dimensional attractive Hubbard model at weak coupling. *Physical Review B* **63**, 224509 (2001).

Romero, A.H., P.L. Silvestrelli and M. Parrinello: Compton scattering and the character of the hydrogen bond in ice I_h. *Journal of Chemical Physics* **115**, 115-123 (2001).

Roth, S.: Leuchtdioden aus Nanostäbchen. *Physikalische Blätter* **57**, 17-18 (2001).

Roth, S., M. Burghard, V. Krstic, K. Liu, J. Muster, G. Philipp, G.T. Kim, J.G. Park and Y.W. Park: Quantum transport in molecular nanowires transistors. *Current Applied Physics* **1**, 56-60 (2001).

Rovira, C., K. Kunc, J. Hutter and M. Parrinello: Structural and electronic properties of co-corrole, co-corrin, and co-porphyrin. *Inorganic Chemistry* **40**, 11-17 (2001).

Rovira, C., B. Schulze, M. Eichinger, J.D. Evanseck and M. Parrinello: Influence of the heme pocket conformation on the structure and vibrations of the Fe-CO bond in myoglobin: A QM/MM density functional study. *Biophysical Journal* **81**, 435-445 (2001).

Roy, B., A. Poddar, S. Das and E. Gmelin: Transport and magnetic properties of bulk and epitaxial thin film of Pr_{0.5}Sr_{0.5}MnO₃. *Journal of Alloys and Compounds* **326**, 317-320 (2001).

Ruf, T., J. Serrano, M. Cardona, P. Pavone, M. Pabst, M. Krisch, M. D'Astuto, T. Suski, I. Grzegory and M. Leszczynski: Phonon dispersion curves in wurtzite-structure GaN determined by inelastic X-ray scattering. *Physical Review Letters* **86**, 906-909 (2001).

Rusu, D., C. Craciun, A.L. Barra, L. David, M. Rusu, C. Rosu, O. Cozar and G. Marcu: Spectroscopic and electron paramagnetic resonance behavior of trinuclear metallic clusters encapsulated in [M₃ⁿ⁺(H₂O)_x(BiW₉O₃₃)₂]⁽¹⁸⁻³ⁿ⁾⁻ heteropolyanion (Mⁿ⁺ = (VO)^{II}, x = 0 and Mⁿ⁺ = Cr^{III}, Mn^{II}, Fe^{III}, Co^{II}, Ni^{II}, Cu^{II}, x = 3). *Journal of the Chemical Society, Dalton Transactions*, 2879-2887 (2001).

Sadowski, J., R. Mathieu, P. Svedlindh, M. Karlsteen, J. Kanski, L. Ilver, H. Asklund, K. Swiatek, J.Z. Domagala, J. Bak-Misiuk and D. Maude: Properties of GaMnAs layers grown by migration enhanced epitaxy at very low substrate temperatures. *Physica E* **10**, 181-185 (2001).

Sagol, B.E., G. Nachtwei, I.I. Kaya, K. von Klitzing and K. Eberl: Space and Time-Resolved Measurements of Electronic Excitation in Quantum Hall Conductors. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 959-960.

Sapega, V.F., D.N. Mirlin, T. Ruf, M. Cardona, W. Winter and K. Eberl: Magnetic-field-induced transitions between minibands in GaAs/Al_xGa_{1-x}As superlattices. *Soviet Physics Semiconductors* **35**, 447-450 (2001).

Sapega, V.F., T. Ruf and M. Cardona: Spin-flip raman study of exchange interactions in bulk GaAs:Mn. *physica status solidi (b)* **226**, 339-356 (2001).

Savrasov, D.Y. siehe Maksimov, E.G.

Schier, H. siehe Marx, W.

Schlecht, S. and L. Kienle: Mild solvothermal synthesis and TEM investigation of unprotected nanoparticles of tin sulfide. *Inorganic Chemistry* **40**, 5719-5721 (2001).

Schlecht, U. siehe Venkateswaran, U.D.

Schleser, R. siehe Eremenko, V.; Eremenko, V.V.

Schlosser, M., L. Kienle, C. Reiner and H.J. Deiseroth: $K_2In_{12}Se_{19}$ und $K_2In_{12}Se_{19-x}Te_x$ – Prinzipien der Domänenbildung. *Zeitschrift für Kristallographie, Supplement* **188** (2001).

Schlosser, M., C. Reiner, H.J. Deiseroth and L. Kienle: $K_2In_{12}Se_{19}$, a complex new structure type based on icosahedral units of Se^{2-} . *European Journal of Inorganic Chemistry* **2001**, 2241-2247 (2001).

Schmid, J., J. Weis, K. Eberl and K. von Klitzing: Split Kondo resonances in quantum dots at finite magnetic fields. *Physica E* **9**, 54-59 (2001).

Schmid, M., S. Krümer, M. Mehring, S. Roth, M. Haluska and P. Bernier: Hydrogen storage in fragmented carbon nanotubes: 1H NMR. *AIP Conference Proceedings* **591**, 598-601 (2001).

Schmidt, M., H. Oppermann, M.Z. Presse, E. Gmelin, W. Schnelle, N. Soger and M. Binnewies: Sb_2SmO_4Cl , the first antimony rare-earth oxide chloride. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 2105-2111 (2001).

Schmidt, O.G., N. Schmarje, C. Deneke, C. Müller and N.Y. Jin-Phillipp: Three-dimensional nano-objects evolving from a two-dimensional layer technology. *Advances in Physics* **13**, 756-759 (2001).

Schmidt, O.G. and K. Eberl:

- Self-assembled Ge/Si dots for faster field-effect transistors. *IEEE Transactions on Electron Devices* **48**, 1175-1179 (2001).
- Nanotechnology - Thin solid films roll up into nanotubes. *Nature* **410**, 168-168 (2001).

Schmidt, O.G. and N.Y. Jin-Phillipp: Free-standing SiGe-based nanopipelines on Si (001) substrates. *Applied Physics Letters* **78**, 3310-3312 (2001).

Schmidt, O.G. siehe Cazayous, M.; Dashiell, M.W.; Denker, U.; Eberl, K.; Hayne, M.; Meduna, M.; Stangl, J.; Teo, K.L.

Schmittl, M., K. Peters, E.M. Peters, A. Haeuseler and H. Trenkle: Radical cation ester cleavage in solution. Mechanism of the mesolytic O-CO bond scission. *Journal of Organic Chemistry* **66**, 3265-3276 (2001).

Schnelle, W., R. Fischer and E. Gmelin: Specific heat capacity and thermal conductivity of $NdGaO_3$ and $LaAlO_3$ single crystals at low temperatures. *Journal of Physics D* **34**, 846-851 (2001).

Schnelle, W. and E. Gmelin: Heat capacity of germanium crystals with various isotopic composition. *Journal of Physics: Condensed Matter* **13**, 6087-6094 (2001).

Schnelle, W. and R.K. Kremer: Thermodynamic properties and magnetism of $Ce_3Cu_3Sb_4$. *Journal of Physics: Condensed Matter* **13**, 6387-6395 (2001).

Schnering von, H.G., M. Somer, K. Peters, W. Carrillo-Cabrera and Y. Grin: Crystal structure of dicaesium hydrogenphosphide, $Cs_2[PH]$. *Zeitschrift für Kristallographie - New Crystal Structures* **216**, 42 (2001).

Schön, J.C. and M. Jansen:

- Determination, prediction, and understanding of structures, using the energy landscapes of chemical systems - Part I. *Zeitschrift für Kristallographie* **216**, 307-325 (2001).
- Determination, prediction, and understanding of structures, using the energy landscapes of chemical systems - Part II. *Zeitschrift für Kristallographie* **216**, 361-383 (2001).

Schön, J.C., M.A.C. Wevers and M. Jansen: Prediction of high pressure phases in the systems Li_3N , Na_3N , $(\text{Li,Na})_3\text{N}$, Li_2S and Na_2S . *Journal of Materials Chemistry* **11**, 69-77 (2001).

Schreyer, M. and M. Jansen: Synthesis, structure and properties of Ag_2PdO_2 . *Solid State Sciences* **3**, 25-30 (2001).

Schubert, K. siehe Zhou, J.Y.

Schulze-Wischeler F., U. Zeitler, M. Monka, F. Hohls, R.J. Haug and K. Eberl: Phonon emission and absorption in the fractional quantum Hall effect. *Physica B* **298**, 164-168 (2001).

Schussler, A.S., J. Burghoorn, P. Wyder, B.I. Lembrikov and R. Baptist: Observation of excimer luminescence from electron-excited liquid xenon. *Applied Physics Letters* **78**, 3148-3148 (2001).

Schuster, M., W.H. Meyer, G. Wegner, H.G. Herz, M. Ise, M. Schuster, K.D. Kreuer and J. Maier: Proton mobility in oligomer-bound proton solvents: imidazole immobilization via flexible spacers. *Solid State Ionics* **145**, 85-92 (2001).

Schwarz, U., S. Bräuning, U. Burkhardt, K. Syassen and M. Hanfland: Structural phase transition of GdGa_2 at high pressure. *Zeitschrift für Kristallographie* **216**, 331-336 (2001).

Sebastiani, D. and M. Parrinello: A new ab initio approach for NMR chemical shifts in periodic systems. *Journal of Physical Chemistry A* **105**, 1951-1958 (2001).

Sergio, C.S., G.M. Gusev, J.R. Leite, E.B. Olshanetskii, A.A. Bykov, N.T. Moshegov, A.K. Bakarov, A.I. Toropov, D.K. Maude, O. Estibals and J.C. Portal: Coexistence of a two- and three-dimensional Landau states in a wide parabolic quantum well. *Physical Review B* **64**, 115314 (2001).

Serrano, J., T. Ruf, F. Widulle, C.T. Lin and M. Cardona: Isotopic investigation of the lattice dynamics in CuBr . *Physical Review B* **64**, 045201 (2001).

Serrano, J. siehe Cardona, M.; Ruf, T.

Sheikin, I., E. Steep, D. Braithwaite, J.P. Brison, S. Raymond, D. Jaccard and J. Flouquet: Superconductivity, upper critical field and anomalous normal state in CePd_2Si_2 near the quantum critical point. *Journal of Low Temperature Physics* **122**, 591-604 (2001).

Shin, D.H., S.K. Kim, S.D. Kim, J.K. Rhee, J.J. Harris, D.K. Maude and J.C. Portal: Negative magnetoresistivity from electron-electron interaction effect in modulation doped n-channel $\text{Si}/\text{Si}_{1-x}\text{Ge}_x$ quantum well structures. *physica status solidi (b)* **223**, 649-656 (2001).

Shlimak, I., V.I. Safarov and I.D. Vagner: Isotopically engineered silicon/silicon-germanium nanostructures as basic elements for a nuclear spin quantum computer. *Journal of Physics: Condensed Matter* **13**, 6059-6065 (2001).

Sidis, Y., C. Ulrich, P. Bourges, C. Bernhard, C. Niedermayer, L.P. Regnault, N.H. Andersen and B. Keimer: Antiferromagnetic ordering in superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{6.5}$. *Physical Review Letters* **86**, 4100-4103 (2001).

Smet, J.H., R.A. Deutschmann, W. Wegscheider, G. Abstreiter and K. von Klitzing: Ising ferromagnetism and domain morphology in the fractional quantum Hall regime. *Physical Review Letters* **86**, 2412-2415 (2001).

Smith, T.J., H. Capellmann, R.K. Kremer, K.U. Neumann and K.R.A. Ziebeck: A quantitative determination of magnetic fluctuations in CuGeO_3 . *European Physical Journal B* **21**, 341-347 (2001).

Sofin, M. and M. Jansen: Rb_3CoO_2 , a novel oxocobaltate(I) synthesized via the azide/nitrate route. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 2115-2117 (2001).

Sordan, R., M. Burghard and K. Kern: Removable template route to metallic nanowires and nanogaps. *Applied Physics Letters* **79**, 2073-2075 (2001).

Sort, J., J. Nogues, S. Surinach, J.S. Muñoz, M.D. Baro, E. Chappel, F. Dupont and G. Chouteau: Coercivity and squareness enhancement in ball-milled hard magnetic-antiferromagnetic composites. *Applied Physics Letters* **79**, 1142-1144 (2001).

Sozontov, E., L.X. Cao, A. Kazimirov, V. Kohn, M. Konuma, M. Cardona and J. Zegenhagen: X-ray standing wave analysis of the effect of isotopic composition on the lattice constants of Si and Ge. *Physical Review Letters* **86**, 5329-5332 (2001).

Spangenberg, A., J. Fleig and J. Maier: Electromechanical writing on silver ion conductors. *Advances in Physics* **13**, 1466-1468 (2001).

Stangl, J., A. Daniel, V. Holy, T. Roch, G. Bauer, I. Kegel, T.H. Metzger, T. Wiebach, O.G. Schmidt and K. Eberl: Strain and composition distribution in uncapped SiGe islands from X-ray diffraction. *Applied Physics Letters* **79**, 1474-1476 (2001).

Stepniewski, R., A. Wyszomolek and M. Potemski: GaN electronic structure and luminescence mechanisms from magneto-optics in high magnetic fields. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 1513-1514.

Stepanov, A.G., J. Hebling and J. Kuhl: Frequency and temperature dependence of the TO phonon-polariton decay in GaP. *Physical Review B* **63**, 104304 (2001).

Stevens, T.E., J.K. Wahlstrand, J. Kuhl and R. Merlin:

- Cherenkov radiation at speeds below the light threshold: Phonon-assisted phase matching. *Science* **291**, 627-630 (2001).
- Coherent polaritons and Cherenkov radiation at subliminal speeds. *OSA Trends in Optics and Photonics* **57**, 152-153 (2001).

Stolovits, A., K. Ahn, R.K. Kremer and A. Sherman: Magnetoresistance study of Ta₄Te₄Si fibers. *Synthetic Metals* **121**, 1267-1268 (2001).

Szabó, P., P. Samuely, J. Kačmarčík, A.G.M. Jansen, A. Briggs, A. Lafond and A. Meerschaut: Interlayer transport in the highly anisotropic misfit-layer superconductor (LaSe)_{1.14}(NbSe₂). *Physical Review Letters* **86**, 5990-5993 (2001).

Szabó, P., P. Samuely, J. Kačmarčík, T. Klein, J. Marcus, D. Fruchart, S. Miraglia, C. Marcenat and A.G.M. Jansen: Evidence for two superconducting energy gaps in MgB₂ by point-contact spectroscopy. *Physical Review Letters* **87**, 137005 (2001).

Szotek, Z., B.L. Gyorffy, W.M. Temmerman, O.K. Andersen and O. Jepsen: Quasiparticles in d-wave superconductors within density functional theory. *Journal of Physics: Condensed Matter* **13**, 8625-8652 (2001).

Takashina, K., R.J. Nicholas, B. Kardynal, N.J. Mason, D.K. Maude and J.C. Portal:

- Breakdown of the quantum Hall effect in an electron-hole system. *Physica B* **298**, 8-12 (2001).
- Edge effects in an insulating state of an electron-hole system in magnetic field. *Physica B* **298**, 28-32 (2001).
- Insulating states of a 2-dimensional electron-hole system in high magnetic field. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 895-896.

Takemura, K., U. Schwarz, K. Syassen, N.E. Christensen, M. Hanfland, D.L. Novikov and I. Loa: High-pressure structures of Ge above 100 GPa. *physica status solidi (b)* **223**, 385-390 (2001).

Tartaglino, U., D. Passerone, E. Tosatti and F. Di Tolla: Bent surface free energy differences from simulation. *Surface Science* **482**, 1331-1336 (2001).

Tedesco, C., R.E. Dinnebier, F. Olbrich and S. van Smaalen: Disordered crystal structure of pentamethylcyclopentadienylsodium as seen by high-resolution X-ray powder diffraction. *Acta Crystallographica B* **57**, 673-679 (2001).

Tellenbach, A. and M. Jansen: Dimerization of molecular phosphorus oxides. *Angewandte Chemie, International Edition in English* **40**, 4691 (2001).

Teo, K.L., L. Qin, I.M. Noordin, G. Karunasiri, Z.X. Shen, O.G. Schmidt, K. Eberl and H.J. Queisser: Effects of hydrostatic pressure on Raman scattering in Ge quantum dots. *Physical Review B* **63**, 121306 (2001).

Teran, F.J., M. Potemski, P. Kossacki, P. Hawrylak and G. Karczewski: Magneto-optical transitions involving 2DEG confined in Cd(Mn)Te/CdMnTe quantum wells. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. *Springer Proceedings in Physics* **87**, Springer, Berlin 2001, 723-734.

Teran, F.J., M. Potemski, D.K. Maude, T. Andrearczyk, J. Jaroszynski and G. Karczewski: Effects of non-linear spin splitting on the quantum transport in a 2DEG in CdMnTe/CdMTe modulation doped quantum wells. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. *Springer Proceedings in Physics* **87**, Springer, Berlin 2001, 943-944.

Teske, E. siehe Klier, J.

Testelin, C., A. Lemaitre, C. Rigaux, T. Wojtowicz, G. Karczewski and F.J. Teran: Magneto-optical evidence of many-body effects in spin-polarized 2D electron gas. In: *Proceedings of the 25th International Conference on the Physics of Semiconductors*, (Eds.) N. Miura, T. Ando. *Springer Proceedings in Physics* **87**, Springer, Berlin 2001, 551-552.

Tobias, D.J., P. Jungwirth and M. Parrinello: Surface solvation of halogen anions in water clusters: An ab initio molecular dynamics study of the $\text{Cl}^-(\text{H}_2\text{O})_6$ complex. *Journal of Chemical Physics* **114**, 7036-7044 (2001).

Tokunaga, Y., H. Kotegawa, K. Ishida, Y. Kitaoka, H. Takagiwa and J. Akimitsu: NMR evidence for co-existence of superconductivity and ferromagnetic component in magnetic superconductor $\text{RuSr}_2\text{YCu}_2\text{O}_8$: $^{99,101}\text{Ru}$ and ^{63}Cu NMR. *Physical Review Letters* **86**, 5767-5770 (2001).

Tyagi, A.K. and J. Köhler: Preparation and structural elucidation of the new anion-excess fluorite variant $\text{Ba}_4\text{Er}_3\text{F}_{17}$. *Solid State Sciences* **3**, 689-695 (2001).

Ulrich, C. siehe Debernardi, A.; Lin, C.T.; Sidis, Y.

Vaara, J., O.L. Malkina, H. Stoll, V.G. Malkin and M. Kaupp: Study of relativistic effects on nuclear shieldings using density-functional theory and spin-orbit pseudopotentials. *Journal of Chemical Physics* **114**, 61-71 (2001).

Vajenine, G.V., G. Auffermann, Y. Prots, W. Schnelle, R.K. Kremer, A. Simon and R. Kniep: Preparation, crystal structure, and properties of barium pernitride, BaN_2 . *Inorganic Chemistry* **40**, 4866-4870 (2001).

Vajenine, G.V. and A. Simon:

- Preparation and crystal structure of $\text{Na}_7\text{Ba}_{14}\text{CaN}_6$: A new subnitride in the $\text{Na}_x\text{Ba}_{14}\text{CaN}_6$ series. *European Journal of Inorganic Chemistry*, 1189-1193 (2001).
- NaBa_2O : A fresh perspective in suboxide chemistry. *Angewandte Chemie, International Edition in English* **40**, 4220-4222 (2001).

Vajenine, G.V. siehe Mattausch, H.; Weiss, H.

Van den Brink, J., G. Khaliullin and D. Khomskii: Coulomb interaction and instability of CE-type structure in half-doped manganites - Reply. *Physical Review Letters* **86**, 5843 (2001).

Van Loosdrecht, P.H.M., J. Zeman, G. Martinez, M.J. Konstantinovic, A. Revcolevschi and Y. Ueda: Low dimensional correlated systems: CuGeO_3 and NaV_2O_5 . *Ferroelectrics* **249**, 41-49 (2001).

Vargas, P., E. Muñoz and L. Rodriguez: Second virial coefficient for the Lennard-Jones potential. *Physica A* **290**, 92-100 (2001).

Vasilyev, Yu.B., S.D. Suchalkin, M. Zundel, G. Nachtwei, K. von Klitzing and K. Eberl: Cyclotron resonance absorption of 2DEG with embedded self-organized antidots. *Physica B* **298**, 230-233 (2001)

Vattuone, L., U. Burghaus, L. Savio, M. Rocca, G. Costantini, F. Buatier de Mongeot, C. Boragno, S. Rusponi and U. Valbusa: Oxygen interaction with disordered and nanostructures $\text{Ag}(001)$ surfaces. *Journal of Chemistry and Physics* **115**, 3346-3355 (2001).

Vedeneev, S.I., A.G.M. Jansen and P. Wyder: Magnetotransport and magneto-tunneling in single-layer, two-layer, and three-layer $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_z$ ($n = 1, 2, 3$) single crystals. *Physica B* **300**, 38-51 (2001).

Vedeneev, S.I., P. Szabo, A.G.M. Jansen and I.S. Vedeneev: Tunneling in single-layer $\text{Bi}_2\text{Sr}_2\text{CuO}_{6+\delta}$ single crystals in high magnetic field. *Journal of Experimental and Theoretical Physics* **92**, 851-857 (2001).

Vegas, A., A. Grzechnik, K. Syassen, I. Loa, M. Hanfland and M. Jansen: Reversible phase transitions in Na_2S under pressure: a comparison with the cation array in Na_2SO_4 . *Acta Crystallographica B* **57**, 151-156 (2001).

Venkateswaran, U.D., E.A. Brandsen, U. Schlecht, A.M. Rao, E. Richter, I. Loa, K. Syassen and P.C. Eklund: High pressure studies of the Raman-active phonons in carbon nanotubes. *physica status solidi (b)* **223**, 225-236 (2001).

Verbin, S.Y., O.Z. Karimov, A.N. Reznitsky, A.A. Klochikhin, T. Ruf, L.N. Tennishev, S.A. Permogorov, S.V. Ivanov, D. Wolverson and J.J. Davies: Fine structure and spin relaxation of excitons localized at CdSe sub-monolayer insertions in a ZnSe matrix. *physica status solidi (b)* **224**, 545-549 (2001).

Ves, S., I. Loa, K. Syassen, F. Widulle and M. Cardona: Raman lineshapes of GaP under pressure. *physica status solidi (b)* **223**, 241-245 (2001).

Vigliante, A., U. Gebhardt, A. Ruhm, P. Wochner, F.S. Razavi and H.-U. Habermeier: Coupling between lattice distortions and magnetism in $\text{La}_{0.9}\text{Sr}_{0.1}\text{MnO}_3$ thin films. *Europhysics Letters* **54**, 619-625 (2001).

Vogt, H.: Soft-mode splitting in the low-temperature phase of $\text{K}_{1-x}\text{Li}_x\text{TaO}_3$: a comparative Raman and hyper-Raman study. *Journal of Physics: Condensed Matter* **13**, 4313-4322 (2001).

Waldmann, O., R. Koch, S. Schromm, J. Schulein, P. Müller, I. Bernt, R.W. Saalfrank, F. Hampel and E. Balthes: Magnetic anisotropy of a cyclic octanuclear Fe(III) cluster and magneto-structural correlations in molecular ferric wheels. *Inorganic Chemistry* **40**, 2986-2995 (2001).

Wang, G.M., E. Blaisten-Barojas, A.E. Roitberg and T.P. Martin: Strontium clusters: Many-body potential, energetics, and structural transitions. *Journal of Chemical Physics* **115**, 3640-3646 (2001).

Wang, Z.H., F.W. Wang, X. Chen, R.W. Li and B.G. Shen: Metallic ferromagnetism in Ni-doped $\text{La}_{0.7}\text{Sr}_{0.3}\text{CoO}_3$. *Journal of Applied Physics* **91**, 519-521 (2001).

Weckesser, J., J.V. Barth and K. Kern: Mobility and bonding transition of C_{60} on Pd(110). *Physical Review B* **64**, 161403 (2001).

Weckesser, J., C. Cepek, R. Fasel, J.V. Barth, F. Baumberger, T. Greber and K. Kern: Binding and ordering of C_{60} on Pd(110): Investigations at the local and mesoscopic scale. *Journal of Chemical Physics* **115**, 9001-9009 (2001).

Weckesser, J., A. De Vita, J.V. Barth, C. Cai and K. Kern: Mesoscopic correlation of supramolecular chirality in one-dimensional hydrogen-bonded assemblies. *Physical Review Letters* **87**, 096101 (2001).

Weckesser, J. siehe Wuhn, A.

Weis, J., J. Schmid, U. Wilhelm and M. Keller: Kondo physics on single and electrostatically coupled quantum dots. In: Proceedings of the 25th International Conference on the Physics of Semiconductors, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 1013-1014.

Weis, J. siehe Ahlswede, E.; Keller, M.; Schmid, J.; Wilhelm, U.

Weiss, H., M. Boero and M. Parrinello: Car-Parrinello molecular dynamics investigation of active surfaces and Ti catalytic sites in Ziegler-Natta heterogeneous catalysis. Macromolecular Symposia **173**, 137-147 (2001).

Weiss, H., M.V. Kartsovnik, W. Biberacher, E. Balthes, A.G.M. Jansen and N.D. Kushch: Magneto-quantum oscillations in κ -(BEDT-TTF) $2\text{Cu}[\text{N}(\text{CN})_2]\text{Br}$. Synthetic Metals **120**, 837-838 (2001).

Weiss, H., G.V. Vajenine, U. Steinbrenner, A. Simon, E. Balthes and P. Wyder: Fermi surface investigations of the alkaline-earth-metal subnitride NaBa_3N by means of de Haas-van Alphen oscillations. Physical Review B **63**, 115104 (2001).

Weiss, H. siehe Andres, D.; Boero, M.; Christ, P.; Kartsovnik, M.V.

Weiss, M. siehe Murzin, S.S.

Weman, H., S. Jullian, M.A. Dupertuis, M. Potemski, A. Rudra and E. Kapon: Magneto-electroluminescence study of single and double V-groove quantum wires. In: Proceedings of the 25th International Conference on the Physics of Semiconductors, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 1119-1120.

Wevers, M.A.C., J.C. Schön and M. Jansen: Characteristic regions on the energy landscape of MgF_2 . Journal of Physics A **34**, 4041-4052 (2001).

Widulle, F., T. Ruf, M. Konuma, I. Silier, M. Cardona, W. Kriegseis and V.I. Ozhogin: Isotope effects in elemental semiconductors: a Raman study of silicon. Solid State Communications **118**, 1-22 (2001).

Wilhelm, U., J. Schmid, J. Weis and K. von Klitzing: Two electrostatically coupled quantum dots as a realization of the Anderson impurity model. Physica E **9**, 625-630 (2001).

Witschas, M., H. Eckert, H. Freiheit, A. Putnis, G. Korus and M. Jansen: Anion rotation and cation diffusion in low-temperature sodium orthophosphate: Results from solid-state NMR. Journal of Physical Chemistry A **105**, 6808-6816 (2001).

Wosnitza, J., S. Wanka, J. Hagel, H. von Löhneysen, J.S. Qualls, J.S. Brooks, E. Balthes, J.A. Schlueter, U. Geiser, J. Mohtasham, R.W. Winter and G.L. Gard: Field-induced metal-insulator transition in a two-dimensional organic superconductor. Physical Review Letters **86**, 508-511 (2001).

Wüllen van, L.: Magnetochirality-induced asymmetric synthesis. ChemPhysChem **2**, 107-108 (2001).

Wüllen van, L. and M. Jansen: Random inorganic networks: a novel class of high-performance ceramics. Journal of Materials Chemistry **11**, 223-229 (2001).

Wuhn, A., J. Weckesser and C. Woll: Bonding and orientational ordering of long-chain carboxylic acids on $\text{Cu}(111)$: Investigations using X-ray absorption spectroscopy. Langmuir **17**, 7605-7612 (2001).

Wysmolek, A., M. Potemski and T. Slupinski:

- Inelastic light scattering on coupled plasmon-LO phonon modes in high magnetic fields. Physica B **298**, 216-220 (2001).
- Coupled plasmon-LO phonon modes at high magnetic fields. In: Proceedings of the 25th International Conference on the Physics of Semiconductors, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 87-88.

Wysmolek, A., M. Potemski and R. Stepniowski: Selective magneto-luminescence spectroscopy of shallow donors in n-GaAs. In: Proceedings of the 25th International Conference on the Physics of Semiconductors, (Eds.) N. Miura, T. Ando. Springer Proceedings in Physics **87**, Springer, Berlin 2001, 1393-1394.

Yu, P.Y., G. Martinez, J. Zeman and K. Uchida: Spectroscopic study of partially ordered semiconductor heterojunction under high pressure and high magnetic field. Journal of Raman Spectroscopy **32**, 835-839 (2001).

Zalinger van, H., B. Ozyilmaz, A. Bohm, R.W. van der Heijden, J.H. Wolter and P. Wyder:

- Charge screening in the quantum Hall regime probed by the lateral photoelectric effect. Physica B **298**, 60-64 (2001).
- Observation of the screening signature in the lateral photovoltage of electrons in the quantum Hall regime. Physical Review B **64**, 235303 (2001).

Zeitler, U., H.W. Schumacher, R.J. Haug and A.G.M. Jansen: Transport anisotropies in a Si/SiGe heterostructure induced by an in-plane magnetic field. Physica B **298**, 501-504 (2001).

Zeitler, U., H.W. Schumacher, A.G.M. Jansen and R.J. Haug: Magnetoresistance anisotropy in Si/SiGe in tilted magnetic fields: Experimental evidence for a stripe-phase formation. Physical Review Letters **86**, 866-869 (2001).

Zeman, J., A.J.L. Poulter, M. Lentze, C. Faugeras, G. Martinez, R. Hey and K.J. Friedland: The influence of acceptors on cyclotron resonance in high electronic density 2DEG. Physica B **298**, 226-229 (2001).

Zeyher, R. and A. Greco: Low-energy renormalization of the electron dispersion of high- T_c superconductors. Physical Review B **64**, 140510 (2001).

Zeyher, R. siehe Greco, A.

Zha, F.X., D.L. Carroll, R. Czerw, A. Loiseau, H. Pascard, W. Clauss and S. Roth: Electronic effects in scanning tunneling microscopy of dendritic, Cr-filled carbon nanotubes. Physical Review B **63**, 165432 (2001).

Zhang, F., Y. Xu, J.H. Yang and M. Guillot: Quantum theory of the magneto-optical effect and magnetization of Nd-substituted yttrium iron garnet. European Physical Journal B **20**, 165-175 (2001).

Zhang, H.M. siehe Jemander, S.T.

Zhang, P.X., J. Hebling, J. Kuhl, W.W. Rühle and H. Giessen: Efficient intracavity generation of visible pulses in a femtosecond near-infrared optical parametric oscillator. Optics Letters **26**, 2005-2007 (2001).

Zhang, P.X., S.J. Huang, H.-U. Habermeier and G.M. Zhao:

- Raman spectra from isotope substituted $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$. Physica C **364**, 647-651 (2001).
- Isotope effect on Raman spectra of polycrystalline $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$. Journal of Raman Spectroscopy **32**, 812-816 (2001).

Zhang, P.X., J.B. Wang, G.Y. Zhang, H.-U. Habermeier and W.K. Lee: Laser induced voltage in CMR thin films and its device application. Physica C **364**, 656-658 (2001).

Zheng, C., H. Mattausch and A. Simon:

- Crystal structure of galotrilanthanum triiodide, La_3GaI_3 . Zeitschrift für Kristallographie - New Crystal Structures **216**, 495-496 (2001).
- Refinement of the crystal structure of lanthanum digallide, LaGa_2 . Zeitschrift für Kristallographie - New Crystal Structures **216**, 497 (2001).

Zheng, C., O. Oeckler, H.J. Mattausch and A. Simon: $\text{La}_3\text{X}_3\text{Z}$ -compounds with condensed La_6Z octahedra helically connected in three dimensions. *Zeitschrift für Anorganische und Allgemeine Chemie* **627**, 2151-2162 (2001).

Zheng, Y.Q., K. Peters and H.G. von Schnering: Synthesis and characterization of zinc succinate, $\text{Zn}(\text{C}_4\text{H}_4\text{O}_4)$. *Chemical Research in Chinese Universities* **17**, 20-25 (2001).

Zhou, J.Y., C.J. Zhu and J. Kuhl:

- Generation of high-quality 10-femtosecond laser pulses with intracavity spatial and spectral control. *Applied Physics B* **73**, 119-123 (2001).
- Generation of high-quality sub-10 femtosecond laser pulses with intracavity spatial and spectral control. *OSA Trends in Optics and Photonics* **57**, 265 (2001).

Zhou, J.Y., C.J. Zhu, K. Schubert and J. Kuhl: High-quality sub-10 fs laser pulses generated with an intracavity hollow waveguide. *OSA Trends in Optics and Photonics* **49**, 19-21 (2001).

Zhu, C.J. siehe Zhou, J.Y.

Zhukov, A.A., P.A.J. de Groot, S. Kokkaliaris, E. Di Nicolo, A.G.M. Jansen, E. Mossang, G. Martinez, P. Wyder, T. Wolf, H. Kupfer, H. Asaoka, R. Gagnon and L. Taillefer: History effects and phase diagram near the lower critical point in $\text{YBa}_2\text{Cu}_3\text{O}_7$ single crystals. *Physical Review Letters* **87**, 017006 (2001).

Zhukovskii, Yu.F., E.A. Kotomin, B. Herschend, K. Hermansson and P.W.M. Jacobs: A first-principles study of the $\text{Ag}/\alpha\text{-Al}_2\text{O}_3$ (0001) interface. *International Journal of Molecular Science* **2**, 271-280 (2001).

Zimmermann von, M., C.S. Nelson, J.P. Hill, D. Gibbs, M. Blume, D. Casa, B. Keimer, Y. Murakami, C.C. Kao, C. Venkataraman, T. Gog, Y. Tomioka and Y. Tokura:

- X-ray resonant scattering studies of orbital and charge ordering in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$. *Physical Review B* **64**, 195133 (2001).
- X-ray resonant scattering studies of charge and orbital ordering in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$. *Journal of Magnetism and Magnetic Materials* **233**, 31-37 (2001).

Zwerschke, S.D.M. and R.R. Gerhardt: Magnetoresistance of a 2DEG in a 2D superlattice: Boltzmann theory of commensurability oscillations and their gradual suppression with increasing mobility. *Physica B* **298**, 353-358 (2001).