

**VERÖFFENTLICHUNGEN DES
MAX-PLANCK-INSTITUT FÜR FESTKÖRPERFORSCHUNG
vom 01. Januar 1999 bis 31. Dezember 1999**

Adam, W., B. Fröhling, K. Peters and S. Weinkötz: Diastereoselective episulfidation of strained cyclic alkenes by a thiophene endoperoxide versus epoxidation by dimethaldioxirane. *Journal of American Chemical Society* **120**, 8914-8919 (1998).

Adelsberger, Th. und M. Jansen: Darstellung, Kristallstruktur und magnetische Eigenschaften von $\text{In}_2\text{Ni}_{21}\text{B}_6$. *Zeitschrift für Anorganische Allgemeine Chemie* **625**, 438-442 (1999). [98.135]

Adler, P.: Charge disproportionation in iron(IV) oxides: electronic properties and magnetism in $\text{Sr}_3\text{Fe}_{2-x}\text{Ti}_x\text{O}_{7-y}$ annealed at high oxygen pressures. *Journal of Materials Chemistry* **9**, 471-477 (1999). [98.205]

Adler, P., U. Schwarz, K. Syassen, G.K. Rozenberg, G.Y. Machavariani, A.P. Milner, M.P. Pasternak and M. Hanfland: Collapse of the charge disproportionation and covalency-driven insulator-metal transition in $\text{Sr}_3\text{Fe}_2\text{O}_7$ under pressure. *Physical Review* **B60**, 4609-4617 (1999).

Ahn, J.S., J. Bak, H.S. Choi, T.W. Noh, J.E. Han, Y. Bang, J.H. Cho and Q.X. Jia: Spectral evolution in $(\text{Ca}, \text{Sr})\text{RuO}_3$ near the Mott-Hubbard transition. *Physical Review Letters* **82**, 5321 –5325 (1999). [99.051]

Ahn, K., B.J. Gibson, R.K. Kremer, H. Mattausch, A. Stolovits and A. Simon: The layered lanthanum carbide halide superconductors $\text{La}_2\text{C}_2(\text{X},\text{X}')_2$ ($\text{X},\text{X}'=\text{Cl},\text{Br},\text{I}$): Neutron powder diffraction characterization and electronic properties. *Journal of Physical Chemistry* **B103**, 5446-5453 (1999).

Ahn, K. siehe Felser, C.; Kremer, R.K.

Aichmayr, G., D. Toet, M. Mulato, P.V. Santos, A. Spangenberg, S. Christiansen, M. Albrecht and H.P. Strunk: Dynamics of lateral grain growth during the laser interference crystallization of a-Si. *Journal of Applied Physics* **85**, 4010-4023 (1999).

Albrecht, C., J.H. Smet, D. Weiss, K. von Klitzing, R. Hennig, M. Langenbuch, M. Suhrke, U. Rössler, V. Umansky and H. Schweizer: Fermiology of two-dimensional lateral superlattices. *Physical Review Letters* **83**, 2234-2237 (1999).

Albrecht, C. siehe Eroms, J.

Albert, B., M. Jansen, J. Jakobi and E. Steckhan: Synthesis and crystal structure of N-[1S,4R]-2-oxo-pinanyl]- β -alanine methylester. *Zeitschrift für Naturforschung* **53b**, 1188-1190 (1998).

Ammerlahn, D., J. Kuhl, M. Hübner, B. Grote, T. Stroucken, S.W. Koch, G. Khitrova and H. Gibbs: Temporal and spectral characteristics of radiatively coupled excitons in multiple quantum wells. *Springer Series in Chemical Physics* **63**, 239-241 (1998).

Ammerlahn, D. siehe Kuhl, J.

Aristone, F., J.C. Portal, J.F. Palmier and J.C. Harmand: Shubnikov-de Haas – like oscillations in the vertical transport of semiconductor superlattices. *Brazilian Journal of Physics* **29**, 375 (1999).

Auler, T., M. Horvatic, J.A. Gillet, C. Berthier, Y. Berthier, P. Carretta, Y. Kitaoka, P. Ségransan and J.Y. Henri: Normal state spin susceptibility in $\text{YBa}_2\text{Cu}_3\text{O}_{6.92}$ single crystal from ^{63}Cu and ^{89}Y nuclear magnetic resonance. *Physica* **C313**, 255-270 (1999).

Baitinger, M., Y. Grin, R. Kniep and H.G. von Schnering: Crystal structure of tetrarubidium tetrahydro-tetrastannide, Rb_4Sn_4 and of tetra-caesium tetrahydro-tetrastannide, Cs_4Sn_4 . *Zeitschrift für Kristallographie - New Crystal Structures* **214**, 457-458 (1999).

Baitinger, M., K. Peters, M. Somer, W. Carillo-Cabrera, Yu. Grin, R. Kniep and H.G. von Schnering: Crystal structure of tetrarubidium tetrahydro-tetraplumbide, Rb_4Pb_4 and of tetra-caesium tetrahydro-tetraplumbide, Cs_4Pb_4 . *Zeitschrift für Kristallographie - New Crystal Structures* **214**, 455-456 (1999).

Baldus, P., M. Jansen and D. Sporn: Ceramic fibers for matrix composites in high-temperature engine applications. *Science* **285**, 699-703 (1999). [99.083]

Balthes, E., M. Schiller, D. Schweitzer, I. Heinen, W. Strunz, E. Steep, A.G.M. Jansen and P. Wyder: Indications for electron localization effects in the strongly 2D organic metal κ -(BEDT-TTF)2I3 as observed by Shubnikov-de Haas experiments. *Europhysics Letters* **47**, 70-76 (1999).
- Correlation between a new frequency ($F_0=13.2$ T) and anomalous damping effects of magneto-quantum oscillations in the 2D organic superconductor κ -(BEDT-TTF)2I3. *Physica* **C317-318**, 108-116 (1999).

Balthes, E. siehe Beierlein, U.; Weiss, H.

Barentzen, H. and V. Oudovenko: A self-consistent analytic treatment of two holes in the t - J model. *Europhysics Letters* **47**, 227-232 (1999). [99.072]

Barra, A.L., L.C. Brunel, F. Baumann, M. Schwach, M. Moscherosch and W. Kaim: High-frequency (245 GHz) and X-band EPR study of stable dicopper radical complexes. *Journal of the Chemical Society, Dalton Transactions*, 3855-3857 (1999).

Barra, A.L., A. Caneschi, A. Cornia, F. Fabrizi de Biani, D. Gatteschi, C. Sangregorio, R. Sessoli and L. Sorace: Single-molecule magnet behavior of a Tetranuclear iron(III) complex. The origin of slow magnetic relaxation in iron(III) cluster. *Journal of the American Chemical Society* **121**, 5302-5310 (1999).

Barra, A.L., A. Caneschi, D. Gatteschi, D.P. Goldberg and R. Sessoli: Slow magnetic relaxation of $[\text{Et}_3\text{NH}]_2[\text{Mn}(\text{CH}_3\text{CN})_4(\text{H}_2\text{O})_2][\text{Mn}_{10}\text{O}_4(\text{biphen})_4\text{Br}_{12}](\text{biphen}=2,2'\text{-biphenoxide})$ at very low temperature. *Journal of Solid State Chemistry* **145**, 484-487 (1999).

Barra, A.L., G. Chouteau, A. Stepanov, A. Rougier and C. Delmas: High magnetic field properties and ESR of the $\text{Li}_{1-z}\text{Ni}_{1+z}\text{O}_2$ compounds. *European Physical Journal* **B7**, 551-562 (1999).

Baughman, R.H., C. Cui, A.A. Zakhidov, Z. Iqbal, J.N. Barisci, G.M. Spinks, G.G. Wallace, A. Mazzoldi, D. de Rossi, A.G. Rinzler, O. Jaschinski, S. Roth and M. Kertesz: Carbon nanotube actuators. *Science* **284**, 1340-1344 (1999).

Becker, M., M. Jansen, A. Lieb, W. Milius and W. Schnick: Synthese, Kristallstruktur und Festkörper-NMR-spektroskopische Untersuchungen von $\text{K}_5\text{H}(\text{CN})_2$. *Zeitschrift für Anorganische und Allgemeine Chemie* **624**, 113-118 (1998).

Behrens, P., St. Aßmann, U. Bilow, Chr. Linke and M. Jansen: Electronic structure of silver oxides investigated by AgL XANES spectroscopy. *Zeitschrift für Anorganische und Allgemeine Chemie* **625**, 111-116 (1999). [99.040]

Beierlein, U., C. Schlenker, J. Dumas, D. Groult, Ph. Labbé, E. Balthes and E. Steep: Transport properties of the quasi two-dimensional conductor $(\text{PO}_2)(\text{WO}_3)_{2m}$ $m=5$ with 5/5/5 regular structure. *Synthetic Metals* **103**, 2593-2595 (1999).

Benedetti, P. and R. Zeyher: Jahn-Teller distortion and electronic correlation effects in undoped manganese perovskites. *Physical Review* **B59**, 9923-9928 (1999).

Benedict, L.X., T. Wethkamp, K. Wilmers, C. Cobet, N. Esser, E.L. Shirley, W. Richter and M. Cardona: Dielectric function of wurtzite GaN and AlN thin films. *Solid State Communications* **112**, 129-133 (1999). [99.090]

Benoit, M., D. Marx and M. Parrinello: The role of quantum effects and ionic defects in high-density ice. *Solid State Ionics* **125**, 23-29 (1999).

Berghold, G., J. Hutter and M. Parrinello: Grid-free DFT implementation of local and gradient-corrected XC functionals. *Theoretical Chemistry Accounts* **99**, 344-346 (1998). [98.062]

Bernhard, C., D. Munzar, M. Kläser, Th. Wolf, C.T. Lin and M. Cardona: The electronic c-axis conductivity of $Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ single crystals studied by far-infrared ellipsometry. *Physica* **C317-318**, 276-281 (1999).

Bernhard, C., D. Munzar, A. Wittlin, W. König, A. Golnik, C.T. Lin, M. Klaser, T. Wolf, G. Müller-Vogt and M. Cardona: Far-infrared ellipsometric study of the spectral gap in the c-axis conductivity of $Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ crystals. *Physical Review* **B59**, R6631-R6634 (1999). 98.134]

Bernhard, C., J.L. Tallon, Ch. Niedermayer, Th. Blasius, A. Golnik, E. Brucher, R.K. Kremer, D.R. Noakes, C.E. Stronach and E.J. Ansaldo: Coexistence of ferromagnetism and superconductivity in the hybrid ruthenate-cuprate compound $RuSr_2GdCu_2O_8$ studied by muon spin rotation and dc magnetization. *Physical Review* **B59**, 14099-14107 (1999). [98.242]

Bernhard, C. siehe Blasius, T.; Golnik, A.; Hadjiev, V.G.; Lin, C.T.; Martin, A.A.; Munzar, D.; Niedermayer, Ch.; Stronach, C.E.; Tallon, J.L.

Bill, J., F. Aldinger, G. Petzow, M. Sloma, J. Maier and R. Riedel: Electrical conductivity of amine-borane-derived boron carbide nitride. *Journal of Materials Science Letters* **18**, 1513-1516 (1999).

Billas, I.M.L., W. Branz, N. Malinowski, F. Tast, M. Heinebrodt, T.P. Martin, C. Massobrio, M. Boero and M. Parrinello: Experimental and computational studies of heterofullerenes. *Nanostructured Materials* **12**, 1071-1076 (1999).

Billas, I.M.L., C. Massobrio, M. Boero, M. Parrinello, W. Branz, F. Tast, N. Malinowski, M. Heinebrodt and T.P. Martin: First principles calculations of Si doped fullerenes: Structural and electronic localization properties in $C_{59}Si$ and $C_{58}Si_2$. *Journal of Chemical Physics* **111**, 6787-6796 (1999). [99.044]

Binder, H., R. Kellner, K. Vaas, M. Hein, F. Baumann, M. Wanner, R. Winter, W. Kaim, W. Hönle, Y. Grin, U. Wedig, M. Schultheiss, R.K. Kremer, H.G. von Schnering, O. Groeger and G. Engelhardt: The *closo*-cluster triad: B_9X_9 , $[B_9X_9]^{2-}$ with tricapped trigonal prisms (X = Cl, Br, I). Syntheses, crystals and electronic structures. *Zeitschrift für Anorganische Allgemeine Chemie* **625**, 1059-1072 (1999).

Birmingham, J.T., S.M. Grannan, P.L. Richards, J. Kircher, M. Cardona and A. Wittlin: Optical absorptivity of $La_{1.87}Sr_{0.13}CuO_4$ below the superconducting plasma edge. *Physical Review* **B59**, 647-654 (1999). [98.142]

Blasius, T., Ch. Niedermayer, J. Schiessling, U. Bolz, J. Eisenmenger, B.-U. Runge, P. Leiderer, J.L. Tallon, D.M. Pooke, A. Golnik, C.T. Lin and C. Bernhard: Investigations of the Vortex matter in $Bi_2Sr_2Ca_1Cu_2O_{8+\delta}$ single crystals. In: *High Temperature Superconductivity*, (Eds.) S.E. Barnes et al. AIP, New York 1999, 201-205.

- Blasius, T., Ch. Niedermayer, J.L. Tallon, D.M. Pooke, A. Golni and C. Bernhard:* Evidence for a two-stage melting transition of the Vortex matter in $\text{Bi}_2\text{Sr}_2\text{Ca}_1\text{Cu}_2\text{O}_{8-\delta}$ single crystals obtained by muon spin rotation. *Physical Review Letters* **82**, 4926-4929 (1999).
- Blasius, T., Ch. Niedermayer, J.L. Tallon, D.M. Pooke, A. Golnik, D.R. Noakes, C.E. Stronach, E.J. Ansaldo, R.W. Henn, C.T. Lin and C. Bernhard:* Muon spin rotation studies of the Vortex matter in the high- T_c superconductor $\text{Bi-Sr}_2\text{CaCu}_2\text{O}_{8-\delta}$. *Acta Physica Polonica* **A96**, 245-258 (1999).
- Blick, R.H., D.W. van der Weide, R.J. Haug and K. Eberl:* Complex broadband millimeter wave response of a double quantum dot: Rabi oscillations in an artificial molecule. *Physical Review Letters* **81**, 689-692 (1998).
- Blumentritt, S., M. Burghard and S. Roth:* Self-assembly of ropes of cyanine dye molecules. *AIP Conference Proceedings* **442**, 460-463 (1998). [98.116]
- Böhm, A., J. Heil, M. Primke, A. Groeger, P. Keppler, J. Major and P. Wyder:* Imaging of ballistic carrier transport in tungsten single crystals. *Physical Review* **B60**, 2468-2475 (1999).
- Bolle, U., W. Carrillo-Cabrera, K. Peters and H.G. von Schnering:* Crystal structure of tetrastrontium dilithium hexasilicide(10-), $\text{Sr}_4\text{Li}_2\text{Si}_6$. *Zeitschrift für Kristallographie - New Crystal Structures* **213**, 689 (1998). [98.189]
- Bourges, Ph., Y. Sidis, H.F. Fong, B. Keimer, L.P. Regnault, J. Bossy, A.S. Ivanov, D.L. Milius and I.A. Aksay:* Spin dynamics in high- T_c superconductors. In: *High Temperature Superconductivity*, (Eds.) S.E. Barnes et al. AIP, New York 1999, 207-210 (1999).
- Bozkurt, A., M. Ise, K.D. Kreuer, W.H. Meyer and G. Wegner:* Proton-conducting polymer electrolytes based on phosphoric acid. *Solid State Ionics* **125**, 225-233 (1999).
- Bracht, H., E.E. Haller, K. Eberl and M. Cardona:* Self- and interdiffusion in $\text{Al}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ isotope heterostructures. *Applied Physics Letters* **74**, 49-51 (1999). [98.103]
- Bracht, H., E.E. Haller, K. Eberl, M. Cardona and R.Clark-Phelps:* Self-diffusion in isotopically controlled heterostructures of elemental and compound semiconductors. In: *Diffusion Mechanisms in Crystalline Materials*, (Ed.) Y. Mishin. MRS, Warrendale 1998, 335-346. [98.128]
- Bracht, H., M. Norseng, E.E. Haller, K. Eberl and M. Cardona:* Enhanced and retarded Ga self-diffusion in Si and Be doped GaAs isotope heterostructures. *Solid State Communications* **112**, 301-314 (1999).
- Braun, M., M. Christl, O. Deeg, M. Rudolph, E.-M. Peters and K. Peters:* Photocycloadditions of chloranil to homobenzvalene, norbornadiene and quadricyclane. *European Journal of Organic Chemistry* **1999**, 2093-2102 (1999).
- Branz, W. siehe Billas, I.M.L.; Heinebrodt, M.; Martin, T.P.
- Braun, M., M. Christl, E.-M. Peters and K. Peters:* Photochemical reactions of chloranil with norbornene, bicyclo[2.1.1]hex-2-ene and cyclopentene. A novel intermolecular photocycloaddition. *Journal of the Chemical Society, Perkin Transactions* **1**, 2813-2820 (1999).
- Brillante, A., R.G. Della Valle, C. Polizzi and K. Syassen:* Pressure-induced phase transitions in quasi-one-dimensional anthracene derivatives. *Physica* **B265**, 199-202 (1999).
- Bringmann, G., M. Breuning, St. Tasler, H. Endress, Chr.L.J. Ewers, L. Göbel, K. Peters and E.-M. Peters:* Atropo-diastereoselective cleavage of configurationally unstable biaryl lactones with alkali metal activated primary 1-arylethylamines. *Chemical European Journal* **5**, 3029-3038 (1999). [99.048]

- Bringmann, G., M. Breuning, R. Walter, A. Wuzik, K. Peters and E.-M. Peters: Novel concepts in directed biaryl synthesis. 80^[F]. Synthesis of axially chiral biaryls by atropo-diastereoselective cleavage of configurationally unstable biaryl lactones with menthol-derived *O*-nucleophiles. *European Journal of Organic Chemistry* **1999**, 3047-3055 (1999).
- Bringmann, G., M. Ochse, K. Wolf, J. Kraus, K. Peters, E.-M. Peters, M. Herderich, L. Aké Assi, F.S.K. Tayman: 4-oxonicotinamide-1-(1'-β-D-ribofuranoside from *Rothmannia longiflora* Salisb. (Rubiaceae). *Phytochemistry* **51**, 271-276 (1999). [98.283]
- Bringmann, G., W. Saeb, R. God, M. Schäfer, G. Francois, K. Peter, E.-M. Peters, P. Proksch, K. Hostettmann and L. Aké Assi: 5'-*O*-demethylidiocophylline A, a new antimalarial alkaloid from *triphyphyllum peltatum*. *Photochemistry* **49**, 1667-1673 (1998).
- Brötz, J., H. Fuess, T. Haage, J. Zegenhagen, Ch. Jooss, A. Forkl and R. Warthmann: Anisotropic defect structure and transport of YBa₂Cu₃O_{7-δ} films on vicinal SrTiO₃(001). *Journal of Applied Physics* **85**, 635-637 (1999). [98.230]
- Brown, R.S., M. Christl, A.J. Lough, J. Ma, E.-M. Peters, K. Peters, F. Samtleben, H. Slebocka-Tilk, K. Sung and Th.T. Tidwell: Addition of bromine to ketenes and bisketenes: electrophilic attack at carbonyl carbon and neighboring group participation. *Journal of Organic Chemistry* **63**, 6000-6006 (1998). [98.06]
- Brugé, F., M. Bernasconi and M. Parrinello: Density-functional study of hydration of ammonium in water clusters. *Journal of Chemical Physics* **110**, 4734-4736 (1999).
- Brune, H., G.St. Bales, J. Jacobsen, C. Boragno and K. Kern: Measuring surface diffusion from nucleation island densities. *Physical Review* **B60**, 5991-5996 (1999).
- Brunner, K., O.G. Schmidt, W. Winter, K. Eberl, M. Gluck and U. König: SiGeC: Band gaps, band offsets, optical properties, and potential applications. *Journal of Vacuum Science and Technology*, **B16**, 1701-1706 (1998).
- Bürgi, L., O. Jeandupeux, H. Brune and K. Kern: Probing hot-electron dynamics at surfaces with a cold scanning tunneling microscope. *Physical Review Letters* **82**, 4516-4519 (1999).
- Bürgi, L. siehe Jeandupeux, O.
- Burghard, M., V. Krstic, G.S. Duesberg, G. Philipp, J. Muster, S. Roth, C. Journet and P. Bernier: Carbon SWNTs as wires and structural templates between nanoelectrodes. *Synthetic Metals* **103**, 2540-2542 (1999).
- Burghard, M., C. Müller-Schwanneke, G. Philipp and S. Roth: Coulomb blockade phenomena in ultrathin Langmuir-Blodgett sandwich junctions. *Journal of Physics: Condensed Matter* **11**, 2993-3002 (1999). [98.296]
- Burghard, M., J. Muster, G. Duesberg, G. Philipp, V. Krstic and S. Roth: Assembling techniques for micellar dispersed carbon single-walled nanotubes. *AIP Conference Proceedings* **442**, 44-49 (1998). [98.114]
- Burghard, M., G. Philipp, S. Roth, K. von Klitzing, R. Pugin and G. Schmid: Multilayered Langmuir-Blodgett films of thiol-substituted ultrasmall gold clusters. *Advanced Materials* **10**, 842-845 (1998).
- Burghard, M. siehe Blumentritt, S.; Duesberg, G.S.; Kasumov, A.; Kim, G.T.; Liu, K.; Muster, J.; Philipp, G.
- Bussmann-Holder, A.: How could an isotope effect on T_n change the physics of HTSC?. *International Journal of Modern Physics* **B12**, 3080-3082 (1998).
- Anharmonicity induced cooperative proton ordering in H-bonded systems. *Physica* **B263-264**, 643-646 (1999).

- Local structural anomalies in perovskite-type lattices. *Physica* **B263-264**, 408-411 (1999).
- Local structural distortions, discommensurations, stripes and precursor domains in ferroelectric perovskites. *Ferroelectrics* **229**, 57-62 (1999).

Bussmann-Holder, A. and A.R. Bishop: Competing interactions and the isotope effect in colossal magnetoresistance materials. *Philosophical Magazine* **B79**, 119-125 (1999).

Bussmann-Holder, A. and K.-H. Michel: The isotope effect in hydrogen-bonded systems. *International Journal of Modern Physics* **B12**, 3406-3408 (1998).

Bussmann-Holder, A. siehe Dalal, N.; Krämer, S.

Callegari, A., J. Rebstein, J.S. Muentner, R. Jost and T.R. Rizzo: The spectroscopy and intramolecular vibrational energy redistribution dynamics of HOCl in the $\nu_{OH} = 6$ region, probed by infrared-visible double resonance overtone excitation. *Journal of Chemical Physics* **111**, 123-133 (1999).

Cao, L. and J. Zegenhagen: Elemental substitution and strain in $\text{RBa}_2\text{Cu}_3\text{O}_{7-\delta}$ superconducting thin films. *Physica Status Solidi* **B215**, 587-590 (1999).

Cappelluti, E., A. Perali and G. Varelogiannis: The meaning of strange momentum structures in the gap. *Physica* **C317-318**, 592-595 (1999).

Capinski, W.S., M. Cardona, D.S. Katzer, H.J. Maris, K. Ploog and T. Ruf: Thermal conductivity of GaAs/AlAs superlattices. *Physica* **B263-264**, 530-532 (1999). [98.196]

Capinski, W.S., H.J. Maris, T. Ruf, M. Cardona, K. Ploog and D.S. Katzer: Thermal conductivity measurements of GaAs/AlAs superlattices using a picosecond optical pump-and-probe technique. *Physical Review* **B59**, 8105-8113 (1999). [98.289]

Cappelluti, E. and R. Zeyher: Competition of an incommensurate flux phase and superconductivity in a t - J model with Coulomb interactions. *Physica* **C312**, 313-320 (1999). [98.209]

- Flux phase and its competition with superconductivity in the t - J model. *Journal of Superconductivity* **12**, 233-235 (1999). [98.108]

- Interplay between superconductivity and flux phase in the t - J model. *Physical Review* **B59**, 6475-6486 (1999). [98.107]

- Violation of Luttinger's theorem in strongly correlated electronic systems within a $1/N$ expansion. *International Journal of Modern Physics* **B13**, 2607-2627 (1999). [99.027]

Cardona, M.: Phonons in isotopically modified semiconductors and high T_c superconductors. *Physica* **B263-264**, 376-380 (1999). [98.197]

- Raman scattering in high T_c superconductors: phonons, electrons, and electron-phonon interaction. *Physica* **C317-318**, 30-54 (1999). [99.08]

Cardona, M., L.F. Lastras-Martinez and D.E. Aspnes: Comment on "Ab initio calculation of excitonic effects in the optical spectra of semiconductors". *Physical Review Letters* **83**, 3970 (1999). [99.063]

Cardoso Gil, R., W. Carrillo-Cabrera, M. Schultheiss, K. Peters and H.G. von Schnering: New examples for the unexpected stability of the 10π -electron Hückel arene $[\text{Si}_6]^{10-}$. *Zeitschrift für Anorganische und Allgemeine Chemie* **625**, 285-293 (1999). [98.236]

Carrillo-Cabrera, W., J. Curda, K. Peters and H.G. von Schnering: $\text{La}_4[(\text{C}_2)_{1-x}\text{Ge}_x]_3$, lanthanum(III) dicarbide(4-) germanide(4-) mixed crystals: a continuous transition between the cubic structure types cI40 ($\text{Rb}_4\text{O}_6/\text{Pu}_2\text{C}_3$) and cI28 (Th_3P_4). *Journal of Solid State Chemistry* **147**, 372-378 (1999).

Carrillo-Cabrera, W. and H.G. von Schnering: Pentastrontium tris[tetraoxovanadate(V)]catena-monoxocuprate(I), $\text{Sr}_5(\text{VO}_4)_3(\text{CuO})$. An apatite derivative with inserted linear $1\infty[\text{CuO}]^-$ chains. *Zeitschrift für Anorganische und Allgemeine Chemie* **625**, 183-185 (1999). [98.237]

Casa, D., V. Kiryukhin, O.A. Saler, B. Keimer, J.P. Hill, Y. Tomioka and Y. Tokura: Persistent X-ray photoconductivity and percolation of metallic clusters in charge-ordered manganites. *Europhysics Letters* **47**, 90-96 (1999).

Cavazzoni, C., G.L. Chiarotti, S. Scandolo, E. Tosatti, M. Bernasconi and M. Parrinello: Superionic and metallix states of water and ammonia at giant planet conditions. *Science* **283**, 44-46 (1999).

Chaboussant, G., M.H. Julien, Y. Fagot-Revurat, M. Hanson, L.P. Levy, C. Berthier, M. Horvatic and O. Piovesana: Zero temperature phase transitions in spin-ladders: Phase diagram and dynamical studies of $\text{Cu}_2(\text{C}_5\text{H}_{12}\text{N}_2)_2\text{Cl}_4$. *European Physical Journal* **B6**, 167-181 (1998).

Chandra, A., A. Spangenberg and J. Maier: Electrical conductivity studies of $\text{AgCl}:\text{KCl}$ (RbCl , CsCl) composites and a novel method of obtaining highly porous materials. *Journal of Electroceramics* **3**, 47-52 (1999). [98.140]

Chang, J.-H. and J. Köhler: Crystal structure of tin(II) dioxodecafluorostannate(IV), $\text{Sn}_4\text{O}_2\text{F}_{10}$. *Zeitschrift für Kristallographie - New Crystal Structures* **214**, 147-148 (1999).

Christl, M., N. Bien, G. Bodenschatz, E. Feineis, J. Hegmann, C. Hofmann, S. Mertelmeyer, J. Ostheimer, F. Samtleben, S. Wehner, E.-M. Peters, K. Peters, M. Pfeiffer and D. Stalke: Cyclopenta[c]pyrans from 6-oxo-6H-1,3,4-oxadiazines. *Chemical Communications*, 2387-2388 (1998). [98.120]

Conder, K. siehe Krämer, S.

Cornia, A., M. Affronte, A.G.M. Jansen, G.L. Abbati and D. Gatteschi: Tuning of magnetic anisotropy in hexairon(III) rings by host-guest interactions: an investigation by high-field torque magnetometry. *Angewandte Chemie* **38**, 2264-2266 (1999).

Cornia, A., A.G.M. Jansen and M. Affronte: High-field torque magnetometry on Fe_6 and Fe_{10} molecular magnets. *Molecular Crystals and Liquid Crystals* **335**, 113 (1999).
– Magnetic anisotropy of Fe_6 and Fe_{10} molecular rings by cantilever torque magnetometry in high magnetic fields. *Physical Review* **B60**, 12177—12183 (1999).

Cordier, S. and A. Simon: The first chlorofluoride in niobium cluster chemistry structure of the double salt: $\text{Na}_x\text{Nb}_7\text{F}_{21-y}\text{Cl}_y$ ($x \sim 2$; $y \sim 8$). *Solid State Sciences* **1**, 199-209 (1999).

Cuoco, M., P. Horsch and F. Mack: Theoretical study of the optical conductivity of α' - NaV_2O_5 . *Physical Review* **B60**, R8438-R8441 (1999). [99.07]

Czech, E., G. Götz, G. Cristiani and M. Konuma: Residual impurities in high purity GaAs layers grown by liquid phase epitaxy in H_2 -Ar atmosphere. *Journal of Crystal Growth* **198-199**, 1087-1091 (1999).

Dalal, N., A. Klymachyov and A. Bussmann-Holder: Coexistence of order-disorder and displacive features at the phase transitions in hydrogen-bonded solids: squaric acid and its analogs. *Physical Review Letters* **81**, 5924-5927 (1998).

De Brion, S., G. Chouteau and P. Lejay: Polarons in $\text{La}_{0.97}\text{MnO}_3$. *Physica* **B259-261**, 818-819 (1999).

De Brion, S., F. Ciorcas, G. Chouteau, P. Lejay, P. Radaelli and C. Chaillout: Magnetic and electric properties of $\text{La}_{1-\delta}\text{MnO}_3$. *Physical Review* **B59**, 1304-1310 (1999).

Debernardi, A.: Anharmonic effects in the phonons of III-V semiconductors: First principles calculations. *Solid State Communications* **113**, 1-10 (1999). [98.263]

Debernardi, A. and M. Cardona: Dependence of phonon linewidths in semiconductors on temperature and isotopic composition. *Nuovo Cimento* **D**, 923-930 (1998). [98.053]
- First principles calculation of the real part of phonon self energy in compound semiconductors. *Physica* **B263-264**, 687-690 (1999). [98.129]

Debernardi, A., C. Ulrich, K. Syassen and M. Cardona: Raman linewidths of optical phonons in 3C-SiC under pressure: First-principles calculations and experimental results. *Physical Review* **B59**, 6774-6783 (1999). [98.175]

Deibele, S. and M. Jansen: Bismuth in Ag_2BiO_3 : tetravalent or internally disproportionated?. *Journal of Solid State Chemistry* **147**, 117-121 (1999). [98.277]

Delon, A. and R. Jost: The NO_2 vibronic levels near the $X_2A_1-A_2B_2$ conical intersection: Jet cooled laser induced fluorescence between 11 680 and 13 900 cm^{-1} . *Journal of Chemical Physics* **110**, 4300-4308 (1999).

Delon, A., S. Heilliette and R. Jost: 'Anomalous' density of states and rotational selection rules of loosely bound states of NO_2 . *Chemical Physics* **238**, 465-472 (1998).

Dietsche, W. siehe Harff, N.E.; Kronmüller, S.; Msall, M.E.; Roshko, S.; Rubel, H.

Doering, U., D. Hänssgen, M. Jansen, M. Nieger und A. Tellenbach: Stannylierungsexperimente mit NH-funktionellen Aminoiminophosphoranen. Synthese und Struktur der tricyclischen Stannaphosphazene $[\text{Me}_2\text{Sn}(\text{}^t\text{Bu}_2\text{PN})\text{NH}]_2$ und $[\text{}^m\text{Bu}_2\text{Sn}(\text{Ph}_2\text{PN})_2\text{NH}]_2$. *Zeitschrift für Anorganische und Allgemeine Chemie* **624**, 965-969 (1998).

Dorfman, S., D. Fuks, A. Gordon, E.A. Kotomin and P. Wyder: Magnetic-field- and alloying induced wetting of the ferroelectric domain structure in some smart materials. *Physical Review* **B60**, R9927-R9930 (1999).

Dubrovskii, Yu.V., E.E. Vdovin, Yu.N. Khanin, V.G. Popov, D.K. Maude, J.C. Portal, J.K. Maan, T.G. Andersson and S. Wang: Suppression of the equilibrium tunneling current between slightly disordered two-dimensional electron systems with different electron concentrations in a high magnetic field. *JETP Letters* **69**, 255-261 (1999).

Dubrovskii, Yu.V., E.E. Vdovin, Yu.N. Khanin, V.G. Popov, D.K. Maude, J.C. Portal, J.K. Maan, K. Wang, A. Balandin, T.G. Andersson and S. Wang: Resonant and correlation effects in tunnel structures with sequential 2D electron layers in a high magnetic field. *Physics of Low-Dimensional Structures* **3-4**, 181-190 (1999).

Duesberg, G.S., W.J. Blau, H.J. Byrne, J. Muster, M. Burghard and S. Roth: Experimental observation of individual single-wall nanotube species by raman microscopy. *Chemical Physics Letters* **310**, 8-14 (1999).
- Chromatography of carbon nanotubes. *Synthetic Metals* **103**, 2484-2485 (1999).

Duesberg, G.S., J. Muster, M. Burghard, H.J. Byrne and S. Roth: Surface enhanced raman spectroscopy of single wall carbon nanotubes. In: *Electronic Properties of Novel Materials-Science and Technology of Molecular Nanostructures*, (Eds.) H. Kuzmany et al. AIP, New York 1999, 338-341.

Duesberg, G.S., J. Muster, H.J. Byrne, S. Roth and M. Burghard: Towards processing of carbon nanotubes for technical applications. *Applied Physics A*, 269-274 (1999). [99.107]

- Duschl, R., O.G. Schmidt, G. Reitemann, E. Kasper and K. Eberl: High room temperature peak-to-valley current ratio in Si based Esaki diodes. *Electronics Letters* **35**, 1111-1112 (1999).
- Duschl, R., O.G. Schmidt, W. Winter, K. Eberl, M.W. Dashiell, J. Kolodzey, N.Y. Jin-Phillipp and F. Phillipp: Growth and thermal stability of pseudomorphic $\text{Ge}_{1-y}\text{C}_y/\text{Ge}$ superlattices on Ge(001). *Applied Physics Letters* **74**, 1150-1152 (1999).
- Duschl, R., H. Seeberger and K. Eberl: Hole mobilities in pseudomorphic $\text{Si}_{1-x-y}\text{Ge}_x\text{C}_y$ alloy layers. *Thin Solid Films* **336**, 336-339 (1998). [98.109]
- Eaves, L., H.M. Murphy, A. Nogaret, S.T. Stoddart, P.C. Main, M. Henini, N. Mori, C. Hamaguchi, D.K. Maude and J.C. Portal: Magnetic field quenching of miniband conduction and resonant hopping effects in quasi-one-dimensional superlattices. *Physica* **B272**, 190-193 (1999)..
 – The influence of high magnetic fields and electron transport in semiconductor superlattices. In: Proceedings of the 4th International Symposium on Advanced Physical Fields: Quantum Phenomena in Advanced Materials at High Magnetic Fields, (Ed.) G. Kido. Science and Technology Agency, Tsukuba 1999, 1-3.
- Eberl, K., K. Brunner and O.G. Schmidt: $\text{Si}_{1-y}\text{C}_y$ and $\text{Si}_{1-x-y}\text{Ge}_x\text{C}_y$ alloy layers. *Semiconductors and Semimetals* **56**, 387-422 (1999).
- Eberl, K., M. Lipinski and H. Schuler: Atomic layer in situ etching and MBE regrowth. *Journal of Crystal Growth* **201-202**, 568-573 (1999). [98.207]
- Eberl, K., O.G. Schmidt, O. Kienzle and F. Ernst: Preparation and optical properties of Ge and C-induced Ge quantum dots on Si. *Materials Research Society Symposium Proceedings* **570**, 187-195 (1999). [99.112]
 - Self-assembling Si/SiGe nanostructures for light emitters. *Diffusion and Defect Data* **B69-70**, 13-22 (1999).
- Eberl, K., M.K. Zundel, J.Y. Jin-Phillipp, F. Phillipp, T. Riedl, E. Fehrenbacher and A. Hangleiter: Preparation of red light emitting self-assembling InP/GaInP quantum dot lasers. In: *Lattice Mismatched Thin Films, Proceedings of the 1st International Workshop on Lattice-Mismatched Heterovalent Thin Film Epitaxy*, (Ed.) E. A. Fitzgerald. Minerals, Metals & Materials Society, Warrendale 1999, 107-112.
- Eberl, K. siehe Blick, R.H.; Bracht, H.; Brunner, K.; Duschl, R.; Göbel, A.; Harff, N.E.; Kaya, I.I.; Kirpichev, V.E.; Kukushkin, I.V.; Lastras-Martinez, L.F.; Liu, Z.H.; Murzin, S.S.; Nachtwei, G.; Rubel, H.; Sapega, V.F.; Schmidt, O.G.; Schuler, H.; Sirenko, A.A.; Vasilyev, Yu.; Vasilyev, Yu.B.; Wei, Y.Y.; Zundel, M.K.
- Eichinger, M., P. Tavan, J. Hutter and M. Parrinello: A hybrid method for solutes in complex solvents: density functional theory combined with empirical force fields. *Journal of Chemical Physics* **110**, 10452-10467 (1999).
- Eickelkamp, T., S. Roth and M. Mehring: Electrically detected magnetic resonance in photoexcited fullerenes. *Molecular Physics* **95**, 967-972 (1998).
- Engelhardt, J., M. Asen-Palmer, C. Kleeberg, M. Annaorazov, A. Kattwinkel, K. Barner and E. Gmelin: Field dependent specific heat capacity of $\text{Mn}_{2-x}\text{Cr}_x\text{Sb}$ single crystals. *Physica Status Solidi* **B211**, 789-799 (1999).
- Engelhardt, J., E. Gmelin, M. Asen-Palmer, C. Kleeberg, A. Kattwinkel and K. Barner: Thermal expansion of $\text{Mn}_{2-x}\text{Cr}_x\text{Sb}$ single crystals. *Journal of Alloys and Compounds* **282**, 32-37 (1999). [98.271]
- Eroms, J., M. Zitzlsperger, D. Weiss, J.H. Smet, C. Albrecht, R. Fleischmann, M. Behet, J. de Boeck and G. Borghs: Skipping orbits and enhanced resistivity in large diameter InAs/GaSb antidot lattices. *Physical Review* **B59**, R7829-R7832 (1999).

- Fal'ko, V.I. and S.V. Iordanskii:* Topological defects and Goldstone excitations in domain walls between ferromagnetic quantum Hall liquids. *Physical Review Letters* **82**, 402-405 (1999).
- Farid, B.:* A Lüttinger's theorem revisited. *Philosophical Magazine* **B79**, 1097-1143 (1999).
- A note on the many-body perturbation theory. *Philosophical Magazine Letters* **79**, 581-593 (1999).
- Farid, B., K. Yokoyama and H. Fukuyama:* Comment on "One-particle excitation of the two-dimensional Hubbard model" [and reply]. *Journal of the Physical Society of Japan* **68**, 1784-1786 (1999).
- Feiner, L.F. and A.M. Olés:* Electronic origin of magnetic and orbital ordering in insulating LaMnO₃. *Physical Review* **B59**, 3295-3298 (1999). [98.264]
- Magnetic and orbital ordering in the manganites. *Physica* **B259-261**, 796-798 (1999).
- Feklisova, O.V., E.B. Yakimov, N.A. Yarykin and J. Weber:* Low temperature hydrogenation of dislocated Si. *Materials Science and Engineering* **B58**, 60-63 (1999).
- Felser, C., K. Ahn, R.K. Kremer, R. Seshadri and A. Simon:* Giant negative magnetoresistance in GdI₂: prediction and realization. *Journal of Solid State Chemistry* **147**, 19-25 (1999). [98.268]
- Finkeisen, E., M. Potemski, P. Wyder, L. Vina and G. Weimann:* Cooling of a semiconductor by luminescence up-conversion. *Applied Physics Letters* **75**, 1258-1260 (1999).
- Fischer, B., H. Brune, J.V. Barth, A. Fricke and K. Kern:* Nucleation kinetics on inhomogeneous substrates: Al/Au(111). *Physical Review Letters* **82**, 1732-1735 (1999).
- Fischer, S.F., M. Kelsch and H. Kronmüller:* Optimization of magnetostriction, coercive field and magnetic transition temperature in nanocrystalline TbDyFe⁺Zr/Nb multilayers. *Journal of Magnetism and Magnetic Materials* **195**, 545-554 (1999).
- Fleck, M., A.I. Lichtenstein and A. M. Oles:* Metallic stripes in doped Hubbard model. *AIP Conference Proceedings* **483**, 45-52 (1999). [99.180]
- Fleck, M., A.I. Lichtenstein, A.M. Oles and L. Hedin:* Optical properties of doped antiferromagnets. *Journal of Superconductivity* **12**, 147-149 (1999).
- Spectral and transport properties of doped Mott-Hubbard systems with incommensurate magnetic order. *Physical Review* **B60**, 5224-5243 (1999). [99.034]
- Fleck, M., J. van den Brink, A.I. Lichtenstein, A.M. Oles and L. Hedin:* Quasiparticle broadening in insulating copper oxides. *Physica* **B259-261**, 729-731 (1999).
- Fleig, J. and J. Maier:* A finite element study on the grain boundary impedance of different microstructures. *Journal of the Electrochemical Society* **145**, 2081-2089 (1998).
- Microcontact impedance measurements of individual highly conductive grain boundaries: General aspects and application to AgCl. *Physical Chemistry, Chemical Physics* **1**, 3315-3320 (1999). [99.050]
- The impedance of ceramics with highly resistive grain boundaries: validity and limits of the brick layer model. *Journal of the European Ceramic Society* **19**, 693-696 (1999). [98.213]
- Fleig, J., P. Pham, P. Sztulzaft and J. Maier:* Inhomogeneous current distributions at grain boundaries and electrodes and their impact on the impedance. *Solid State Ionics* **113-115**, 739-747 (1998). [98.026]
- Fleig, J. siehe Rodewald, S.

Fong, H.F., P. Bourges, Y. Sidis, L.P. Regnault, J. Bossy, A. Ivanov, D.L. Milius, I.A. Aksay and B. Keimer: Effect of nonmagnetic impurities on the magnetic resonance peak in $\text{YBa}_2\text{Cu}_3\text{O}_7$. *Physical Review Letters* **82**, 1939-1943 (1999).

Fong, H.F., P. Bourges, Y. Sidis, L.P. Regnault, A. Ivanov, G.D. Gu, N. Koshizuka and B. Keimer: Neutron scattering from magnetic excitations in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. *Nature* **398**, 588-589 (1999).

Fong, H.F., B. Keimer, J.W. Lynn, A. Hayashi and R.J. Cava: Spin structure of the doped quasi-one-dimensional copper oxide $\text{Ca}_2\text{Y}_2\text{Cu}_5\text{O}_{10}$. *Physical Review* **B59**, 6873-6877 (1999).

Frank, I., D. Marx and M. Parrinello: First-principles molecular dynamics study of a photochromic molecular crystal. *Journal of Physical Chemistry* **A103**, 7341-7344 (1999). [99.024]

Franke, R., St. Bender, H. Jünger, M. Kroschel and M. Jansen: The determination of structural units in amorphous Si-B-N-C ceramics by means of Si, B, N and C K-XANES spectroscopy. *Journal of Electron Spectroscopy and Related Phenomena* **101-103**, 641-645 (1999).

Franke, R., C. Girgenrath, S. Kohn and M. Jansen: An X-ray photoelectron spectroscopy study of novel SiON glasses. *Fresenius Journal of Analytical Chemistry* **361**, 587-590 (1998).

Freger, V., E. Korin, J. Wisniak, E. Korngold, M. Ise and K.D. Kreuer: Diffusion of water and ethanol in ion-exchange membranes: limits of the geometric approach. *Journal of Membrane Science* **160**, 213-224 (1999). [98.309]

Friede, B. und M. Jansen: Darstellung und Kristallstruktur von Hexacaesium-hexatelluridodigermanat(III) ($\text{Cs}_6\text{Ge}_2\text{Te}_6$). *Zeitschrift für Naturforschung* **54b**, 1095-1097 (1999). [99.115]
– $\text{Cs}_6\text{Sn}_2\text{Te}_6$, a new telluridodistannate(III). *Acta Crystallographica* **C55**, 282-284 (1999).

Funke, K., D. Wilmer, R.D. Banhatti, M. Witschas, R.E. Lechner, J. Fitter, M. Jansen and G. Korus: Interplay between anion rotation and cation transport in the plastic high-temperature phase of sodium ortho-phosphate. *Materials Research Society Symposium Proceedings* **527**, 469-480 (1998). [98.294]

Gassot, P., U. Gennser, D.M. Symons, A. Zaslavsky, D.A. Grutzmacher and J.C. Portal: Stress and pressure effects on a Si/SiGe double-barrier structure studied by magnetotunnelling spectroscopy. *Physica* **E2**, 758-762 (1998).

Gastreich, M., Chr.M. Marian, H. Jünger and M. Jansen: Molecular precursors to ceramics $\text{II}^{[2]}$ [(Trichlorosily)dichloroboryl]ethane: synthesis and characterisation by means of experiment and theory. *European Journal of Inorganic Chemistry* **1999**, 75-81 (1999). [99.041]

Genzel, L.: Far-infrared Fourier transform spectroscopy. *Topics in Applied Physics* **74**, 169-220 (1998). [98.223]

Gerhardts, R.R. and J. Gross: Current distribution in antidot arrays close to the quantum Hall regime. *Physical Review* **B60**, 2561-2570 (1999). [98.304]

Gerhardts, R.R. siehe Liu, Z.H.; Zwerschke, S.D.M.

Gibson, B.J. siehe Ahn, K.

Giehler, M., T. Ruf, M. Cardona and K.H. Ploog: Standing acoustic waves in GaAs/AlAs mirror-plane superlattices and cavity structures studied by Raman spectroscopy. *Physica* **B263-264**, 489-491 (1999). [98.126]

Giessen, H., A. Christ, A. Wagner, D. Nau, A. Euteneuer, W.W. Rühle, J. Kuhl, E. Mecher and K. Meerholz: Femtosecond time-reversal in photorefractive polymers. In: Summaries of Papers Presented at the Conference on Lasers and Electro-Optics. OSA, Washington 1999, 48-49.

Giessen, H., A. Knorr, St.W. Koch, St. Linden, J. Kuhl, M. Hetterich and M. Grün: Pulse breakup due to coherent self-induced transmission on a free exciton resonance. Springer Series in Chemical Physics **63**, 242-244 (1998).

Giessen, H., St. Linden, J. Kuhl, A. Knorr, St.W. Koch, M. Hetterich, M. Grün and C. Klingshirn: Coherent propagation at high intensities on a free exciton resonance in a semiconductor: self-induced transmission. Superlattices and Microstructures **26**, 104-115 (1999).

- High-intensity pulse propagation in semiconductors: on-resonant self-induced transmission and effects in the continuum. Optics Express **4**, 121-128 (1999).

Giguere, A., M. Foldeaki, W. Schnelle and E. Gmelin: Metamagnetic transition and magnetocaloric effect in ErCo₂. Journal of Physics **11**, 6969-6981 (1999).

Gladkov, P. and J. Weber: Low temperature photoluminescence properties of p- and n-type Al_xGa_{1-x}As with x > 0.42. Czechoslovak Journal of Physics **49**, 823-832 (1999).

Gmelin, E.: Recent progress in low temperature calorimetry. Journal of Thermal Analysis and Calorimetry **56**, 655-671 (1999). [98.270]

Gmelin, E., M. Asen-Palmer, M. Reuther and R. Villar: Thermal boundary resistance of mechanical contacts between solids at sub-ambient temperatures. Journal of Physics **D32**, R19-R43 (1999).

Gmelin, E. siehe Engelhardt, J.; Giguere, A.; Kasper, N.V.; Poddar, A.; Sarge, St.M.; Schnelle, W.

Gnatchenko, S.L., V.I. Gapon, A.G.M. Jansen and P. Wyder: Magneto-optical study of the magnetic H-T phase diagram of single crystal Ca₃Mn₂Ge₃O₁₂. Journal of Magnetism and Magnetic Materials **204**, 171-175 (1999).

Göbel, A., T. Ruf, A. Fischer, K. Eberl, M. Cardona, J.P. Silveira and F. Briones: Optical phonons in isotope superlattices of GaAs, GaP, and GaSb studied by Raman scattering. Physical Review **B59**, 12612-12621 (1999). [98.286]

Göbel, A., T. Ruf, J.M. Zhang, R. Lauck and M. Cardona: Phonons and fundamental gap in ZnSe: Effects of the isotopic composition. Physical Review **B59**, 2749-2759 (1999). [98.290]

Göbel, A., J.M. Zhang, T. Ruf, R. Lauck and M. Cardona: Isotope effects on phonons and band gap in ZnSe. In: Proceedings of the 24th International Conference on the Physics of Semiconductors, (Ed.) D. Gershoni. World Scientific, Singapore 1999, CD-ROM. [98.200]

Goedecker, S.: Linear scaling electronic structure methods. Reviews of Modern Physics **71**, 1085-1123 (1999).

Goedecker, S. and O.V. Ivanov: Frequency localization properties of the density matrix and its resulting hypersparsity in a wavelet representation. Physical Review **B59**, 7270-7273 (1999).

- Solution of multiscale partial differential equations using wavelets. Computers in Physics **12**, 548-555 (1998).

Golnik, A., C. Bernhard, J. Humlicek, M. Klaser and M. Cardona: The far-infrared in-plane conductivity of YBaCuO studied by ellipsometry. Physica Status Solidi **B215**, 553-556 (1999).

Góra, D., K. Rosciszewski and A.M. Oles: Electron correlations in stripe phases for doped antiferromagnets. Physical Review **B60**, 7429-7439 (1999).

Gordon, A., M.A. Itskovsky and P. Wyder: Quantizing field-induced magnetic phase in a three-dimensional electron gas. *Physical Review* **B59**, 10864-10868 (1999).

Gordon, A., B.E. Vugmeister, H. Rabitz, S. Dorfman, J. Felsteiner and P. Wyder: A ferroelectric model for the generation and propagation of an action potential and its magnetic field stimulation. *Ferroelectrics* **220**, 291-304 (1999).

Gordon, A. siehe Dorfman, S.

Greco, A. and R. Zeyher: Electronic correlations, electron-phonon interaction, and isotope effect in high- T_c cuprates. *Physical Review* **B60**, 1296-1302 (1999). [98.275]

Grenier, B., A.L. Barra and P. Monod: Electron spin resonance of CuGeO_3 : opposite effect of Ni- and Zn- or Si- doping. *Physica* **B261**, 961 (1999).

Griesbeck, A.G., A. Henz, W. Kramer, P. Wamser, K. Peters and E.-M. Peters: Stereo- and spinselectivity of primary (singlet) and secondary (triplet) Norrish type II reactions. *Tetrahedron Letters* **39**, 1549-1552 (1998). [98.05]

Grigor'ev, P.D. and A.M. Dyugaev: Negative Ca^- and Ba^- ions of large radius on the surface and in the volume of liquid helium. *JETP Letters* **88**, 325-331 (1999).

Grin, Yu., M. Baitinger, R. Kniep and H.G. von Schnering: Redetermination of the crystal structure of tetrasodium *tetrahedro*-tetrastannide, Na_4Sn_4 and tetrapotassium *tetrahedro*-tetrastannide, K_4Sn_4 . *Zeitschrift für Kristallographie – New Crystals Structures* **214**, 453-454 (1999).

Gross, G.M., R.B. Praus, B. Leibold and H.-U. Habermeier: Microstructure and X-ray analysis on LaCaMnO thin film. *Applied Surface Science* **138-139**, 117-122 (1999).

Grzechnik, A.: Stability and optical properties of $\gamma\text{-Gd}_2\text{S}_3$ at high pressures. *Journal of Solid State Chemistry* **148**, 370-375 (1999). [99.089]

Grzechnik, A. siehe Schwarz, U.

Gu, G.D. siehe Fong, H.F.; Keimer, B.

Guillot, M., H. Le Gall and J.M. Desvignes: Magneto-optical properties of rare earth iron garnets. *Advances in Science and Technology* **17**, 619-626 (1999).

Guillot, M., T. Schmiedel and Y. Xu: Faraday rotation and magnetic properties of neodymium trifluoride under high magnetic field. *Journal of Applied Physics* **85**, 5097-5099 (1999).

Gunnarsson, O. and J.E. Han: Raman line shapes in A_3C_{60} ($\text{A} = \text{K}, \text{Rb}$): effects of orientational disorder on phonon spectra. *Proceedings - Electrochemical Society* **99-12**, 588-596 (1999). [99.059]

Gunnarsson, O., E. Koch and R.M. Martin: Mott transition and superconductivity in alkali-doped fullerides. *AIP Conference Proceedings* **442**, 287-291 (1998). [98.078]

Gunnarsson, O. siehe Han, J.E.; Karlsson, K.; Koch, E.; Lee, J.D.

Gusev, G. M., U. Gennser, X. Kleber, D.K. Maude, J.C. Portal, D.I. Lubyshev, P. Basmaji, M. de P.A. Silva, J. C. Rossi and Y. V. Nastaushchev: Percolation network in a smooth artificial potential. *Physical Review* **B58**, 4636-4643 (1998).

Haas, H. and M. Jansen: Li_4SeO_5 , the first orthoselenate, crystallizes as an order variant of a theoretically predicted A[5]B[5] structure type. *Angewandte Chemie International Edition in English* **38**, 1910-1911 (1999). [99.042]

Habermeier, H.-U., T. Haage, J. Zegenhagen, V.G. Hadjev, R. Warthmann and C. Jooss: Anisotropic enhancement of flux pinning in Y-Ba-Cu-O thin films grown by the step-flow growth mode. *Proceedings of the Society of Photo-Optical Instrumentation Engineers* **3481**, 204-213 (1998).

Habermeier, H.-U., X.H. Li, P.X. Zhang and B. Leibold: Anisotropy of thermoelectric properties in $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ thin films studies by laser-induced transient voltages. *Solid State Communications* **110**, 473-478 (1999). [99.09]

Habermeier, H.-U., F. Razavi, O. Lebedev, G.M. Gross, R.B. Praus and P.X. Zhang: Correlation of microstructure and magnetotransport properties of epitaxially grown La-Ca-Mn-O₃ thin films. *Physica Status Solidi* **B215**, 679-683 (1999).

Habermeier, H.-U., F. Razavi, O. Lebedev, R. Praus, P.X. Zhang and B. Leibold: Correlation of microstructure and magnetotransport properties of epitaxially grown $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ thin films. *Journal of Superconductivity* **12**, 285-288 (1999).

Habermeier, H.-U. siehe Gross, G.M.; Jooss, Ch.; Lebedev, O.I.; Ludwig, Ch.; Praus, R.B.

Hadjiev, V.G., A. Fainstein, P. Etchegoin, H.J. Trodahl, C. Bernhard, M. Cardona and J.L. Tallon: Raman scattering from magnetic excitations in the ferromagnetic superconductor $\text{RuSr}_2\text{GdCu}_2\text{O}_{8.8}$. *Physica Status Solidi* **B211**, R5-R6 (1999). [99.04]

Hadjiev, V.G., A.A. Martin, T. Ruf and M. Cordona: Phonon self-energy effects in high-temperature superconductors. *Physica Status Solidi* **B215**, 483-488 (1999).

Hadjiev, V.G., T. Strohm, M. Cardona, Z.L. Du, Y.Y. Xue and C.W. Chu: Raman scattering from the superconducting phase: electronic excitations and phonon renormalization effects. *ACS Symposium Series* **730**, 180-195 (1999). [98.176]

Hadjiev, V.G. siehe Martin, A.A.

Hagenmayer, R.M., U. Müller, C.J. Benmore, J. Neufeind and M. Jansen: Structural studies on amorphous silicon boron nitride $\text{Si}_3\text{B}_3\text{N}_7$: neutron contrast technique on nitrogen and high energy X-ray diffraction. *Journal of Materials Chemistry* **9**, 2865-2869 (1999).

Hameauö, S., Y. Gildner, O. Verzelen, R. Ferreira, G. Bastard, J. Zeman, A. Lemaitre and J.M. Gerard: Strong electron-phonon coupling regime in quantum dots: evidence for everlasting resonant polarons. *Physical Review Letters* **83**, 4152-4155 (1999).

Hamilton, J.C., R. Stumpf, K. Bromann, M. Giovanni, K. Kern and H. Brune: Dislocation structures of submonolayer films near the commensurate-incommensurate phase transition: Ag on Pt(111). *Physical Review Letters* **82**, 4488-4491 (1999).

Han, J.E., O. Gunnarsson and V. Eyert: Phonon line shape in disordered A_3C_{60} (A=K, Rb). *Physical Review* **B60**, 6495-6501 (1999). [99.058]

Hanfland, M., Loa, I., K. Syassen, U. Schwarz and K. Takemura: Equation of state of lithium to 21 Gpa. *Solid State Communications* **112**, 123-127 (1999). [99.103]

Hanfland, M., U. Schwarz, K. Syassen and K. Takemura: Crystal structure of the high-pressure phase silicon VI. *Physical Review Letters* **82**, 1197-1200 (1999). [98.234]

Hannemann, A., R. Hundt, J.C. Schön and M. Jansen: A new algorithm for space-group determination. *Journal of Applied Crystallography* **31**, 922-928 (1998).

Hannemann, A. siehe Hundt, R.

Harff, N.E., A. Palevski, W. Dietsche, K. von Klitzing. and K. Eberl: Measurement of the magnetic breakdown field in coupled double quantum wells. In: *Proceedings of the 24th International Conference on the Physics of Semiconductors*, (Ed.) D. Gershoni. World Scientific, Singapore 1999, 1770-1773. [98.215]

Harris, M. and P. Ballone: Electron removal energies from density functional computations. *Chemical Physics Letters* **303**, 420-426 (1999).

Hedin, L.: On correlation effects in electron spectroscopies and the *GW* approximation. *Journal of Physics* **11**, R489-R528 (1999).

Hedin, L., J. Michiels and J. Inglesfield: Transition from the adiabatic to the sudden limit in core-electron photoemission. *Physical Review* **B58**, 15565-15582 (1998).

Hegman, N., G. Remenyi, J.C. Lasjaunias, S. Sahling, G. Dhalenne and A. Revcolevschi: Heat capacity of CuGeO_3 : anisotropic magnetic field dependence of the uniform phase. *Solid State Communications* **106**, 647-652 (1998).

Hegman, N., J.C. Lasjaunias, G. Remenyi, S. Sahling, D. Lissatchenko, G. Dhalenne and A. Revcolevschi: Specific heat fluctuations in the vicinity of the spin-Peierls transition of CuGeO_3 . *Journal of Physics: Condensed Matter* **11**, 4689-4696 (1999).

Heinebrodt, M., N. Malinowski, F. Tast, W. Branz, I.M.L. Billas and T.P. Martin: Bonding character of bimetallic clusters AunX_m ($X=\text{Al, In, Cs}$). *Journal of Chemical Physics* **110**, 9915-9921 (1999).

Heinemann, D., W. Assenmacher, W. Mader, M. Kroschel and M. Jansen: Structural characterization of amorphous ceramics in the system Si-B-N-(C) by means of transmission electron microscopy methods. *Journal of Materials Research* **14**, 3746-3753 (1999). [99.039]

Hemmerling, M., S. Hünig, M. Kemmer and K. Peters: An uncommon derivative of 4*H*-thiopyran-4-one: 4*H*,8*H*-thiopyranol[3,2-*b*]thiopyran-4,8-dione: synthesis, redox properties, and calculations. *European Journal of Organic Chemistry* **1998**, 1989-1996 (1998).

Henn, R.W., T. Strach, R.K. Kremer and A. Simon: Raman scattering studies of the carbon atom vibrations in superconducting rare-earth carbide halides $\text{RE}_2\text{C}_2(\text{X},\text{X}')_2$ ($\text{RE} = \text{Y, Gd}$; $\text{X},\text{X}' = \text{Br, I}$). *Physica Status Solidi* **B215**, 513-517 (1999). [99.025]

Henn, R.W. siehe Blasius, T.; Kremer, R.K.

Henrion, W., M. Rebien, V.N. Antonov and O. Jepsen: Optical characterization of Ru_2Si_3 and Ru_2Ge_3 by various spectroscopic methods and by band structure calculations. *Solid State Phenomena* **67-68**, 471-476 (1999).

Henseler, U. and M. Jansen: $\text{Li}_{10}\text{Zn}_4\text{O}_9$, a new defect type of the CaF_2 -type structure. Twinning and systematic intergrowth with Li_6ZnO_4 . *Zeitschrift für Kristallographie* **214**, 550-557 (1999). [99.036]

Hönle, W., G. Krogull, K. Peters and H.G. von Schnering: Crystal structure of tetra-rubidium cyclohexaarsenide(4-), Rb_4As_6 and of tetra-cesium cyclohexaarsenide(4-), Cs_4As_6 . Zeitschrift für Kristallographie - New Crystal Structures **214**, 17-18 (1999).

Hoffbauer, W., S. Wefing, G. Klästers, F. Frick and M. Jansen: Dynamic properties of $\text{P}_4\text{O}_6\text{S}$ and P_4O_7 : ^{31}P spin-echo and ^{31}P MAS-NMR investigations. Solid State Nuclear Magnetic Resonance **14**, 211-224 (1999).

Hoppe, R. und M. Jansen: 1949 bis 1999, ein halbes Jahrhundert Festkörperchemie. Nachrichten aus Chemie, Technik und Laboratorium **47**, 980-986 (1999).

Horsch, P., J. Jaklic and F. Mack: Double-exchange magnets: Spin dynamics in the paramagnetic phase. Physical Review **B59**, R14149-R14152 (1999).

- Optical conductivity of colossal-magnetoresistance compounds: Role of orbital degeneracy in the ferromagnetic phase. Physical Review **B59**, 6217-6228 (1999). [99.015]

Horsch, P. and F. Mack: A new view of the electronic structure of the spin-Peierls compound $\alpha\text{-NaV}_2\text{O}_5$. European Physical Journal **B5**, 367-370 (1998).

Horsch, P. siehe Cuoco, M.; Mack, F.; Prelovsek, P.; Van den Brink, J.

Horvatic, M. and C. Berthier: High magnetic field NMR studies of quantum spins chains and ladders. In: Proceedings of the 4th International Symposium on Advanced Physical Fields: Quantum Phenomena in Advanced Materials at High Magnetic Fields, (Ed.) G. Kido. Science and Technology Agency, Tsukuba 1999, 51-53.

Horvatic, M., Y. Fagot-Revurat, C. Berthier, G. Dhalenne and A. Revcolevschi: NMR imaging of the soliton lattice profile in the spin-Peierls compound CuCeO_3 . Physical Review Letters **83**, 420-423 (1999).

Howells, G.D., A. Oral, S.J. Bending, S.R. Andrews, P.T. Squire, P. Rice, A. de Lozanne, J.A.C. Bland, I. Kaya and M. Henini: Scanning Hall probe microscopy of ferromagnetic-structures. Journal of Magnetism and Magnetic Materials **204**, 917-919 (1999).

Hübner, M., J. Kuhl, B. Grote, T. Stroucken, S.W. Koch, R. Hey and K. Ploog: Transition from superradiant free-polarization decay to subradiant photon-echo. Solid State Communications **108**, 787-791 (1998). [98.041]

Hundt, R., J. Chr. Schön, A. Hannemann and M. Jansen: Determination of symmetries and idealized cell parameters for simulated structures. Journal of Applied Crystallography **32**, 413-416 (1999). [98.137]

Ikeda, T., M. Sprik, K. Terakura and M. Parrinello: Pressure-induced structural and chemical changes of solid HBr. Journal of Chemical Physics **111**, 15951607 (1999).

- Pressure effects on hydrogen bonding in the disordered phase of solid HBr. Physical Review Letters **81**, 4416-4419 (1998).

- Pressure-induced structural changes of HBr. Physica **B265**, 101-104 (1999).

Ise, M., K.D. Kreuer and J. Maier: Electroosmotic drag in polymer electrolyte membranes: an electrophoretic NMR study. Solid State Ionics **125**, 213-223 (1999). [98.222]

Ise, M. siehe Bozkurt, A.; Freger, V.

Istomin, S.Y., J. Köhler and A. Simon: Crystal structure of $\beta\text{-ZrNiCl}$ refined from X-ray powder diffraction data, electronic band structures of $\beta\text{-ZrNiCl}$ and superconducting Li_xZrNiCl . Physica **C319**, 219-228 (1999).

Jamnik, J.: Mass and charge transport through boundaries. In: Solid State Ionics: Science & Technology, (Eds.) B.V.R. Chowdari et al. World Scientific, Singapore 1998, 13-20. [98.312]

Jamnik, J. and J. Maier: Defect chemistry and chemical transport involving interfaces. *Solid State Ionics* **119**, 191-198 (1999). [98.081]

- Treatment of the impedance of mixed conductors. Equivalent circuit model and explicit approximate solutions. *Journal of the Electrochemical Society* **146**, 4183-4188 (1999). [98.098]

Jamnik, J., J. Maier and S. Pejovnik: A powerful electrical network model for the impedance of mixed conductors. *Electrochimica Acta* **44**, 4139-4145 (1999). [98.310]

Jamnik, J. siehe Leonhardt, M.

Jandl, S., T. Strach, T. Ruf, M. Cardona, V. Nekvasil, D.I. Zhigunov, S.N. Barilo and S.V. Shiryayev: Raman study of crystal-field excitations in $\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_4$. *Physica* **C322**, 87-92 (1999). [99.06]

Jansen, M.: Vom Molekül zum Hochleistungswerkstoff – neuartige keramische Verstärkungsfasern aus molekularen Vorläufern (Teil 1). Symposium, Fonds der chemischen Industrie, Köln 1998, 6-10.

- Bei Bruch nun ein Durchbruch? *Chemie heute* **99**, 97-99 (1998).

- Ein Ansatz zur rationalen Planung von Festkörperreaktionen. *Zeitschrift für Kristallographie* **16**, 22 (1999). [98.272]

Jansen, M. and A.V. Mudring: The chemistry of gold oxides. In: *Gold: Progress in Chemistry, Biochemistry and Technology*, (Ed.) H. Schmidbaur. Wiley, New York 1999, 747-793.

Jansen, M. and R. Müller: Synthesis and constitution of HfS_2O_8 . *Zeitschrift für Anorganische und Allgemeine Chemie* **625**, 1081-1085 (1999). [99.037]

Jansen, M. und J. Chr. Schön: Strukturkandidaten für Alkalimetallnitride. *Zeitschrift für Anorganische und Allgemeine Chemie* **624**, 533-540 (1998).

Jansen, M. siehe Adelsberger, Th.; Albert, B.; Baldus, P.; Becker, M.; Behrens, P.; Deibele, S.; Doering, U.; Franke, R.; Friede, B.; Funke, K.; Gastreich, M.; Haas, H.; Hagenmayer, R.M.; Hannemann, A.; Heinemann, D.; Henseler, U.; Hoffbauer, W.; Hoppe, R.; Hundt, R.; Jeschke, G.; Jüngermann, H.; Kazin, P.E.; Kessler, U.; Klösters, G.; Kohn, S.; Leben, C.; Malchus, M.; Möschel, C.; Putz, H.; Rings, S.; Schön, J. Chr.; Siener, T.; Trinschek, D.; Waidmann, G.; Wevers, M.A.C.; Wilmer, D.; Zoche, N.

Jaschinski, O. siehe Baughman, R.H.

Jeandupeux, O., L. Bürgi, A. Hirstein, H. Brune and K. Kern: Thermal damping of quantum interference patterns of surface-state electrons. *Physical Review* **B59**, 15926-15933 (1999).

Jepsen, O. siehe Henrion, W.; Karlsson, K.; Miglio, L.

Jeschke, G., W. Hoffbauer and M. Jansen: A comprehensive NMR study of cubic and hexagonal boron nitride. *Solid State Nuclear Magnetic Resonance* **12** (1-7 (1998).

Jiang, Q.D. and J. Zegenhagen: $c(6 \times 2)$ and $c(4 \times 2)$ reconstruction of $\text{SrTiO}_3(001)$. *Surface Science* **425**, 343-354 (1999). [98.314]

Jooss, Ch., R. Warthmann, H. Kronmüller, T. Haage, H.-U. Habermeier and J. Zegenhagen: Vortex pinning due to strong quasiparticle scattering at antiphase boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_{7.8}$. *Physical Review Letters* **82**, 632-635 (1999).

Jost, R., M. Joyeux, S. Skokov and J. Bowman: Vibrational analysis of HOCl up to 98% of the dissociation energy with a Fermi resonance Hamiltonian. *Journal of Chemical Physics* **111**, 6807-6820 (1999).

- Jüngergermann, H. and M. Jansen*: Quaternäre Keramiken im System Si/B/N/C aus polymeren Carbamidsäurederivaten. *Materialwissenschaft und Werkstofftechnik* **29**, 573-587 (1998).
- Synthesis of an extremely stable ceramic in the system Si/B/C/N using 1-(trichlorosilyl)-1-(dichloroboryl)ethane as a single-source precursor. *Materials Research Innovations* **2**, 200-206 (1999).
- Julien, M.H., F. Borsa, P. Carretta, M. Horvatic, C. Berthier and C.T. Lin*: Charge segregation, cluster spin glass, and superconductivity in $\text{La}_{1.94}\text{Sr}_{0.06}\text{CuO}_4$. *Physical Review Letters* **83**, 604-607 (1999).
- Julien, M.H., Z.H. Jang, A. Lascialfari, F. Borsa, M. Horvatic, A. Caneschi and D. Gatteschi*: Photon NMR for measuring quantum level crossing in the magnetic molecular ring Fe_{10} . *Physical Review Letters* **83**, 227-230 (1999).
- Kaiser, A.B., Y.W. Park, G.T. Kim, E.S. Choi, G. Duesberg and S. Roth*: Electronic transport in carbon-nanotube ropes and mats. *Synthetic Metals* **103**, 2547-2550 (1999).
- Kambe, S., A. Huxley, J. Flouquet, A.G.M. Jansen and P. Wyder*: Hall resistivity in the heavy fermion normal state of UPt_3 up to 26 T. *Journal of Physics: Condensed Matter* **11**, 221-227 (1999).
- Karimov, O.Z., D. Wolverson, J.J. Davies, T. Ruf and L.N. Tenishev*: Resonant spin-flip raman scattering studies of II-VI semiconductor heterostructures *Physica Status Solidi* **b215**, 373-376 (1999).
- Karlsson, K., O. Gunnarsson and O. Jepsen*: Cuprate core-level line shapes for different Cu-O networks. *Physical Review Letters*, 3528-3532 (1999). [98.295]
- Kasumov, A., R. Deblock, M. Kociak, B. Reulet, H. Bouchiat, I. Khodos, Y. Gorbatov, V. Volkov, C. Journet, O. Stephan and M. Burghard*: Proximity-induced superconductivity in carbon nanotubes. *Comptes Rendus de l'Académie des Sciences 2B* **327**, 933-943 (1999).
- Supercurrents through single-walled carbon nanotubes. *Science* **284**, 1508-1510 (1999).
- Kasper, N.V., I.O. Troyanchuk, D.D. Khalyavin, N. Hamad, L. Haupt, P. Fröbel, K. Bärner, E. Gmelin, Q. Huang and J.W. Lynn*: Effect of oxygen content and oxygen vacancy ordering on the properties of $\text{TbBaCo}_2\text{O}_{6.8}$ perovskites. *Physica Status Solidi* **B215**, 697-701 (1999).
- Kaupp, M.*: Charting no-man's land in d0 transition metal six-coordination: structure predictions for the complexes $[\text{WC}_{15}\text{CH}_3]$, $[\text{WCl}_4(\text{CH}_3)_2]$, and $[\text{WCl}_3(\text{CH}_3)_3]$. *Angewandte Chemie International Edition in English* **38**, 3034-3037 (1999).
- Kaupp, M., C. Aubauer, G. Engelhardt, T.M. Klapotke and O.L. Malkina*: The PI_4^+ cation has an extremely large negative ^{31}P nuclear magnetic resonance chemical shift, due to spin-orbit coupling: A quantum-chemical prediction and its confirmation by solid-state nuclear magnetic resonance spectroscopy. *Journal of Chemical Physics* **110**, 3897-3902 (1999).
- Kaupp, M., O.L. Malkina and V.G. Malkin*: The role of π -type nonbonding orbitals for spin-orbit induced NMR chemical shifts: DFT study of ^{13}C and ^{19}F shifts in the series CF_3IF_n ($n=0,2,4,6$). *Journal of Computational Chemistry* **20**, 1304-1313 (1999). [99.029]
- Kaya, I.I., G. Nachtwei, K. von Klitzing and K. Eberl*: Spatial evolution of hot-electron relaxation in quantum Hall conductors. *Physical Review* **B58**, R7536-R7539 (1998).
- Spatially resolved monitoring of the evolution of the breakdown of the quantum Hall effect: direct observation of inter-Landau-level tunneling. *Europhysics Letters* **46**, 62-67 (1999).
- Kazin, P.E., V.V. Poltavets, M.S. Kuznetsov, D.D. Zaytsev, Yu.D. Tretyakov, M. Jansen and M. Schreyer*: Phase compatibility and preparation of $\text{Bi-2212-Sr}_{1-x}\text{Ca}_x\text{In}_2\text{O}_4$ composite. *Superconductor Science and Technology* **11**, 880-886 (1999).

- Kazin, P.E., V.V. Poltavets, Yu.D. Tretyakov, M. Jansen, B. Freitag and W. Mader:* Phase and microstructure evolution in the process of the composite Bi-2212-(Sr,Ca)₃Al₂O₆ glass ceramics formation. *Superconductor Science and Technology* **12**, 475-480 (1999).
- Kazin, P.E., M.A. Uskova, Yu.D. Tretyakov, M. Jansen, S. Scheurell and E. Kemnitz:* Formation of Bi(Pb)-2223 with chemically compatible V-rich phase. *Physica* **C301**, 185-191 (1998).
- Kefuss, J., K. M'Diaye, M. Bounias, J. Vanpoucke and J. Ecochard:* Biochemical effects of high intensity constant magnetic fields on worker honey bees. *Bioelectromagnetics* **20**, 117-122 (1999).
- Keimer, B.:* Spin excitations in pure and Zn-substituted YBa₂Cu₃O_{6+x}. In: *Physics and Chemistry of Transition-Metal Oxides*, (Eds.) H. Fukuyama and N. Nagaosa. Springer Series in Solid-State Sciences **125**, 173-177.
- Keimer, B., P. Bourges, H.F. Fong, Y. Sidis, L.P. Regnault, A. Ivanov, D.L. Milius, I.A. Aksay, G.D. Gu, N. Koshizuka:* Resonant spin excitations in YBa₂Cu₃O_{6-x} and Bi₂Sr₂CaCu₂O_{8+δ}. *Journal of Physics and Chemistry of Solids* **60**, 1007-1011 (1999).
- Keimer, B., D. Casa, V. Kiryukin, A.O. Saleh, J.P. Hill, Y. Tomioka, Y. Tokura:* X-ray effects in charge-ordered manganites: a magnetic mechanism of persistent photoconductivity. *Materials Science and Engineering* **B63**, 30-35 (1999).
- Keimer, B. siehe Bourges, Ph.; Casa, D.; Fong, H.F.; Zimmermann, M. von
- Kern, K. siehe Brune, H.; Bürgi, L.; Fischer, B.; Hamilton, J.C.; Jeandupeux, O.; Kind, H.; Leifeld, O.; Müller, B.; Weckesser, J.; Wicki, A.
- Kessler, U. and M. Jansen:* Crystal structures of monofluorosulfites MSO₂F (M=K, Rb). *Zeitschrift für Anorganische und Allgemeine Chemie* **625**, 385-388 (1999).
- Khaliullin, G., R. Kilian, S. Krivenko and P. Fulde:* Local spin polarization in underdoped cuprates with impurities. *Physica* **C317-318**, 494-496 (1999).
- Khaliullin, G., S. Krivenko, R. Kilian and P. Fulde:* Theory of impurity-induced NMR line broadening in underdoped cuprates. *Physica* **B259-261**, 504-505 (1999).
- Khaliullin, G. siehe Kilian, R.; Van den Brink, J.
- Khanin, Yu.N., E.E. Vdovin, Yu.V. Dubrovskii, D.K. Maude, J.C. Portal and T.G. Andersson:* Resonant tunneling through single thin barrier heterostructure with spacer layers. In: *Proceedings of the 7th International Symposium on Nanostructures: Physics and Technology*, (Eds.) Z. Alferov and L. Esaki, Ioffe Institute, St. Petersburg 1999, 269.
- Kheifets, A.S., D.R. Lun and S.Yu. Savrasov:* Full-potential linear-muffin-tin-orbital calculation of electron momentum densities of solids. *Journal of Physics* **11**, 6779-6792 (1999).
- Kilian, R. and G. Kahlullin:* Orbital polarons in the metal-insulator transition of manganites. *Physical Review* **B60**, 13458-13469 (1999).
- Orbital liquid state in ferromagnetic manganites. *Physica* **B259-261**, 805-806 (1999).
- Kilian, R., S. Krivenko, G. Khaliullin and P. Fulde:* Impurity-induced spin polarization and NMR line broadening in underdoped cuprates. *Physical Review* **B59**, 14432-14439 (1999).
- Kim, G.T., M. Burghard, D.S. Suh, K. Liu, J.G. Park, S. Roth and Y.W. Park:* Conductivity and magnetoresistance of polyacetylene fiber network. *Synthetic Metals* **105**, 207-210 (1999).

Kim, G.T., J.G. Park, Y.W. Park, K. Liu, G. Duesberg and S. Roth: 2-D localization in single wall carbon-nanotube network synthesized by Arc-plasma method. *Synthetic Metals* **103**, 2551-2554 (1999).

Kind, H., J.-M. Bonard, Chr. Emmenegger, L.-O. Nilsson, K. Hernadi, E. Maillard-Schaller, Louis Schlapbach, L. Forró and K. Kern: Patterned films of nanotubes using microcontact printing of catalysts. *Advanced Materials* **11**, 1285-1289 (1999).

Kirpichev, V.E., L.V. Kulik, I.V. Kukushkin, K. von Klitzing, K. Eberl and W. Wegscheider: Direct observation of the intersubband Bernstein modes: Many-body coupling with spin- and charge-density excitations. *Physical Review* **B59**, R12751-R12754 (1999).

Kirsche, V., W. Tochtermann, E.-M. Peters, K. Peters and H.G. von Schnering: Synthesis of 2,5heptano-1,2-dihydropyridine derivatives. *Heterocycles* **51**, 961-964 (1999).

Klitzing, K. von siehe Albrecht, C.; Burghard, M.; Kaya, I.I.; Kirpichev, V.E.; Kronmüller, S.; Kukushkin, I.V.; Liu, Z.H.; Nachtwei, G.; Philipp, G.; Rubel, H.; Smet, J.H.; Vasilyev, Yu.; Vasilyev, Yu.B.; Wei, Y.Y.; Weis, J.

Klösters, G. and M. Jansen: Neutron diffraction study of the low-temperature phases of sodium oxide nitrite, Na₃ONO₂. *Journal of Solid State Chemistry* **145**, 267-275 (1999). [98.274]

Klose, M., K.P. Korona, J. Kuhl and M. Heuken: Photoluminescence dynamics on InGaN/GaN quantum wells with different In concentrations. *Physica Status Solidi* **B216**, 325-329 (1999). [99.122]

Knack, S., J. Weber and H. Lemke: Hydrogen-rhodium complexes in silicon. *Materials Science and Engineering* **B58**, 141-145 (1999). [98.153]

Kober, F., B. Koenigsberg, V. Belle, M. Viallon, J.L. Leviel, A. Delon, A. Ziegler and M. Decorps: NMR imaging of thermally polarized helium-3 gas. *Journal of Magnetic Resonance* **138**, 308-312 (1999).

Kober, K., E. Wolf, J.L. Leviel, G. Vermeulen, G. Duhamel, A. Delon, J. Dérouard, M. Décorps and A. Ziegler: Low temperature polarized helium-3 gas for MRI applications. *Magnetic Resonance in Medicine* **41**, 1084-1087 (1999).

Kocevar, P., M. Schullatz and J. Kuhl: A Monte-Carlo analysis of the picosecond Raman spectroscopy of germanium. *Physica* **B263-264**, 60-62 (1999).

Koch, E., O. Gunnarsson and R.M. Martin: Fixed-node DMC for fermions on a lattice: application to the doped fullerenes. *NATO Science Series* **C525**, 447-462 (1999). [98.170]

- Optimization of Gutzwiller wave functions in quantum Monte Carlo. *Physical Review* **B59**, 15632-15640 (1999). [98.260]

- Screening, Coulomb pseudopotential, and superconductivity in alkali-doped fullerenes. *Physical Review Letters* **83**, 620-623 (1999). [99.057]

- Filling dependence of the Mott transition in the degenerate Hubbard model. *Physical Review* **B60**, 15714-15716 (1999). [99.074]

- Screening of a point charge: a fixed-node diffusion Monte Carlo study. In: *Computer Simulation Studies in Condensed-Matter Physics XII*, (Eds.) D.P. Landau et al. Springer Proceedings in Physics **85**, Berlin 1999, 23-29. [99.056]

Koch, E. siehe Gunnarsson, O.

Köhler, J.: Synthesis and structures of novel complex Yb(II) fluorides: YbBeF₄, YbAlF₅ and LiYbAlF₆. *Solid State Sciences* **1**, 545-553 (1999).

Köhler, J. and A.K. Tyagi: Crystal structure of β -lithium hexafluorogallate, Li_3GaF_6 . *Zeitschrift für Kristallographie - New Crystal Structures* **214**, 25-26 (1999).
- Crystal structure of heptastrontium hexaerbium triacontafluoride oxide, $\text{Sr}_7\text{Er}_6\text{F}_{30}\text{O}$. *Zeitschrift für Kristallographie - New Crystal Structures* **214**, 27-28 (1999).

Köhler, J. siehe Chang, J.-H.; Istomin, S.Y.; Svensson, G.

Kohn, S., W. Hoffbauer, M. Jansen, R. Franke, S. Bender: Evidence for the formation of SiON glasses. *Journal of Non-Crystalline Solids* **224**, 232-243 (1998).

Kollenz, G., E. Terpetschnig, H. Sterk, K. Peters and E.-M. Peters: Regio – stereoselective photocycloadditions of heterocyclic 2,3-diones – evidence for an unexpected 1,2 – aroyl migration. *Tetrahedron* **55**, 2973-2984 (1999).

Konstantinovic, M.J., L.F. Lastras-Martinez, M. Cardona, Z.V. Popovic, A.N. Vasilev, M. Isobe and Y. Ueda: Dielectric function of NaV_2O_5 and its temperature dependence. *Physica Status Solidi* **B211**, R3-R4 (1999).

Konstantinovic, M.J., Z.V. Popovic, T. Ruf, M. Cardona, A.N. Vasilev, M. Isobe and Y. Ueda: Resonant Raman scattering in NaV_2O_5 as a probe of its electronic structure. *Physica Status Solidi* **B215**, 661-666 (1999).

Konstantinovic, M.J., Z.V. Popovic, A.N. Vasil'ev, M. Isobe and Y. Ueda: First evidence for charge ordering in NaV_2O_5 from Raman spectroscopy. *Solid State Communications* **112**, 397-402 (1999).

Konuma, M., G. Cristiani, E. Czech and I. Silier: Liquid phase epitaxy of Si from Pb solutions. *Journal of Crystal Growth* **198-199**, 1045-1048 (1999).

Koopmans, B., P.V. Santos and M. Cardona: Microscopic reflection difference spectroscopy on semiconductor nanostructures. *Physica Status Solidi* **A170**, 307-315 (1998). [98.198]

Kornev, I., J.-P. Rivera, S. Gentil, A.G.M. Jansen, M. Bichurin, H. Schmid and P. Wyder: Optical absorption of Co^{2+} in LiCoPO_4 . *Physica* **B270**, 82-87 (1999).

Korona, K. P., J. Kuhl and J.M. Baranowski: Temporally and spatially resolved spectroscopy of GaN. *Physica Status Solidi* **B215**, 53-58 (1999).

Korona, K. P., J. Kuhl, J. M. Baranowski and S. Porowski: Excitonic thermalization and recombination in homoepitaxial gallium nitride. *Physica Status Solidi* **B216**, 85-89 (1999). [99.078]

Kotomin, E.A. siehe Dorfman, S.; Zhukovskii, Yu.F.

Krämer, S., K.H. Györfi, A. Bussmann-Holder, K. Conder and M. Mehring: ^{89}Y -NMR experiments on the phase diagram and isotope effect of the Néel temperature in $\text{YBa}_2\text{Cu}_3^{16,18}\text{O}_{6+x}$. *Physica Status Solidi* **215**, 601-606 (1999).

Kremer, R.K., K. Ahn, R.W. Henn, H. Mattausch, W. Schnelle, A. Stolovits and A. Simon: The rare-earth metal carbide halide superconductors $\text{RE}_2\text{C}_2\text{X}_2$ (RE=Y,La; X=Cl,Br,I). *Physica* **C317-318**, 456-459 (1999).

Kremer, R.K., I. Loa, F.S. Razavi and K. Syassen: Effect of pressure on the magnetic phase transition in α' - NaV_2O_5 . *Solid State Communication* **113**, 217-220 (1999). [99.165]

Kremer, R.K. siehe Ahn, K.; Bernhard, C.; Binder, H.; Felser, C.; Henn, R.W.; Li, R.K.; Loa, I.; Mattausch, H.; Schnelle, W.; Smith, T.J.; Stolovits, A.; Taylor, J.W.

Kreuer, K.D.: New proton conducting polymers for fuel cell applications. In: Solid State Ionics: Science & Technology, (Eds.) B.V.R. Chowdari et al. World Scientific, Singapore 1998, 263-274. [98.174]
- Aspects of the formation and mobility of protonic charge carriers and the stability of perovskite-type oxides. Solid State Ionics **125**, 285-302 (1999). [98.240]
- Handbook of Battery Materials. (Ed.) J.O. Besenhard. Angewandte Chemie International Edition in English **38**, 3397 (1999).

Kreuer, K.D. siehe Bozkurt, A.; Freger, V.; Ise, M.; Münch, W.; Spaeth, M.

Kröner, R., K. Peters and H.G. von Schnering: Crystal structure of barium tristannide, BaSn₃. Zeitschrift für Kristallographie - New Crystal Structures **213**, 663 (1998). [98.186]

Kröner, R., K. Peters, H.G. von Schnering and R. Nesper: Crystal structure of dibarium tetragermanide(4-), Ba₂Ge₄. Zeitschrift für Kristallographie - New Crystal Structures **213**, 662 (1998). [98.187]
- Crystal structure of the clathrate-II, Ba₁₆Ga₃₂Sn₁₀₄. Zeitschrift für Kristallographie - New Crystal Structures **213**, 664 (1998). [98.185]
- Crystal structure of the clathrates Rb₈Al₈Ge₃₈ and Rb₈Al₈Sn₃₈. Zeitschrift für Kristallographie - New Crystal Structures **213**, 669-670 (1998). [98.182]
- Crystal structure of the clathrates Cs₈Ga₈Ge₃₈ and Cs₈Ga₈Sn₃₈. Zeitschrift für Kristallographie - New Crystal Structures **213**, 671-672 (1998). [98.181]
- Crystal structure of the clathrates K₈Al₈Ge₃₈ and K₈Al₈Sn₃₈. Zeitschrift für Kristallographie - New Crystal Structures **213**, 675-676 (1998). [98.179]
- Crystal structure of the clathrates K₈Ga₈Si₃₈ and K₈Ga₈Sn₃₈. Zeitschrift für Kristallographie - New Crystal Structures **213**, 667-668 (1998). [98.183]

Kronmüller, S. and W. Dietsche: A new resistance maximum from electron-nuclear-spin interaction in the fractional quantum-Hall-effect state. Advances in Solid State Physics **39**, 213-220 (1999).

Kronmüller, S., W. Dietsche, K. von Klitzing, G. Denninger, W. Wegscheider and M. Bichler: New type of electron nuclear-spin interaction from resistively detected NMR in the fractional quantum Hall effect regime. Physical Review Letters **82**, 4070-4073 (1999). [98.313]

Kronmüller, S., W. Dietsche, J. Weis, K. von Klitzing, W. Wegscheider and M. Bichler: New resistance maxima in the fractional quantum Hall effect regime. Physical Review Letters **81**, 2526-2529 (1998).

Krstic, V. siehe Burghard, M.; Muster, J.

Kuhl, J., M. Hübner, D. Ammerlahn, B. Grote, T. Stroucken, St. Haas, A. Knoww, St. Koch, G. Khitrova, H. Gibbs, R. Hey and K. Ploog: IV-2 ultrafast coherent dynamics of radiatively coupled excitons in multiple quantum wells. Springer Series in Photonics **2**, 184-197 (1999).

Kuhl, J., M. Hübner, D. Ammerlahn, T. Stroucken, B. Grote, S. Haas, S.W. Koch, G. Khitrova, H.M. Gibbs, R. Hey and K. Ploog: Superradiant exciton/light coupling in semiconductor heterostructures. Part 2. Experiments. Festkörperprobleme **38**, 281-295 (1999).

Kuhl, J. siehe Ammerlahn, D.; Giessen, H.; Hübner, M.; Klose, M.; Kocevar, P.; Korona, K. P.; Linden, S.; Linden, St.; Ludwig, Ch.; Pau, S.; Stevens, T.E.

Kuhn, O., J. Genoe, D.K. Maude, J.-C. Portal, L. Eaves, M. Henini, G. Hill and M. Pate: S-shaped current bistability in a bipolar resonant tunneling diode. Physica **E2**, 483-488 (1998).

Kuhnke, K. siehe Wicki, A.

Kukushkin, I.V., K. von Klitzing and K. Eberl: Enhancement of the skyrmionic excitations due to the suppression of Zeeman energy by optical orientation of nuclear spins. *Physical Review* **B60**, 2554-2560 (1999). [98.261]

- Spin polarization of composite fermions: measurements of the Fermi energy. *Physical Review Letters* **82**, 3665-3668 (1999). [98.307]

Kukushkin, I.V. siehe Kirpichev, V.E.

Kurmaev, E.Z., S.N. Shamin, D.L. Ederer, U. Dettlaff-Weglikowska and J. Weber: Local and electronic structure of siloxene. *Journal of Materials Research*, **14**, 1235-1237 (1999).

Kvitnitskaya, O.E., Yu.G. Naidyuk, A. Nowack, K. Gloos, C. Geibel, A.G.M. Jansen and P. Wyder: Point-contact study of the heavy-fermion systems UPd_2Al_3 and UNi_2Al_3 . *Physica* **B259-261**, 638-639 (1999).

Kvitnitskaya, O.E. siehe Naidyuk, Yu.G.

Kvon, Z.D., E.B. Olshanetsky and M.I. Katkov: Quantum Hall effect in a single mode wire. *Fizika i Tekhnika Poluprovodnikov* **34**, 5 (1999).

Langan, R.M., S.N. Gordeev, M. Oussena, P.A.J. de Groot, A.G.M. Jansen, R. Gagnon und L. Taillefer: Scaling behaviour of magneto-resistance in clean $YBa_2Cu_3O_{7-\delta}$ single crystals in the vortex liquid state. *Physica* **C313**, 294-204 (1999).

Lastras-Martinez, L.F., P.V. Santos, D. Ronnow, M. Cardona, P. Specht and K. Eberl: Reflectance difference spectroscopy of GaAs asymmetric surface quantum wells above the fundamental gap. *Physica Status Solidi* **A170**, 317-321 (1998).

Lauck, R. and E. Schönherr: Isotopically pure ZnSe crystals grown from the vapor. *Journal of Crystal Growth* **197**, 513-516 (1999). [98.122]

Lauck, R. siehe Göbel, A.; Widulle, F.

Lebedev, O.I., G. van Tendeloo, A.M. Abakumov, S. Amelinckx, B. Leibold and H.-U. Habermeier: A study of the domain structure of epitaxial $La_{1-x}Ca_xMnO_3$ films by high-resolution transmission electron microscopy. *Philosophical Magazine* **A79**, 1461-1478 (1999).

Leben, C. and M. Jansen: Preparation and crystal structure of triammoniumtrisulfimide $(NH_4)_3(NSO_2)_3$. *Zeitschrift für Naturforschung*, **B54**, 757-760 (1999). [99.038]

Lee, J.D., O. Gunnarsson and L. Hedin: Transition from the adiabatic to the sudden limit in core-level photoemission: A model study of a localized system. *Physical Review* **B60**, 8034-8049 (1999). [99.035]

Leifeld, O., D. Grützmacher, B. Müller, K. Kern, E. Kaxiras and P.C. Kelires: Dimer pairing on the C-alloyed Si(001) surface. *Physical Review Letters* **82**, 972-975 (1999).

Leifeld, O., R. Hartmann, E. Müller, E. Kaxiras, K. Kern and D. Grützmacher: Self-organized growth of Ge quantum dots on Si(001) substrates induced by sub-monolayer C coverages. *Nanotechnology* **10**, 122-126 (1999).

Leifeld, O., E. Müller, D. Grützmacher, B. Müller and K. Kern: *In situ* scanning tunneling microscopy study of C-induced Ge quantum dot formation on Si(100). *Applied Physics Letters* **74**, 994-996 (1999).

Leitch, A.W.R., J. Weber and V. Alex: Formation of hydrogen molecules in crystalline silicon. *Materials Science and Engineering* **B58** 6-12 (1999).

Leitch, A.W.R. and J. Weber: Raman spectroscopy of hydrogen molecules in GaAs. *Physical Review* **B60**, 13265-13268 (1999).

Leonhardt, M., J. Jamnik and J. Maier: In situ monitoring and quantitative analysis of oxygen diffusion through Schottky-barriers in SrTiO₃ bicrystals. *Electrochemical and Solid-State Letters* **2**, 333-335 (1999). [98.311]

Li, R.K., R.K. Kremer and J. Maier: The structure and weak ferromagnetism of the double layered cuprocobaltate: Y₂SrCu_{0.6}Co_{1.4}O_{6.5}. *Journal of Solid State Chemistry* **146**, 488-493 (1999). [99.020]

Lin, C.T. and C. Bernhard: Electrical transport and magnetic properties of single crystals of the colossal magnetoresistance (CMR) manganite system RE_{0.67}Sr_{0.01}Pb_{0.32}MnO₃, RE = (Nd, Pr, La). *Physica Status Solidi* **B215**, 685-689 (1999).

Lin, C.T., Y. Yan, E. Bischoff, K. Peters and E. Schönherr: Lead-doped single crystals of Ln_{1-x-y}Sr_xPb_yMnO₃. *Journal of Applied Physics* **85**, 5393-5395 (1999). [98.219]

Lin, C.T. siehe Bernhard, C.; Blasius, T.; Julien, M.H.

Linden, St., H. Giessen and J. Kuhl: DFG- XFROG.- a new method for characterizing weak blue ultrashort pulses. In: *Summaries of Papers Presented at the Conference on Lasers and Electro-Optics*. OSA, Washington 1999, 505.

Linden, S., J. Kuhl and H. Giessen: Amplitude and phase characterization of weak blue ultrashort pulses by downconversion. *Optics Letters* **24**, 569-571 (1999).

Linden, St. siehe Giessen, H.

Lipinski, M. siehe Eberl, K.

Liu, K., M. Burghard, S. Roth and P. Bernier: Conductance spikes in single-walled carbon nanotube field-effect transistor. *Applied Physics Letters* **75**, 2494-2496 (1999).
- Charge transport in carbon nanotube transistors. *AIP Conference Proceedings* **486**, 407-410 (1999).

Liu, K., S. Roth, G. Duesberg, M. Wagenhals, C. Journet and P. Bernier: Transport properties of single-walled carbon nanotubes. *Synthetic Metals* **103**, 2513-2514 (1999).

Liu, Z.H., G. Nachtwei, J. Gross, R.R. Gerhardt, J. Weis, K. von Klitzing and K. Eberl: Tunneling between edge states in the quantum Hall regime limited by a mesoscopic island: A current-plateau phenomenon. *Physical Review* **B58**, 4028-4034 (1998). [98.099]

Liu, Z.H., G. Nachtwei, K. von Klitzing and K. Eberl: Tunnelling via an artificial impurity in a narrow quantum Hall conductor controlled by mesoscopic gates. *Semiconductor Science and Technology* **14**, 357-361 (1999).

Liu, Z.X., A.F. Goñi, K. Syassen, H. Siegle, C. Thomsen, B. Schottker, D.J. As and D. Schikora: Pressure and temperature effects on optical transitions in cubic GaN. *Journal of Applied Physics* **86**, 929-934 (1999). [98.204]

Loa, I., S. Gronemeyer, C. Thomsen and R.K. Kremer: Low-energy magnetic excitations in the dimerized and incommensurate phase of CuGeO₃. *Solid State Communications* **111**, 181-186 (1999).

Loa, I., U. Schwarz, M. Hanfland, R.K. Kremer and K. Syassen: Crystal structure and optical spectroscopy of NaV₂O₅ under pressure. *Physica Status Solidi* **B215**, 709-714 (1999).

Loa, I., K. Syassen and R.K. Kremer: Vibrational properties of NaV_2O_5 under high pressure studied by Raman spectroscopy. *Solid State Communications* **112**, 681-685 (1999).

Loa, I., K. Syassen, R.K. Kremer, U. Schwarz and M. Hanfland: Structural properties of NaV_2O_5 under high pressure. *Physical Review* **B60**, R6945-R6948 (1999). [99.011]

Loa, I. siehe Kremer, R.K.; Schwarz, U.; Thomsen, C.

Lok, J.G.S., A.K. Geim, U. Wyder, J.C. Maan and S.V. Dubonos: Thermally activated annihilation of an individual domain in submicrometer nickel particles. *Journal of Magnetism and Magnetic Materials* **204**, 159-164 (1999).

Ludwig, Ch., T. Sekinger, J. Kuhl, H.-U. Habermeier, M. Tani, K. Sakai, M. Hangyo, S. Miyazawa and M. Mukaida: Electrodynamical *c*-axis properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7.8}$ thin films in the THz frequency regime. *Physica Status Solidi* **B213**, 405-413 (1999).

Mack, F. and P. Horsch: Optical conductivity in doped manganites with planar x_2-y_2 orbital order. *Physical Review Letters* **82**, 3160-3163 (1999).

Maier, J.: Grain boundary effects in ionic and mixed conductors. *Diffusion and Defect Data* **B67-68**, 45-54 (1999). [98.280]

- Mass and charge transport involving interfaces. *Journal of the European Ceramic Society* **19**, 675-681 (1999). [98.212]

- The role of effective rate constants in interfacial kinetics. *Materials Research Society Symposium Proceedings* **548**, 415-428 (1999). [98.300]

Maier, J. siehe Bill, J.; Chandra, A.; Fleig, J.; Ise, M.; Jamnik, J.; Leonhardt, M.; Li, R.K.; Münch, W.; Rodewald, S.; Sasaki, K.; Spaeth, M.; Yun, S.K.

Mair, G. and H.G. von Schnering: Dilithium hexaboride, Li_2B_6 . *Zeitschrift für Anorganische und Allgemeine Chemie* **625**, 1207-1211 (1999).

Malchus, M. and M. Jansen: Combination of ion exchange and freeze drying as a synthetic route to new oxoferrates(VI) M_2FeO_4 with $\text{M} = \text{Li}, \text{Na}, \text{N}(\text{CH}_3)_4, \text{N}(\text{CH}_3)_3\text{BzI}, \text{N}(\text{CH}_3)_3\text{Ph}$. *Zeitschrift für Anorganische und Allgemeine Chemie* **624**, 1846-1854 (1998). [98.106]

Malits, P. and I.D. Vagner: Electron on an arbitrary surface of revolution in a magnetic field. *Journal of Physics* **A32**, 1507-1514 (1999).

Malinowski, N. siehe Billas, I.M.L.; Heinebrodt, M.; Martin, T.P.

Manghi, F., V. Bellini, J. Osterwalder, T.J. Kreutz, P. Aebi, C. Arcangeli: Correlation effects in the low-energy region of nickel photoemission spectra. *Physical Review* **B59**, R10409-R10513 (1999). [98.276]

Maniv, T. siehe Zhuravlev, V.; Zhuravlev, V.

Martin, A.A., V.G. Hadjiev, C. Bernhard, T. Ruf, M. Cardona and T. Wolf: Electronic Raman scattering in $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_{7.8}$ single crystals. *Physica Status Solidi* **B215**, 477-482 (1999).

- Electronic Raman response of optimal and overdoped $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_{7.8}$ single crystals. *Physica Status Solidi* **B214**, R21-R22 (1999). [99.062]

Martin, A.A., V.G. Hadjiev, T. Ruf, M. Cardona and T. Wolf: Anomalous phonon self-energy effects in $\text{SmBa}_2\text{Cu}_3\text{O}_y$: A Raman study. *Physical Review* **B58**, 14211-14214 (1998). [98.199]

Martin, A.A., T. Ruf, M. Cardona, S. Jandl, D. Barba, V. Nekvasil, M. Divis and T. Wolf: Infrared study of crystal-field excitations in NdBa₂Cu₃O₆. *Physical Review* **B59**, 6528-6533 (1999). [98.132]

Martin, A.A., T. Ruf, T. Strach, M. Cardona and T. Wolf: Raman study of coupled-phonon-crystal-field excitations in Nd_{1+x}Ba_{2-x}Cu₃O_y single crystals. *Physical Review* **B58**, 14349-14355 (1998). [98.119]

Martin, T.P., I.M.L. Billas, W. Branz, M. Heinebrodt, F. Tast and N. Malinowski: Metal clusters and atomic nuclei. *NATO ASI Series* **E348**, 271-295 (1998).

Martin, T.P. siehe Billas, I.M.L.; Heinebrodt, M.

Marx, D.: Ab initio liquids: Simulating liquids based on first principles. *NATO Science Series* **C529**, 439-457 (1999).

- Protonenwanderung im virtuellen Labor. *Spektrum der Wissenschaft* 7, 21-24 (1999). [99.045]

Marx, D. and M.H. Muser: Path integral simulations of rotors: theory and applications. *Journal of Physics: Condensed Matter* **11**, R117-R155 (1999). [98.285]

Marx, D. and M. Parrinello: Molecular spectroscopy: CH⁵⁺: the ceshire cat smiles. *Science* **284**, 59-61 (1999).
- CH₅⁺ stability and mass spectrometry. *Science* **286**, 1051a-1052a (1999).

Marx, D., M.E. Tuckerman, J. Hutter and M. Parrinello: The nature of the hydrated excess proton in water. *Nature* **397**, 601-604 (1999).

Marx, D., M.E. Tuckerman and G.J. Martyna: Quantum dynamics via adiabatic ab initio centroid molecular dynamics. *Computer Physics Communications* **118**, 166-184 (1999). [99.02]

Marx, W., M. Wanitschek and H. Schier: Scientometrics on fullerenes and nanotubes. *AIP Conference Proceedings* **442**, 533-543 (1998).

Matsumoto, K. siehe Schönherr, E.; Uchida, K.

Mattausch, H., O. Oeckler and A. Simon: A new modification of lanthanum monosilicide - IT-LaSi. *Zeitschrift für Anorganische und Allgemeine Chemie* **625**, 1151-1154 (1999).

- B and B-C as interstitials in reduced rare earth halides. *Inorganica Chimica Acta* **289**, 174-190 (1999).

- Zintl anions of silicon in the halides La₃Cl₂Si₃ and La₆Br₃Si₇. *Zeitschrift für Anorganische und Allgemeine Chemie* **625**, 297-301 (1999).

Mattausch, H., O. Oeckler, G.V. Vajenine, R.K. Kremer and A. Simon: Pr₈Cl₇B₇: preparation, structure, bonding, properties. *Solid State Sciences* **1**, 509-521 (1999). [99.073]

Mattausch, H. siehe Ahn, K.; Kremer, R.K.; Oeckler, O.

Maude, D.K., L.B. Rigal, L. Eaves, M. Potemski, Z.R. Wasilewski, G. Hill, M.A. Pate and J.C. Portal: Breakdown of the quantum Hall effect: a phase diagram? In: *Proceedings of the 4th International Symposium on Advanced Physical Fields: Quantum Phenomena in Advanced Materials at High Magnetic Fields*, (Ed.) G. Kido. Science and Technology Agency, Tsukuba 1999, 5-8.

Meister, M., J. Weber, M. Furtisch and H. Muenzel: Photoluminescence measurements of microcrystalline silicon. *Diffusion and Defect Data* **B67-68**, 155-160 (1999).

Menke, H., W. Carrillo-Cabrera, K. Peters, E.-M. Peters and H.G. von Schnering: Crystal structure of the clathrate Cs₈In₈Ge₃₈. *Zeitschrift für Kristallographie - New Crystal Structures* **214**, 14 (1999).

Meregalli, V. and S.Y. Savrasov: Electron-phonon coupling and properties of doped BaBiO₃. Journal of Superconductivity **12**, 185-187 (1999).

Meregalli, V. siehe Miglio, L.

Miglio, L., V. Meregalli and O. Jepsen: Strain dependent gap nature of epitaxial β -FeSi₂ in silicon by first principles calculations. Applied Physics Letters **75**, 385-388 (1999).

Millet, P., F. Mila, F.C. Zhang, M. Manbrini, A.B. van Oosten, V.A. Pashenko, A. Sulpice and A. Stepanov: Biquadratic interactions and spin-Peierls transition in the spin-1 chain LiVGe₂O₆. Physical Review Letters **83**, 4176-4179 (1999).

Möschel, C. and M. Jansen: Generation of stable phosphorus heterofullerenes in a radiofrequency furnace. Zeitschrift für Anorganische und Allgemeine Chemie **625**, 175-177 (1999).

Moll, H.P., C. Kutter, J. van Tol, H. Zuckerman and P. Wyder: Principles and Performance of an Electron Spin Echo Spectrometer Using Far Infrared Lasers as Excitation Sources. Journal of Magnetic Resonance **137**, 46-58 (1999).

Molteni, C. and M. Parrinello: First principles simulations of glucose in aqueous solution. Materials Research Society Symposium Proceedings **489**, 67-72 (1998).

Monarkha, Y.P., E. Teske and P. Wyder: Self-consistent approach to Coulombic effects on the quantum magnetotransport in a nondegenerate two-dimensional electron liquid. Physical Review **B59**, 14884-14887 (1999).

Monarkha, Y.P. siehe Teske, E.; Tress, O.

Msall, M.E., A. Klimashov, W. Dietsche and K. Friedland: Direct phonon transmission across wafer-bonded crystals. Physica **B263-264**, 361-363 (1999).

Msall, M.E., A. Klimashov, S. Kronmüller, H. Kostial, W. Dietsche and K. Friedland: Ballistic phonon transmission across wafer-bonded crystals. Applied Physics Letters **74**, 821-823 (1999).

Müller, B., C. Cai, M. Bösch, M. Jäger, C. Bosshard, P. Günter, J.V. Barth, J. Weckesser and K. Kern: Ordering of PVBA on amorphous SiO₂ and Pd(110). Thin Solid Films **343-344**, 171-174 (1999).

Münch, W., K.D. Kreuer, S. Adams, G. Seifert and J. Maier: The relation between crystal structure and the formation and mobility of protonic charge carriers in perovskite-type oxides. A case study of Y-doped BaCeO₃ and SrCeO₃. Phase Transitions **68**, 567-586 (1999).

Münch, W., K.D. Kreuer, G. Seifertli and J. Majer: A quantum molecular dynamics study of proton diffusion in SrTiO₃ and CaTiO₃. Solid State Ionics **125**, 39-45 (1999).

Mujica, C., J. Llanos, K. Peters, E.-M. Peters and H.G. von Schnering: Synthesis and crystal structure of Eu(ReO₄)₃(H₂O)₃ and Eu₃ReO₈. Journal of Alloys and Compounds **288**, 120-123 (1999).

Mujica, C., K. Peters, E.-M. Peters, W. Carrillo Cabrera and H.G. von Schnering: Synthesis and crystal structure of the *mer*-Fe(ReO₄)₃(H₂O)₃ complex. Boletín de la Sociedad Chilena de Química **44**, 161-166 (1999).

Munzar, D., C. Bernhard and M. Cardona: Does the peak in the magnetic susceptibility determine the in-plane infrared conductivity of YBCO? A theoretical study. Physica **C312**, 121-135 (1999).
- Possible relationship between the peak in the magnetic susceptibility and the in-plane far-infrared conductivity of YBCO. Physica **C317-318**, 547-549 (1999).

Munzar, D., C. Bernhard, A. Golnik, J. Humlicek and C. Cardona: A new interpretation of the phonon anomalies in the far-infrared *c*-axis conductivity of underdoped $\text{YBa}_2\text{Cu}_3\text{O}_y$. *Physica Status Solidi* **B215**, 557-561 (1999).

- Anomalies of the infrared-active phonons in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_y$ as evidence for the intra-bilayer Josephson effect. *Solid State Communications* **112**, 365-369 (1999).

Munzarova, M. and M. Kaupp: A critical validation of density functional and coupled-cluster approaches for the calculation of EPR hyperfine coupling constants in transition metal complexes. *Journal of Physical Chemistry* **A103**, 9966-9983 (1999).

Murphy, H.M., L. Eaves, A. Nnogat, S.T. Stoddart, P.C. Main, M. Henini, N. Mori, C. Hamaguchi, D.K. Mause and J.C. Portal: New developments in superlattice transport: quenching on miniband conduction in high magnetic fields. *Microelectronic Engineering* **47**, 65-68 (1999).

Murzin, S.S., I. Claus and A.G.M. Jansen: Quantum Hall effect in disordered GaAs layers with 3D spectrum in tilted magnetic fields. *Pis'ma v Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki* **68**, 305-308 (1998).

Murzin, S.S., I. Claus, A.G.M. Jansen, N.T. Moshegov, A.L. Toropov and K. Eberl: Quantum Hall effect induced by electron-electron interaction in disordered GaAs layers with a three-dimensional spectrum. *Physical Review* **B59**, 7330-7333 (1999).

Muster, J., M. Burghard, S. Roth, G.S. Duesberg, E. Hernandez and A. Rubio: Scanning force microscopy characterization of individual carbon nanotubes on electrode arrays. *Journal of Vacuum Science and Technology* **B16**, 2796-2801 (1998).

Muster, J., G.S. Duesberg, S. Roth and M. Burghard: Application of scanning force microscopy in nanotube science. *Applied Physics* **A261-267** (1999).

Muster, J., V. Krstic, M. Burghard and S. Roth: Vanadium pentoxide nanowires. *AIP Conference Proceedings* **486**, 221-225 (1999).

Muster, J. siehe Burghard, M.; Duesberg, G.S.

Nachtwei, G.: Breakdown of the quantum Hall effect. *Physica* **E4**, 79-101 (1999).

Nachtwei, G., I.I. Kaya, K. von Klitzing and K. Eberl: Spatially resolved measurements near the breakdown of the quantum Hall effect. *Advances in Solid State Physics* **39**, 193-202 (1999).

Nachtwei, G. siehe Kaya, I.I.; Liu, Z.H.

Naidyuk, Yu.G., O.E. Kvitnitskaya, K. Gloos, A.G.M. Jansen, P. Wyder and Z. Fisk: Low-temperature magnetoresistance measurements of YbBe_{13} . *Physica* **B259-261**, 152-153 (1999).

Naidyuk, Yu.G. siehe Kvitnitskaya, O.E.

Nekvasil, V., S. Jandl, T. Strach, T. Ruf and M. Cardona: On the multiple peak structure of electronic Raman scattering spectra in Ce-doped Nd_2CuO_4 . *Journal of Magnetism and Magnetic Materials* **177-181**, 535-536 (1998).

Niedermayer, Ch. T. Blasius, C. Bernhard, A. Golnik, A. Moodenbaugh and J.I. Budnick: Hole doping dependence of the antiferromagnetic correlations in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ and $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_6$. In: *High Temperature Superconductivity*, (Eds.) S.E. Barnes et al. AIP, New York 1999, 292-303.

- Doping dependence of dependence of the antiferromagnetic correlations in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ and $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_6$. *Advances in Solid State Physics* **39**, 413-422 (1999).

Nuñez-Regueiro, M. D.: Origin and doping dependence of the photoemission pseudogap in Cu oxides. *European Physical Journal* **B10**, 197-200 (1999).

Nuñez-Regueiro, M.D., E. Chappel, G. Chouteau and C. Delmas: Magnetic structure of $S=1/2$ triangular $\text{Li}_{1-x}\text{Ni}_x\text{O}_2$. *Physica* **B259-261**, 1003-1004 (1999).

Oeckler, O., V. Duppel, H. Mattausch and A. Simon: $\text{Y}_{21}\text{I}_{18}\text{C}_{14}\text{B}_7$: synthesis, average structure, and structural misfit. *Inorganic Chemistry* **38**, 1767-1771 (1999). [98.308]

Oeckler, O. siehe Mattausch, H.

Oles, A.M. and L.F. Feiner: Consequences of orbital degeneracy in insulating and doped manganites. *Journal of superconductivity* **12**, 299-302 (1999).

Oles, A.M., L.F. Feiner and H. Eskes: Spectral weights in the charge-transfer model. *Physica* **B259-261**, 451-453 (1999). [98.267]

Oshikiri, M. and F. Aryasetiawan: Band gaps and quasiparticle energy calculations on ZnO, ZnS, and ZnSe in the zinc-blende structure by the GW approximation. *Physical Review* **B60**, 10754-10757 (1999). [99.181]

Parrinello, M.: Ab initio simulation of chemical processes in realistic environments. *Journal of Molecular Structure - Theochem* **463**, 111-112 (1999).

Parrinello, M. siehe Benoit, M.; Berghold, G.; Billas, I.M.L.; Brugé, F.; Cavazzoni, C.; Eichinger, M.; Frank, I.; Ikeda, T.; Marx, D.; Molteni, C.; Ramaniah, L.M.; Rauei, S.; Rousseau, R.; Rovira, C.; Silvestrelli, P.L.; Stapper, G.; Trout, B.L.

Patonay, T., W. Adam, J. Jekö, K.E. Kövér, A. Lévai, M. Németh and K. Peters: Oxazepines and thiazepines 36¹. Diastereoselective sulfoxidation of 2,3-dihydro-1,5-benzothiazepin-4(5H)-ones by dimethyldioxirane. *Heterocycles* **51**, 85-94 (1999). [98.112]

Pau, S., J. Kuhl, M.A. Khan and C.J. Sun: Application of femtosecond-excitation correlation to the study of emission dynamics in hexagonal GaN. *Physical Review* **B58**, 12916-12919 (1998).

Pau, S., J. Kuhl, F. Scholz, C. Haerle, M.A. Khan and C.J. Sun: Study of hexagonal GaN by femtosecond-excitation correlation measurement and degenerate four-wave-mixing. *Springer Series in Chemical Physics* **63**, 251-253. (1998).

Pavarini, E. and L.C. Andreani: Competition between Coqblin-Schrieffer and local exchange interactions in Kondo systems by the perturbative renormalization group. *Physical Review* **B59**, 8828-8834 (1999). [98.238] - Coqblin-Schrieffer versus local exchange coupling: a perturbative renormalization group study. *Physica* **B259-261**, 198-199 (1999). [98.282]

Peters, K., E.-M. Peters, M. Ach and H. Quast: Crystal structure of *N*-methyl-*N*-(2-methylpropanoyl)-2-(*N*-methylamino)aniline, $(\text{C}_6\text{H}_4\text{NHCH}_3)\text{N}(\text{CH}_3)(\text{COC}_3\text{H}_7)$. *Zeitschrift für Kristallographie - New Crystal Structures* **213**, 709-710 (1998). [98.144] - Crystal structure of 3,4-dihydro-2,2,4-trimethyl-3-(*N*-phenylimino)-2*H*-1,4- benzoxazine, $(\text{CH}_3)_3(\text{NC}_6\text{H}_5)\text{C}_3\text{H}_4\text{NO}$. *Zeitschrift für Kristallographie - New Crystal Structures* **213**, 711-712 (1998).

Peters, K., E.-M. Peters, W. Adam, A. Pastor and T. Wirth: Crystal structure of $[\text{S}-(R^*,R^*)]-1-[3-(2,2\text{-dimethyl-4-phenyloxazolidine-3-yl})-1\text{-methyl-2-[methylidene-3-oxopropyl]}]-4\text{-phenyl-1,2,4-triazolidine-3,5-dione}$, $\text{C}_{11}\text{H}_{14}\text{NO}(\text{C}_5\text{H}_6\text{O})\text{C}_8\text{H}_6\text{N}_3\text{O}_2$. *Zeitschrift für Kristallographie - New Crystal Structures* **214**, 87-88 (1999). [98.255]

Peters, K., E.-M. Peters, D. Albrecht and A. Hetzheim: Crystal structure of 2-amino-3-(2-pyrrolidino-1,3,4-oxadiazol-5-yl)pyridine hydrate, $(C_4H_8N)(C_5H_5N_2)C_2N_2O \cdot H_2O$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 171-172 (1999).

Peters, K., E.-M. Peters, J. Balthasar and H. Quast: Crystal structure of 2,4,6-tri-*tert*-butylphenylazide, $(C_4H_9)_3C_6H_2N_3$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 723-725 (1998). [98.146]

Peters, K., E.-M. Peters, N.A. Braun and M.A. Ciufolini: Crystal structure of 1-[(1'*S*)-1'-benzyl-2'-(4-bromobenzoyloxy)ethyl]-1-azaspiro[4.5]deca-6,9-dien-2,8-dione hydrate, $C_{25}H_{22}NO_4Br \cdot H_2O$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 745-746 (1998). [98.148]

- Crystal structure of 6-acetoxy-2-benzyl-*cis*-2-azabicyclo[4.4.0]dec-7-en-9-one, $C_{18}H_{21}NO_3$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 273-274 (1999).

- Crystal structure of (2*S*,5*S*,10*S*)-2-benzyl-1-aza-4-oxa-tricyclo[8.3.0.05,10]tridecan-7,13-dione, $C_{11}H_{14}NO_3(CH_2C_6H_5)$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 555-556 (1999).

Peters, K., E.-M. Peters, M. Breuning and G. Bringmann: Crystal structure of 2-propyl 1-(2-hydroxy-4,6-dimethoxyphenyl)naphthoate, $C_{10}H_6(COOC_3H_7)[C_6H_2(OCH_3)_2OH]$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 251-252 (1999).

Peters, K., E.-M. Peters, T. Dietz and H. Quast: Crystal structure of 1,5-dimethylbicyclo[3.3.0]octa-2,6-diene palladium dichloride, $C_{10}H_{14}PdCl_2$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 713-714 (1998). [98.155]

Peters, K., E.-M. Peters, U.M. Dohr and H. Quast: Crystal structures of the diastereomeric 2-chloro-3-methyl-1-(2-methylphenyl)-1-phenyl-1-butenes, $C_4H_4(C_6H_5)(C_7H_7)ClCH_3$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 717-719 (1998). [98.158]

- Crystal structures of the diastereomeric 2-bromo-3-methyl-1-(2-methylphenyl)-1-phenyl-1-butenes, $C_4H_4(C_6H_5)(C_7H_7)BrCH_3$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 720-722 (1998). [98.157]

Peters, K., E.-M. Peters, E. Feineis and M. Christl: Crystal structure of 6-diethylamino-1,4-dihydro-5-methyl-4-oxo-3-phenyl-1-(4-toluoyl)pyridazine, $C_4N_2O(CH_3)(COC_6H_4CH_3)(N(C_2H_5)_2)(C_6H_5)$. Zeitschrift für Kristallographie **213**, 769-770 (1998). [98.161]

Peters, K., E.-M. Peters, B. Fröhling, S. Weinkötz and W. Adam: Crystal structure of *trans*-9-thiabicyclo[6.1.0]nonan-3-ol, $C_8H_{13}(S)OH$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 275-276 (1999).

Peters, K., E.-M. Peters, A.G. Griesbeck, M. Oelgemoeller and A. Bartoschek: Crystal structure of (S)-2-(1,3-dioxo-1,3-dihydro-isoindol-2-yl)propionic acid methyl ester, $C_8H_4NO_2[CH(CH_3)COOCH_3]$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 107-108 (1999). [98.245]

Peters, K., E.-M. Peters, K. Grunwald and A. Hetzheim: Crystal structure of 4,5-dimethyl-2-(4-methylpiperazin-1-yl)-3-phenacylimidazole, $C_3N_2(CH_3)_2(CH_2COC_6H_5)[C_4H_8N_2(CH_3)] \cdot H_2O$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 509-510 (1998). [98.076]

- Crystal structure of 2-amino-3-phenacyl-4,5-dimethylloxazolium bromide, $[C_3NO]^+(NH_2)(CH_3)_2[(CH_2CO)C_6H_5]Br^-$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 761-762 (1998). [98.166]

Peters, K., E.-M. Peters, C. Günther and G. Bringmann: Crystal structure of 1-hydroxy-8-methoxy-3-methylnaphthalene, $C_{10}H_5(OCH_3)(OH)(CH_3)$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 545-546 (1999).

Peters, K., E.-M. Peters, T. von Haugwitz and W. Tochtermann: Crystal structure of (4*R**,5*R**)-methyl 3,6-hexanooxepino[4,5-d]-2-pyrazoline-5-carboxylate, C₆H₁₂[C₇H₅N₂O]COOCH₃. Zeitschrift für Kristallographie - New Crystal Structures **214**, 95-96 (1999). [98.249]

- Crystal structure of (1*R**,8*R**)-8-hydroxy-19-oxa-tricyclo[8.8.1.0^{1,8}]nonadec-10-*Z*-ene-9,17,18-trione [17,18-product with *o*-phenylenediamine], (C₈H₄N₂)(C₁₆H₂₄O₃). Zeitschrift für Kristallographie - New Crystal Structures **213**, 495-496 (1998). [98.012]

Peters, K., E.-M. Peters, T. Hartung and G. Bringmann: Crystal structure of (*P*)-1-(2-hydroxyphenyl)-2-naphthoic acid (1*S*,2*R*,5*S*)-(+)-menthyl ester, C₁₀H₆[C₆H₄(OH)][COOC₆H₉(CH₃)(C₃H₇)]. Zeitschrift für Kristallographie - New Crystal Structures **214**, 553-554 (1999).

Peters, K., E.-M. Peters, J. Hegmann and M. Christl: Crystal structure of [1*R**,2*S**,3*R**(*S**),4*S**]- α -oxo-3-(10-oxo-9-phenylbicyclo[6.2.0]-dec-1(8)-en-9-yl)bicyclo[2.2.1]heptane-2-acetic acid methyl ester, C₄O(C₆H₁₂)(C₆H₅) [C₇H₁₀(C₃H₃O₃)]. Zeitschrift für Kristallographie - New Crystal Structures **213**, 765-766 (1998). [98.159]

Peters, K., E.-M. Peters, A. Hetzheim and T. Irrgang: Crystal structure of 1-acetylamino-4-(4-bromophenyl)-2-(4-ethoxycarbonylpiperazino)imidazole, C₃HN₂(C₆H₄Br)[C₄H₈N₂(COOC₂H₅)](NHCOCH₃). Zeitschrift für Kristallographie - New Crystal Structures **214**, 561-562 (1999).

Peters, K., E.-M. Peters, A. Hetzheim and P. Köckritz: Crystal structure of 1-acetyl-2-phenylcarbamoylmethylsemicarbazide, CH₂N₂H(COCH₃)(CONH₂)(CONHC₆H₅). Zeitschrift für Kristallographie - New Crystal Structures **214**, 557-558 (1999).

Peters, K., E.-M. Peters, G. Hüttner and M. Christl: Crystal structure of 5,6-dihydro-2-oxo-3-phenyl-2*H*-oxocin-8-carboxylic acid methyl ester, C₇H₆O₂(C₆H₅)C₂H₃O₂. Zeitschrift für Kristallographie - New Crystal Structures **213**, 767-768 (1998). [98.160]

Peters, K., E.-M. Peters, T. Irrgang and A. Hetzheim: Crystal structure of 2,4-dimethyl-5-4'-methylphenyl-7-pyrid-3-ylmethyl-aminoimidazo[1,5-*b*]pyridazine, (C₇H₇)C₈H₇N₃(C₆H₇N₂). Zeitschrift für Kristallographie - New Crystal Structures **213**, 759-760 (1998). [98.168]

- Crystal structure of 7-(2-acetoxypropylamino)-2,4-dimethyl-5-(4-methoxyphenyl)imidazo[1,5-*b*]pyridazine, (C₇H₇O)C₈H₇N₃(C₃H₁₀NO₂). Zeitschrift für Kristallographie - New Crystal Structures **214**, 165-166 (1999).

- Crystal structure of 1-amino-2-(3-hydroxypropylamino)-4-(4-chlorophenyl)imidazole hydrochloride semihydrate, (C₁₂H₁₆N₄OCl)Cl·0.5H₂O. Zeitschrift für Kristallographie - New Crystal Structures **214**, 167-168 (1999). [98.256]

- Crystal structure of 3,4-diphenyl-6-methyl-1-propargylaminoimidazo[1,5-*b*]pyridazine, (C₆H₅)₂C₇H₄N₃(C₃H₄N). Zeitschrift für Kristallographie - New Crystal Structures **214**, 339-340 (1999).

- Crystal structure of 4,6-dimethyl-3-phenyl-1-propargylaminoimidazo[1,5-*b*]pyridazine, (C₆H₅)C₈H₇N₃(C₃H₄N). Zeitschrift für Kristallographie - New Crystal Structures **214**, 341-342 (1999).

- Crystal structure of 3-(4-bromophenyl)-4,6-dimethyl-1-pyrid-3-ylmethylaminoimidazo[1,5-*b*]pyridazine, (C₆H₄Br)(C₆H₇N₂)C₆HN₃(CH₃)₂. Zeitschrift für Kristallographie - New Crystal Structures **214**, 343-344 (1999).

- Crystal structure of 1-acetylamino-2-morpholino-4-phenylimidazole, (C₆H₅)(C₂H₄NO)(C₄H₈NO)C₃HN₂. Zeitschrift für Kristallographie - New Crystal Structures **214**, 345-346 (1999).

- Crystal structure of 2-methyl-5-(4-methylphenyl)-7-phenyl-3-pyrid-3-ylaminoimidazo[1,5-*b*]pyridazine, (C₆H₅)(C₇H₇)(CH₃)(C₆H₇N₂)C₆HN₃. Zeitschrift für Kristallographie - New Crystal Structures **214**, 347-348 (1999).

- Crystal structure of 1-acetylamino-2-pyrrolidino-4-*tert*-butylimidazole, (C₄H₉)(C₂H₄NO)(C₄H₈N)C₃HN₂. Zeitschrift für Kristallographie - New Crystal Structures **214**, 349-350 (1999).

- Crystal structure of 2,4-dimethyl-5-(4-methoxyphenyl)-7-pyrid-3-ylmethylaminoimidazo[1,5-*b*]pyridazine, C₆HN₃(C₆H₇N₂)(C₇H₇O)(CH₃)₂. Zeitschrift für Kristallographie - New Crystal Structures **214**, 351-352 (1999).

- Crystal structure of 2-methyl-4-phenyl-5-(4-methoxyphenyl)-7-pyrid-3-ylmethylaminoimidazo[1,5-*b*]pyridazine, $C_6HN_3(CH_3)(C_6H_5)(C_6H_4OCH_3)(NHCH_2C_5H_4N)$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 559-560 (1999).

Peters, K., E.-M. Peters, L. Kirmaier, D. Ostendorf and M. Weidenbruch: Crystal structure of di-*tert*-butylbis(3-trimethylsilylethynyl)silane, $(C_4H_9)_2Si[C_2Si(CH_3)_3]_2$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 539-540 (1999).

Peters, K., E.-M. Peters, L. Kirmaier and M. Weidenbruch: Crystal structure of 1,1,2,2-tetra-*tert*-butyl-1,2-dichlorodisilane, $[(C_4H_9)_2ClSi]_2$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 747-748 (1998).

Peters, K., E.-M. Peters, V. Kirsch and W. Tochtermann: Crystal structure of (1*R**,8*R**,11*R**)-dimethyl 1-diacetoxymethyl-11-methoxybicyclo[6.2.1]undec-9-ene-9,10-dicarboxylate, $C_{11}H_{14}(COOCH_3)_2[CH(OCOCH_3)_2]OCH_3$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 97-98 (1999). [98.250]

Peters, K., E.-M. Peters, R. Kugler and V. Jaeger: Crystal structure of *rac*-(6*R*,1'*R*)-6-(1',2'-diacetoxyethyl)-2-phenyl-5,6-dihydro-4*H*-1,3-oxazine, $(C_6H_5)C_4H_5NO[C_2H_3(OCOCH_3)_2]$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 265-266 (1999).

Peters, K., E.-M. Peters, L. Leoni, F. Fabris and O. De Lucchi: Crystal structure of (3*S*,6*R*)-3-isopropyl-2-[(3*S*,6*R*)-6-isopropyl-3-methyl-1-cyclohexenyl]-6-methylcyclohexene, $[C_6H_7(CH_3)(C_3H_7)]_2$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 271-272 (1999).

- Crystal structure of (1*S*,1'*S*,2*S*,2'*S*,5*R*,5'*R*)-2,2'-diisopropyl-5,5'-dimethylbicyclohexyl-1,1-diol, $[(CH_3)_2C_6H_8OH(C_3H_7)]_2$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 355-356 (1999).

Peters, K., E.-M. Peters, M. Ochse and G. Bringmann: Crystal structure of 1-bromo-6-hydroxy-4-isopropoxy-8-methylnaphthalene, $C_{10}H_4(OC_3H_7)(OH)(CH_3)Br$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 541-542 (1999).

Peters, K., E.-M. Peters, M. Oelgemoeller and A. G. Griesbeck: Crystal structure of 4*b*-hydroxy-4*b*,6,8,9-tetrahydro-5*H*-7-thia-9*a*-azabenz[*a*]azulen-10-one, $C_{12}H_{13}NO_2S$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 757-758 (1998). [98.162]

Peters, K., E.-M. Peters, T. Panitzsch and W. Tochtermann: Crystal structure of tetramethylammonium triphenyl(9-triptycyl)borate, $C_4H_{12}N^+C_{38}H_{28}B^-$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 89-90 (1999). [98.246]

- Crystal structure of (3*aR**,6*aS**,9*aR**,9*bR**)-spiro[(1',3'-dioxolane)-2',6-(decahydro-9*a*-methoxycarbonyl-9-oxoazuleno[4,5-*c*]furan-1(3*H*)-one)], $C_2H_4O_2[C_{12}H_{13}O_3]COOCH_3$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 101-102 (1999). [98.252]

- Crystal structure of (3*aR**,6*aR**,9*aR**,9*bS**)-spiro[(1',3'-dioxolane)-2',6-(decahydro-9*a*-methoxycarbonyl-9-oxoazuleno[4,5-*c*]furan-1(3*H*)-one)], $C_2H_4O_2[C_{12}H_{13}O_3]COOCH_3$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 103-104 (1999). [98.253]

- Crystal structure of (3*aR**,6*aR**,9*aR**,9*bS**)-spiro[(1',3'-dioxolane)-2',6-(decahydro-9*a*-methoxycarbonyl-8,8-dimethyl-9-oxoazuleno[4,5-*c*]furan-1(3*H*)-one)], $C_2H_4O_2[C_{12}H_{11}O_3](CH_3)_2COOCH_3$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 105-106 (1999). [98.254]

- Crystal structure of (3*aR**,4*S**,5*R**,8*aR**)-dimethyl spiro[(1',3'-dioxolane)-2',8-(5-formyloxymethyldecahydro-3-oxoazuleno-3*a*,4-dicarboxylate)], $(COOCH_3)_2C_{12}H_{15}O_3(CH_2OCHO)$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 267-268 (1999).

- Crystal structure of (3*aR**,6*aS**,9*aS**,9*bR**)-decahydro-8,8-dimethyl-6,9-dioxoazuleno[4,5-*c*]furan-1(3*H*)-one, $(CH_3)_2C_{12}H_{12}O_4$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 269-270 (1999).

- Crystal structure of (3*aR**,6*aR**,9*aR**,9*bR**)-spiro[(1',3'-dioxolane)-2',6-(decahydro-8,8-dimethyl-9-oxoazuleno[4,5-*c*]furan-1(3*H*)-one)], $(CH_3)_2C_{14}H_{16}O_5$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 357-358 (1999).

- Crystal structure of (3aR*,6aR*,9aR*,9bS*)-decahydro-8,8-dimethyl-6,9-dioxo-9a-methoxycarbonylazuleno[4,5-c]furan-1(3H)-one, (CH₃)₂C₁₀H₈O₂(COOCH₃)₂. Zeitschrift für Kristallographie - New Crystal Structures **214**, 359-360 (1999).

Peters, K., E.-M. Peters, M. Petroll and W. Tochtermann: Crystal structure of (1'R*,3R*,3aR*,4S*,8aR*)-dimethyl 1',3-epoxy-decahydro-3,5-(2'-oxapropanylidene)-8-oxo-azulene-3a,4-dicarboxylate, C₁₂H₁₂O₃(COOCH₃)₂. Zeitschrift für Kristallographie - New Crystal Structures **214**, 91-92 (1999). [98.247]
- Crystal structure of (1''R*,3'R*,3aR*,4S*,5S*,8aR*)-dimethyl decahydro-3,5-(3',5'-bromomethano-2'-oxapropanylidene)-8-oxo-azulene-3a,4-dicarboxylate, (COOCH₃)₂C₁₃H₁₃O₂Br. Zeitschrift für Kristallographie - New Crystal Structures **214**, 93-94 (1999). [98.248]

Peters, K., E.-M. Peters, J. Raczko and V. Jäger: Crystal structure of (2R,3S,1'S)-3,5-O-benzylidene-1-nitro-2,3,5-pentanetriol, (C₆H₅)C₄H₆O₂(C₂H₄NO₃). Zeitschrift für Kristallographie - New Crystal Structures **213**, 751-752 (1998). [98.165]

- Crystal structure of (3S,4S,5R,1'S)-1,3-O-benzylidene-6-methyl-4-nitro-1,3,5-heptanetriol, (C₆H₅)C₄H₆O₂(C₃H₁₀NO₃). Zeitschrift für Kristallographie - New Crystal Structures **213**, 753-754 (1998). [98.164]

- Crystal structure of (3S,4R,5R,1'S)-1,3-O-benzylidene-6-methyl-4-nitro-1,3,5-heptanetriol, (C₆H₅)C₄H₆O₂(C₃H₁₀NO₃). Zeitschrift für Kristallographie - New Crystal Structures **213**, 755-756 (1998). [98.163]

- Crystal structure of (1'S)-4,6-di-O-benzylidene-2,5-dideoxy-2-nitro-L-ribo-hexose diethyl acetal, (C₆H₅)(C₄H₆O₂)[C₃H₃(OH)(NO₂)](OC₂H₅)₂. Zeitschrift für Kristallographie - New Crystal Structures **214**, 261-262 (1999).

- Crystal structure of 3-O-benzyl-6,8-di-O-benzylidene-5,7-dideoxy-1,2-di-O-isopropylidene-5-nitro-L-glycero-D-galacto-octitol, (C₆H₅)(C₄H₆O₂)[C₃H₃(NO₂)(OH)(OCH₂C₆H₅)][(C₃H₃O₂)(CH₃)₂]. Zeitschrift für Kristallographie - New Crystal Structures **214**, 263-264 (1999).

Peters, K., E.-M. Peters, D. Regnat and H. Quast: Crystal structure of 1,4,9,9-tetramethyl-6-phenyl-1,2,3,4,6,7,8-heptaazaspiro[4.4]nona-2,7-diene, C₁₂H₁₇N₇. Zeitschrift für Kristallographie - New Crystal Structures **213**, 705-706 (1998). [98.149]

Peters, K., E.-M. Peters, R. Reinhardt and H. Quast: Crystal structure of cis-N,N'-bis(1-methyl-3-phenyl-1-propen-3-onyl)-1,2-cyclopropanediamine, C₃H₆N₂(C₁₀H₉O)₂. Zeitschrift für Kristallographie - New Crystal Structures **213**, 701-702 (1998). [98.084]

- Crystal structure of 1,4,8,11-tetraaza-5,7,12,14-tetramethylcyclotetradeca-4,6,11,13-tetraene bis(hydroperchlorate), (C₇H₁₂N₂)₂(HClO₄)₂. Zeitschrift für Kristallographie - New Crystal Structures **213**, 703-704 (1998).

Peters, K., E.-M. Peters, S. Schneider and G. Bringmann: Crystal structure of 3-methoxy-2-naphthoic acid, phenyl ester, C₁₀H₆(OCH₃)(COOC₆H₅). Zeitschrift für Kristallographie - New Crystal Structures **214**, 245-246 (1999).

- Crystal structure of 2-(4,4-dimethyl-4,5-dihydro-1,3-oxazol-3-yl)-1-methoxynaphthalene, C₁₀H₆(OCH₃)[C₃H₂NO(CH₃)₂]. Zeitschrift für Kristallographie - New Crystal Structures **214**, 247-248 (1999).

- Crystal structure of 1-bromo-2-methyl-dinaphtho[2,1-b:1',2'-d]pyran-4-one, C₂₁H₁₀O₂Br(CH₃). Zeitschrift für Kristallographie - New Crystal Structures **214**, 543-544 (1999).

Peters, K., E.-M. Peters, B. Schoknecht and A. Hetzheim: Crystal structure of 2,4-dimethyl-5-(4'-methoxyphenyl)-7-thioxoimidazo[1,5-b]pyridazine, C₆H₂N₃S(CH₃)₂C₆H₄OCH₃. Zeitschrift für Kristallographie - New Crystal Structures **213**, 763-764 (1998). [98.167]

- Crystal structure of 1-(2,5-dimethylpyrrolidino)-4-(4-methoxyphenyl)imidazole-2(1H)-thione, C₁₆H₁₇N₃OS. Zeitschrift für Kristallographie - New Crystal Structures **214**, 175-176 (1999).

- Crystal structure of 3-tert-butyl-7-(4-hydroxyphenyl)imidazo[2,1-b][1,3,4]thiadiazine, (C₆H₄OH)C₅H₃N₃S[C(CH₃)₃]. Zeitschrift für Kristallographie - New Crystal Structures **214**, 177-178 (1999).

Peters, K., E.-M. Peters, M. Seefeldler and H. Quast: Crystal structure of (Z,Z)-3,8-bis[1-(difluoroboryloxy)ethylidene] decane- 2,9-dione, $C_{10}H_{14}O_2(C_2H_5OBF_2)_2$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 537-538 (1999).

Peters, K., E.-M. Peters, G. Seufert and V. Jäger: Crystal structure of 3-[2'-(1",3"-dioxolane-2"-yl)-1'-nitroethyl]cyclohexanone, $[(C_6H_9O)(C_3H_5O_2)]C_2H_3NO_2$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 749-750 (1998). [98.147]

Peters, K., E.-M. Peters, A. Taugerbeck and W. Tochtermann: Crystal structure of (1*R**,2*S**,3*R**,4*R**)-ethyl 3-acetoxy- 1,2,3,4,5,6,7,8,9,10,11,12,13,14-tetradecahydro-1,4-epoxybenzo-cyclodecene- 2-carboxylate, $C_{10}H_{20}[C_6H_4O](COOC_2H_5)(OCOCH_3)$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 99-100 (1999). [98.251]

Peters, K., E.-M. Peters, C. Vedder and G. Bringmann: - Crystal structure of dibenzylidiphenylphosphonium bromide, $(C_6H_5)_2(CH_2C_6H_5)_2PBr$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 249-250 (1999).

- Crystal structure of 1-(2'-hydroxy-4',6'-dimethylphenyl)-2- (diphenylphosphinoyloxymethyl)naphthalene-dichloromethane (1/1), $[C_{10}H_6CH_2OPO(C_6H_5)_2] [C_6H_2(CH_3)_2(OH)] \cdot CH_2Cl_2$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 547-548 (1999).

- Crystal structure of 1-(2'-benzoyl-4',6'-dimethylphenyl)-2- methyl-naphthalene, $[C_{10}H_6CH_3][C_6H_2(OCH_2C_6H_5)(CH_3)_2]$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 549-550 (1999).

Peters, K., E.-M. Peters, B. Ventzke and A. Hetzheim: Crystal structure of 2-amino-3-methoxycarbonylmethyl-5-phenyl-1,3- oxazolium bromide, $N^+(C_9H_8NO)(C_3H_5O_2)Br^-$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 169-170 (1999). [98.258]

- Crystal structure of sodium salt of 2-amino-3-carboxymethyl-4,5-dimethyl- 1,3-oxazolium bromide trihydrate, $C_7H_{10}N_2O_3Na(H_2O)_3Br$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 173-174 (1999).

- Crystal structure of 2-amino-4,5-dimethyl-3-ethoxycarbonylmethyl-1,3- oxazolium bromide, $[C_3NO]^+(NH_2)(CH_3)_2[(CH_2CO)OC_2H_5]Br^-$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 353-354 (1999).

Peters, K., E.-M. Peters, M.L. Werner and H. Quast: Crystal structure of (1*S**,7*R**,10*S**,16*R**)-2,6,11,15,-tetraazatricyclo[14.2.0.0^{7,10}]octadeca-2,4,11,13-tetraene bis(hydroperchlorate), $(C_7H_{10}N_2)_2(HClO_4)_2$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 707-708 (1998). [98.145]

Peters, K., E.-M. Peters, M. Witzel and H. Quast: Crystal structure of 3-(phenylethynyl)-2-oxatricyclo[3.3.1.1^{5,7}] decan-1- ol, $C_9H_{12}O(OH)(C_2C_6H_5)$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 715-716 (1998). [98.156]

Peters, K., E.-M. Peters, A. Wuzik and G. Bringmann: Crystal structure of 2-trifluoromethylsulfonyloxydinaphtho[2,1-*b*:1',2'-*d*]pyran-4-one, $C_{21}H_{11}O_2(OSO_2CF_3)$. Zeitschrift für Kristallographie - New Crystal Structures **214**, 551-552 (1999).

Peters, K. siehe Adam, W.; Baitinger, M.; Bolle, U.; Braun, M.; Bringmann, G.; Brown, R.S.; Cardoso Gil, R.; Carrillo-Cabrera, W.; Christl, M.; Griesbeck, A.G.; Hemmerling, M.; Höhle, W.; Kirsche, V.; Kollenz, G.; Kröner, R.; Lin, C.T.; Menke, H.; Mujica, C.; Patonay, T.; Quast, H.; Schnering, H.G. von; Somer, M.; Tochtermann, W.; Weidenbruch, M.; Werner, H.; Zheng, Y.-Q.

Philipp, G., M. Burghard and S. Roth: Transmission electron microscopy and electrical transport investigations performed on the same single-walled carbon nanotube. AIP Conference Proceedings **442**, 74-78 (1998).

Philipp, G., C. Müller-Schwanneke, M. Burghard, S. Roth and K. von Klitzing: Gold cluster formation at the interface of a gold/Langmuir-Blodgett film/gold microsandwich resulting in Coulomb charging phenomena. *Journal of Applied Physics* **85**, 3374-3376 (1999). [99.142]

Philipp, G., T. Weimann, P. Hinze, M. Burghard and J. Weis: Shadow evaporation method for fabrication of sub 10 nm gaps between metal electrodes. *Microelectronic Engineering* **46**, 157-160 (1999). [99.141]

Philipp, G. siehe Burghard, M.

Poddar, A., P. Muruguraj, R. Fischer, E. Gmelin, K. Barner, L. Haupt, P. Mandal and G.H. Rao: Hall measurements on $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_{3-\delta}$ and $\text{Nd}_{2/3}\text{Sr}_{1/3}\text{MnO}_{3-\delta}$ -a comparative study. *Physica* **B254**, 21-27 (1998).

Pöttgen, R., Th. Gulden and A. Simon: Miniaturisierte Lichtbogenapparatur für den Laborbedarf zum Schmelzen von Reaktanden und zum Verschweißen von Metallampullen unter Wasserkühlung. *GIT Labor-Fachzeitschrift* **2**, 133-136 (1999).

Potemski, M.: Magneto-optics of a two-dimensional electron gas. *Physica* **B256-258**, 283-291 (1998).

Potemski, M., L. Gravier, E. Perez, M. D. Martin, L. Vina, A. Fischer and K. Ploog: Dynamics of spin polarization in a two-dimensional electron gas. In: *Proceedings of the 24th International Conference on the Physics of Semiconductors*, (Ed.) D. Gershoni. World Scientific, Singapore 1999, 371-374.

Potemski, M., E. Perez, D. Martin, L. Vina, L. Gravier, A. Fischer and K. Ploog: Spin polarization of an optically pumped electron gas. *Solid State Communications* **110**, 163-168 (1999).

Praus, R.B., B. Leibold, G.M. Gross and H.-U. Habermeier: Thickness dependent properties of $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ thin films. *Applied Surface Science* **138-139**, 40-43 (1999).

Praus, R.. siehe Gross, G.M.; Habermeier, H.-U.

Predel, M.: Evaluation of effective neutron cross sections in double heterogeneous reactor regions with low number densities of coated particles. *Kerntechnik* **63**, 185-187 (1998).

Prelovsek, P. and P. Horsch: Electron-energy loss spectra and plasmon resonance in cuprates. *Physical Review* **B60**, R-3735-R3738 (1999). [99.060]

Putz, H., J.Chr. Schön and M. Jansen: Investigation of the energy landscape of Mg_2OF_2 . *Computational Materials Science* **11**, 309-322 (1998).

- Combined method for *ab initio* structure solution from powder diffraction data. *Journal of Applied Crystallography* **32**, 864-870 (1999).

- Structure prediction for crystalline Ca_3SiBr_2 using an environment dependent potential. *Zeitschrift für Anorganische und Allgemeine Chemie*. **625**, 1624-1630 (1999).

Quast, H., M. Seefeldler, Chr. Becker, Markus Heubes, E.-M. Peters and K. Peters: Extension of Saunderson's isotopic perturbation method as probe for the structures in solution of 2,4,6,8-substituted barbaralanes – NMR-spectroscopic evidence for the coexistence of localised and delocalised states. *European Journal of Chemistry* **1999**, 2763-2779 (1999).

Quast, H., M. Seefeldler, S. Ivanova, M. Heubes, E.-M. Peters and K. Peters: Tetraacyloethenes as Dienophiles and hetero dienes in two-step Diels-Alder reactions. *European Journal of Organic Chemistry* **1999**, 3343-3351 (1999).

Quast, H., M. Seefeldler, E.-M. Peters and K. Peters: Synthesis, crystal structure, and circular dichroism spectra of (1*S*)-4,8-diphenylbarbaralane-2,6-dicarbonitrile – chiroptical properties of the transition state of a degenerate cope rearrangement. *European Journal of Organic Chemistry* **1999**, 1811-1823 (1999).

Queisser, H.-J.: Mächtige Monopole der Materialien. In: Neue Zürcher Zeitung, **2**, 202 (1999).
 - Der "Transistor" als technisches und kulturelles Phänomen. In: Isis **90/2**, 403 (1999).
 - Genesis of the transistor. In: Proceedings of the 25th International Conference on the Physics of Semiconductors, (Ed.) D. Gershoni, World Scientific, Singapore 1999, 1-8.
 - Konfuzius unstrittig. In: Rechtshistorisches Journal **18**, 644-647 (1999).
 - Die Schöpfung, vom Physiker gesehen. In: Journal der Internationalen Backakademie **3**, 1-6 (1999).
 - Navigators. In: Proc. Int. Congr. Marine Ins., Berlin 1999, 1-7.

Queisser, H.-J. und K. Ganzhorn: Geburtstag des Transistors und Revolution der Mikroelektronik. In: TechnikDialog **15**, 1-18 (1998).

Ramaniah, L.M., A.M. Bernasconi and M. Parrinello: Density-functional study of hydration of sodium in water clusters. Journal of Chemical Physics **109**, 6839-6843 (1998).

Ramaniah, L.M., M. Parrinello, M. Bernasconi and M. Parrinello: Ab initio molecular-dynamics simulation of K⁺ solvation in water. Journal of Chemical Physics **111**, 1587-1591 (1999).

Ramlau, R., V. Duppel and A. Simon: The structure and chemistry of twin interfaces in cluster compounds. In: Proceedings of the 14th International Congress of Electron Microscopy, Vol. 3, (Eds.) H. A. Calderon Benavides et al.. IOP, Bristol 1998, 345-146.

Ramlau, R., R.E. McCarley and A. Simon: High-resolution electron microscopy investigations on the real structure of reduced barium oxomolybdates. I. Polytypism and chemical intergrowth in Ba₃Mo₁₈O₂₈. Journal of Solid State Chemistry **142**, 89-99 (1999). [98.070]

Raugei, S., P.L. Silvestrelli and M. Parrinello: Pressure-induced frustration and disorder in Mg(OH)₂ and Ca(OH)₂. Physical Review Letters **83**, 2222-2225 (1999). [98.220]

Remenyi, G., N. Hegman, J.C. Lasjaunias, S. Sahling, G. Dhalenne and A. Revcolevschi: A heat capacity investigation of the soliton lattice in the high-field incommensurate phase of CuGeO₃. Europhysics Letters **46**, 685-691 (1999).

Rigal, L.B., D.K. Maude, M. Potemski, J.C. Portal, L. Eaves, Z.R. Wasilewski, G. Hill and M.A. Pate: Phase diagram for the breakdown of the quantum Hall effect. Physical Review Letters **82**, 1249-1252 (1999).

Rings, S., R. Sievers and M. Jansen: Analysis of the spatial distribution of the constituting elements in amorphous solids: laser ablation with ICP spectrometry. Fresenius Journal of Analytical Chemistry **363**, 165-173 (1999). [98.105]

Rodewald, S., J. Fleig and J. Maier: Measurement of conductivity profiles in acceptor-doped strontium titanate. Journal of the European Ceramic Society **19**, 797-801 (1999). [98.210]

Romanini, D., P. Dupré and R. Jost: Non-linear effects by continuous wave cavity ringdown spectroscopy in jet cooled NO₂. Vibrational Spectroscopy **19**, 93-106 (1999).

Rönnow, D., M. Cardona and L.F. Lastras-Martinez: Piezo-optical coefficients of ZnSe and ZnTe above the fundamental gap. Physical Review **B59**, 5581-5590 (1999). [98.206]

Rönnow, D., N.E. Christensen and M. Cardona: Deformation potentials of the E1 transition in Ge, GaAs, InP, ZnSe, and ZnTe from ab initio calculations. Physical Review **B59**, 5575-5580 (1999). [98.284]

Rönnow, D., L.F. Lastras-Martinez and M. Cardona: Isotope effects on the electronic critical points of germanium: ellipsometric investigation of the E1 and E_{1+δ} 1 transitions. European Physical Journal **B5**, 29-35 (1998).

- Piezo-optical properties of ZnSe and ZnTe above the fundamental gap studied by reflectance difference spectroscopy. In: Proceedings of the 24th International Conference on the Physics of Semiconductors, (Ed.) D. Gershoni. World Scientific, Singapore 1998, 1920-1923.

Rönnow, D., L.E. Lastras-Martinez, M. Cardona and P.V. Santos: Determination of the piezo-optical properties of semiconductors above the fundamental gap by means of reflectance difference spectroscopy. Journal of the Optical Society of America **A16**, 568-573 (1999). [98.131]

Rönnow, D., T. Lindstroem, J. Isidorsson and C.-G. Ribbing: Surface roughness of oxidised copper films studied by atomic force microscopy and spectroscopic light scattering. Thin Solid Films **325**, 92-98 (1998).

Roshko, S., W. Dietsche and L.J. Challis: Spectroscopic evidence for cyclotron phonon emission from two-dimensional electron gases. Physica **B263-264**, 187-189 (1999).

Roth, S. siehe Baughman, R.H.; Blumentritt, S.; Burghard, M.; Duesberg, G.S.; Eickelkamp, T.; Kaiser, A.B.; Kim, G.T.; Liu, K.; Muster, J.; Philipp, G.; Thomsen, C.

Rousseau, R., M. Boero, M. Bernasconi, M. Parrinello and K. Terakura: Static structure and dynamical correlations in high pressure H₂S. Physical Review Letters **83**, 2218-2221 (1999).

Rousseau, R., G. Dietrich, S. Kruckeberg, K. Lutzenkirchen, D. Marx, L. Schweikhard and C. Walther: Probing cluster structures with sensor molecules: methanol adsorbed onto gold clusters. Chemical Physics Letters **295**, 41-46 (1998).

Rousseau, R. and D. Marx: The role of quantum and thermal fluctuations upon properties of lithium clusters. Journal of Chemical Physics **111**, 5091-5101 (1999). [99.052]

Rovira, C. and M. Parrinello: Factors influencing ligand-binding properties of heme models: a first principles study of picket-fence and protoheme complexes. Chemistry: A European Journal **5**, 250-262 (1999). [98.102]

Rovira, C., P. Carloni and M. Parrinello: The iron-sulfur bond in cytochrome *c*. Journal of Physical Chemistry **B103**, 7031-7035 (1999).

Rubaldo, L., P. Deixler, I.D. Hawkins, J. Terry, D.K. Maude, J.-C. Portal, J.H. Evans-Freeman, L. Dobaczewski and A.R. Peaker: Gold-hydrogen complexes in silicon. Materials Science and Engineering **B58**, 126-129 (1999).

Rubel, H., A. Fischer, W. Dietsche, C. Jörgler, K. von Klitzing and K. Eberl: The frictional drag between coupled two-dimensional electronic systems in magnetic fields. Physica **B249-251**, 859-863 (1998).

Ruf, T.: High-temperature superconductivity. Fundamental research and application. Physik in unserer Zeit **29**, 160-167 (1998).

Ruf, T., O.Z. Karimov, D. Wolverson, J.J. Davies, A.N. Reznitsky, A.A. Klochikhin, S.Yu. Verbin, L.N. Tenishev, S.A. Permogorov and S.V. Ivanov: Spin-flip Raman scattering in submonolayer CdSe/ZnSe structures. Physica **B274**, 911-914 (1999). [99.081]

Ruf, T. siehe Capinski, W.S.; Giehler, M.; Göbel, A.; Hadjiev, V.G.; Jandl, S.; Karimov, O.Z.; Konstantinovic, M.J.; Martin, A.A.; Nekvasil, V.; Sapega, V.F.; Serrano, J.; Sirenko, A.A.; Widulle, F.

Rybaltchenko, L.F., N.L. Bobrov, V.V. Fisun, I.K. Yanson, A.G.M. Jansen and P. Wyder: Reversible transitions in high-T_c cuprates based point contacts. European Physical Journal **B10**, 475-480 (1999).

Rybaltchenko, L.F., A.G.M. Jansen, P. Wyder, L.V. Tjutrina, P.C. Canfield, C.V. Tomy and D.McK. Paul: Point-contact study of the magnetic superconductor $\text{HoNi}_2\text{B}_2\text{C}$. *Physica* **C319**, 189-196 (1999).

Sachse, J.-U., E.O. Sveinbjörnsson, N. Yarykin and J. Weber: Similarities in the electrical properties of transition metal-hydrogen complexes in silicon. *Materials Science and Engineering* **B58**, 134-140 (1999).

Sachse, J.-U., J. Weber and E.O. Sveinbjörnsson: Hydrogen-atom number in platinum-hydrogen complexes in silicon. *Physical Review* **B60**, 1474-1476 (1999).

Sadowski, M.L., M. Grynberg, A.M. Witowski, S. Huant and G. Martine: Bolometric effect in the far-infrared response of a conducting layer on a semi-insulating substrate. *Physical Review* **B60**, 10908-10912 (1999).

Sadowski, M. L., M. Grynberg, A.M. Witowski and G. Martinez: The bolometric effect in the far infrared photoconductivity of layered semiconductor structures. In: Proceedings of the 24th International Conference on the Physics of Semiconductors, (Ed.) D. Gershoni. World Scientific, Singapore 1998, 1438-1442.

Sadowski, M. L., F. J. Teran, M. Potemski, G. Karczewski, M. Kutrowski, J. Jaroszynski and T. Wojtowicz: Cyclotron resonance and photoluminescence of $\text{CdMnTe}/\text{CdMgTe}$ modulation doped quantum wells. In: Proceedings of the 24th International Conference on the Physics of Semiconducting, (Ed.) D. Gershoni. World Scientific, Singapore 1998, 670-674.

Samuely, P., J. Kacmarcik, P. Szabo and A.G.M. Jansen: Point-contact/tunneling spectroscopy studies of the upper critical field in superconductors. *Acta Physica Slavaca* **48**, 789-792 (1998).

Sapega, V.F., V.I. Perell, D.N. Mirlin, T. Ruf, M. Cardona, W. Winter and K. Eberl: Spectroscopy of hot electron photoluminescence in GaAs/AlAs superlattices. *Physica Status Solidi* **B215**, 379-386 (1999).
- Hot photoluminescence polarization study of dimensionality effects in GaAs. In: Proceedings of the 24th International Conference on the Physics of Semiconductors, (Ed.) D. Gershoni. World Scientific, Singapore 1998, CD-ROM.

Sarge, St.M., G.W.H. Höhne, H.K. Cammenga, W. Eysel and E. Gmelin: Temperatur-, Wärme- und Wärmestromkalibrierung dynamischer Kalorimeter beim Kühlen. *PTB-Mitteilungen* **109**, 358-375 (1999).

Sasaki, K. and J. Maier: Low temperature defect chemistry of oxide electroceramics. *Key Engineering Materials* **169-170**, 189-192 (1999).

- Low temperature defect chemistry of oxides. *Journal of the European Ceramic Society* **19**, 741-745 (1999). [98.211]

- Low-temperature defect chemistry of oxides. I. General aspects and numerical calculations. *Journal of Applied Physics* **86**, 5422-5433 (1999). [99.022/1]

- Low-temperature defect chemistry of oxides. II. Analytical relations. *Journal of Applied Physics* **86**, 5434-5443 (1999). [99.022/2]

Sasaki, K., J. Claus and J. Maier: Defect chemistry of oxides in partially frozen-in states: case studies for $\text{ZrO}_2(\text{Y}_2\text{O}_3)$, $\text{SrZrO}_3(\text{Y}_2\text{O}_3)$, and SrTiO_3 . *Solid State Ionics* **121**, 51-60 (1999). [98.039]

Sasaki, K., M. Haseidl and J. Maier: Defect chemistry and transport properties of solid electrolytes including the influence of redox-active impurity ions. *Key Engineering Materials* **169-170**, 193-196 (1999).

Schaub, T., J. Delahaye, C. Gignoux, C. Berger, G. Foucaudot, F. Giroud, T. Grenet and A.G.M. Jansen: Pseudogap in quasicrystals probed by tunneling spectroscopy. *Journal of Non-Crystalline Solids* **250-252**, 874-877 (1999).

Schmidt, O.G. and K. Eberl: Photoluminescence and band edge alignment of C-induced Ge islands and related SiGeC structures. *Applied Physics Letters* **73**, 2790-2792 (1998). [98.118]

- Schmidt, O.G., K. Eberl and J. Auerswald:* C-induced Ge dots: enhanced light-output from Si-based nanostructures. *Journal of Luminescence* **80**, 491-495 (1998). [98.113]
- Schmidt, O.G., K. Eberl, S. Schieker, N. Y. Jin-Phillipp, F. Phillipp, J. Auerswald and P. Lamperter:* Stacked layers of C-induced Ge quantum dots. *Materials Research Society Symposium Proceedings* **533**, 171-176 (1998). [98.082]
- Schmidt, O.G., O. Kienzle, Y. Hao, K. Eberl and F. Ernst:* Modified Stranski-Krastanov growth in stacked layers of self-assembled islands. *Applied Physics Letters* **74**, 1272-1274 (1999). [98.297]
- Schmidt, O.G., C. Lange and K. Eberl:* Photoluminescence study of the initial stages of island formation for Ge pyramids/domes and hut clusters on Si(001). *Applied Physics Letters* **75**, 1905-1907 (1999). [99.076]
- Photoluminescence study of the 2D-3D growth mode changeover for different Ge/Si island phases. *Physica Status Solidi* **B215**, 319-324 (1999).
- Schmidt, O.G., C. Lange, K. Eberl, O. Kienzle and F. Ernst:* C-induced Ge dots: a versatile tool to fabricate ultra-small Ge nanostructures. *Thin Solid Films* **336**, 248-251 (1998). [98.111]
- Schmidt, O.G. siehe Brunner, K.; Duschl, R.; Eberl, K.
- Schnelle, W., J. Engelhardt and E. Gmelin:* Specific heat capacity of Apiezon N high vacuum grease and of Duran borosilicate glass. *Cryogenics* **39**, 271-275 (1999).
- Schnelle, W., E. Gmelin, O. Crottaz and H. Schmid:* Low temperature specific heat capacity of 3d transition metal chlorine boracites ($T_3B_7O_{13}Cl$; T=Cr, Mn, Fe, Co, Ni, Cu, Zn or Mg). *Journal of Thermal Analysis and Calorimetry* **56**, 365-370 (1999). [98.269]
- Schnelle, W., Y. Grin and R.K. Kremer:* Specific heat of α' - NaV_2O_5 in magnetic fields up to 16 T. *Physical Review* **B59**, 73-76 (1999).
- Schnering, H.G. von, W. Carrillo-Cabrera, R. Kröner, E.-M. Peters, K. Peters and R. Nesper:* Crystal structure of the clathrate β - $Ba_8Ga_{16}Sn_{30}$. *Zeitschrift für Kristallographie - New Crystal Structures* **213**, 679 (1998). [98.127]
- Schnering, H.G. von, R. Kröner, H. Menke, K. Peters and R. Nesper:* Crystal structure of the clathrates $Rb_8Ga_8Sn_{38}$, $Rb_8Ga_8Ge_{38}$ and $Rb_8Ga_8Si_{38}$. *Zeitschrift für Kristallographie - New Crystal Structures* **213**, 677-678 (1998). [98.178]
- Schnering, H.G. von, R. Kröner, W. Carrillo-Cabrera, K. Peters and R. Nesper:* Crystal structure of the novel chiral clathrate, $Ba_6In_4Ge_{21}$. *Zeitschrift für Kristallographie - New Crystal Structures* **213**, 665-666 (1998). [98.184]
- Schnering, H.G. von, J. Llanos, Y. Grin, W. Carrillo-Cabrera, E.-M. Peters, K. Peters and R. Nesper:* Crystal structure of dicaesium disodium tetragermanide(4-), $Cs_2Na_2Ge_4$. *Zeitschrift für Kristallographie - New Crystal Structures* **213**, 661 (1998). [98.188]
- Schnering, H.G. von, H. Menke, R. Kröner, E.-M. Peters, K. Peters and R. Nesper:* Crystal structure of the clathrates $Rb_8In_8Ge_{38}$ and $K_8In_8Ge_{38}$. *Zeitschrift für Kristallographie - New Crystal Structures* **213**, 673-674 (1998). [98.180]
- Schnering, H.G. von, D. Vu, S.-L. Jin and K. Peters:* Crystal structure redetermination of the octahedro-hexatantalum(2.5+) pentadecahalides, Ta_6Cl_{15} and Ta_6Br_{15} . *Zeitschrift für Kristallographie - New Crystal Structures* **214**, 15-16 (1999).

- Schön, J.Chr. and M. Jansen:* Predicting structures of compounds in the solid state by the global optimisation approach. In: Pauling's Legacy: Modern Modelling of the Chemical Bond, (Eds.) Z. B. Maksic and W.J. Orville-Thomas. Theoretical and Computational Chemistry 6. Elsevier, Amsterdam 1999, 103-128.
- Structure prediction of solids via investigation of potential energy surfaces. *Acta Crystallographica* **A55**, 215 (1999).
- Schönherr, E. and M. Freiberg:* In situ observation of twin formation during the growth of ZnSe single crystals from the vapor phase. *Journal of Crystal Growth* **197**, 455-461 (1999). [98.110]
- Schönherr, E., K. Matsumoto and M. Freiberg:* On the evaporation of C₆₀ in vacuum and inert gases at temperatures between 830 K and 1050 K. *Fullerene Science and Technology* **7**, 455-466 (1999). [98.278]
- Schuler, H. and K. Eberl:* Size and shape modification of self assembled InAs quantum dots and stacked layers by in-situ etching. *Microelectronics Journal* **30**, 341-345 (1999).
- Schuler, H., N.Y. Jin-Phillipp, F. Phillipp and K. Eberl:* Size modification of self-assembled InAs quantum dots by in situ etching. *Semiconductor Science and Technology* **13**, 1341-1345 (1998). [98.214]
- Schwandt, C. and W. Weppner:* Variation of the oxygen exchange rate of zirconia-based electrodes by electrochemical pretreatment. *Solid State Ionics* **112**, 229-236 (1998).
- Variation of the oxygen exchange rate of zirconia-based electrodes by electrochemical treatment. *Solid State Ionics* **112**, 237-243 (1998).
- Schwarz, U., A. Grzechnik, K. Syassen, I. Loa and M. Hanfland:* Rubidium-IV: a high pressure phase with complex crystal structure. *Physical Review Letters* **83**, 4085-4088 (1999). [99.097]
- Schwarz, U., K. Syassen, A. Grzechnik and M. Hanfland:* The crystal structure of rubidium-VI near 50 GPa. *Solid State Communications* **112**, 319-322 (1999).
- Sembian, A.M., M. Konuma, I. Silier, A. Gutjahr, N. Rollbühler, F. Banhart, S.M. Babu and P. Ramasamy:* Defect distribution and morphology development of SiGe layers grown on Si(100) substrates by LPE. *Thin Solid Films* **336**, 116-119 (1998).
- Serrano, J., A. Wyszomolek, T. Ruf, M. Cardona:* Spin-orbit splitting of acceptor states in Si and C. *Physica* **B273-274**, 640-643 (1999). [99.088]
- Shin, D.H., C.E. Becker, J.J. Harris, J.M. Fernandez, N.J. Woods, T.J. Thornton, D.K. Maude and J.C. Portal:* Variable-range hopping transport in modulation-doped n-channel Si/Si_{1-x}Ge_x quantum well structure. *Semiconductor Science and Technology* **14**, 762-767 (1999).
- Shiraishi, M., J.-U. Sachse, H. Lemke and J. Weber:* DLTS analysis of nickel-hydrogen complex defects in silicon. *Materials Science and Engineering* **B58**, 130-133 (1999).
- Siener, T., U. Müller, M. Jansen and U. Holzgrabe:* Formation of a 1,6-naphthyridine derivative by a double Mannich reaction. *Pharmazie* **53**, 442-445 (1998).
- Silvestrelli, P.L.:* Maximally localized Wannier functions for simulations with supercells of general symmetry. *Physical Review* **B59**, 9703-9706 (1999). [98.298]
- Silvestrelli, P.L., N. Marzari, D. Vanderbilt and M. Parrinello:* Maximally-localized Wannier functions for disordered systems: application to amorphous silicon. *Solid State Communications* **107**, 7-11 (1998). [98.095]

Silvestrelli, P.L. and M. Parrinello: Water molecule dipole in the gas and in the liquid phase. *Physical Review Letters* **82**, 3308-3311 (1999).

- Structural, electronic, and bonding properties of liquid water from first principles. *Journal of Chemical Physics* **111**, 3572-3580 (1999). [99.014]

Simon, A. siehe Ahn, K.; Cordier, S.; Felser, C.; Henn, R.W.; Istomin, S.Y.; Kremer, R.K.; Mattausch, H.; Oeckler, O.; Pöttgen, R.; Ramlau, R.; Smith, T.J.; Svensson, G.; Taylor, J.W.; Vajenine, G.V.

Sirenko, A.A., P. Etchegoin, A. Fainstein, K. Eberl and M. Cardona: Linear birefringence in GaAs/AlAs multiple quantum wells. *Physica Status Solidi* **b215**, 241-246 (1999).

– Birefringence in the transparency region of GaAs/AlAs multiple quantum wells. *Physical Review* **B60**, 8253-8261 (1999). [99.013]

Sirenko, A.A., M.K. Zundel, T. Ruf, K. Eberl and M. Cardona: Resonant Raman scattering in InP/In_{0.48}Ga_{0.52}P quantum dot structures embedded in a waveguide. *Physical Review* **B58**, 12633-12636 (1998). [98.154]

Smet, J.H.: Quanten-Hall-Effekt: Gebrochenezahlige Elementarladungen bestätigt. *Physikalische Blätter* **55**, 21-22 (1999).

Smet, J.H., S. Jobst, K. von Klitzing, D. Weiss, W. Wegscheider and V. Umansky: Commensurate composite fermions in weak periodic electrostatic potentials: direct evidence of a periodic effective magnetic field. *Physical Review Letters* **83**, 2620-2623 (1999).

Smet, J.H. siehe Albrecht, C.; Eroms, J.

Smith, T.J., K.H. Andersen, U. Beck, H. Capellmann, R.K. Kremer, K.-U. Neumann, O. Schärpf, A. Simon and K.R.A. Ziebeck: A polarized neutron scattering study of the normal phase in YBa₂Cu₃O_{6.95}. *Journal of Superconductivity* **12**, 95-97 (1999).

Somer, M., W. Carrillo-Cabrera, K. Peters and H.G. von Schnering: Crystal structure of tetrasodium octastrontium *catena*-[octaphosphido(3-)]-[diphosphido(4-)]tetraaluminate (III)[diphosphido(4-)], Na₄Sr₈[Al₄P₈(P₂)]₂[P₂]. *Zeitschrift für Kristallographie – New Crystal Structures* **213**, 683-684 (1998). [98.192]
- Crystal structure of tetrasodium octaeuropium(II) [octaphosphido(3-)]-bis[diphosphido(4-)]tetraaluminate(III), Na₄Eu₈[Al₄P₈(P₂)₂]. *Zeitschrift für Kristallographie – New Crystal Structures* **213**, 685-686 (1998). [98.193]
- Crystal structure of tetrasodium octaeuropium(II) pentaphosphido(3-)-diphosphido(4-)-digallate(III) *catena*-triphosphido(3-)-diphosphido(4-)-digallate(III), Na₄Eu₈[Ga₂P₅(P₂)]₂[Ga₂P₃(P₂)]. *Zeitschrift für Kristallographie – New Crystal Structures* **213**, 687-698 (1998). [98.194]

Somer, M., W. Carrillo-Cabrera, E.-M. Peters, K. Peters, M. Kaupp and H.G. von Schnering: The [Sn₅]²⁻ cluster compound [K-(2,2,2-*crypt*)]₂Sn₅ – synthesis, crystal structure, raman spectrum, and hierarchical relationship of CaIn₂. *Zeitschrift für Anorganische und Allgemeine Chemie* **625**, 37-42 (1999). [98.231]

Somer, M., W. Carrillo-Cabrera, E.-M. Peters, K. Peters and H.G. von Schnering: Tetrarubidium nonagermanide(4-) ethylenediamine, Rb₄[Ge₉][en]. *Zeitschrift für Anorganische und Allgemeine Chemie* **624**, 1915-1921 (1998). [98.169]

Spaeth, M., K.D. Kreuer, J. Maier and C. Cramer: Giant Haven ratio for proton transport in sodium hydroxide. *Journal of Solid State Chemistry* **148**, 169-177 (1999). [99.043]

Spangenberg, A. siehe Aichmayr, G.; Chandra, A.

Stapper, G., M. Bernasconi, N. Nicoloso and M. Parrinello: Ab initio study of structural and electronic properties of yttria-stabilized cubic zirconia. *Physical Review* **B59**, 797-810 (1999).

Steep, E., L.H. Nguyen, W. Biberacher, H. Müller, A.G.M. Jansen and P. Wyder: Forbidden orbits in the magnetic breakdown regime of κ -(BEDT-TTF)₂Cu(NCS)₂. *Physica* **B259-261**, 1079-1080 (1999).

Stepanov, A. siehe Barra, A.L.; Millet, P.; Wiegmann, H.

Stepnievski, R., M. Potemski, A. Wyszomolek, K. Pakula, J.M. Baranovski, J. Lusakovski, K.P. Korona, I. Grzegory, S. Porowski, G. Martinez and P. Wyder: Symmetry of excitons in GaN. *Physical Review* **B60**, 4438-4441 (1999).

Stevens, T.E., J. Hebling, J. Kuhl and R. Merlin: Coherent phonon dynamics studied by impulsive stimulated Raman scattering. *Physica Status Solidi* **B215**, 81-86 (1999).

Stevens, T.E. and J. Kuhl: Resonant generation of coherent phonons in Sb and GaSe. *Bulletin of the American Physical Society* **44**, 1062 (1999).

Stolovits, A., S. Sherman and R.K. Kremer: Kinetic parameters of thin alpha-tungsten films. *Annalen der Physik* **8**, 253-256 (1999).

Strohm, T., M. Cardona and A.A. Martin: Electronic Raman scattering in high-T_c superconductors. *AIP Conference Proceedings* **483**, 328-335 (1999). [99.05]

Strohm, T., D. Munzar and M. Cardona: Comment on "Screening of the B_{1g} Raman response in d-wave superconductors". *Physical Review* **B58**, 8839-8840 (1998). [98.060]

Stronach, C.E., D.R. Noakes, X. Wan, Ch. Niedermayer, C. Bernhard and E.J. Ansaldo: Zero-field muon-spin-rotation study of hole antiferromagnetism in low-carrier-density Y_{1-x}Ca_xBa₂Cu₃O₆. *Physica* **C311**, 19-22 (1999).

Svensson, G., J. Köhler and A. Simon: Discrete and condensed clusters in low valent niobium oxides. In: *Metal Clusters in Chemistry*, (Eds.) Braunstein et al. Wiley-VCH, Weinheim 1999, 1509-1550.

Syassen, K. siehe Adler, P.; Brillante, A.; Debernardi, A.; Hanfland, M.; Kremer, R.K.; Liu, Z.X.; Loa, I.; Schwarz, U.; Thomsen, C.; Ulrich, C.

Symons, D.M., M. Lakrimi, R.J. Nicholas, D.K. Maude, J.C. Portal, N.J. Mason and P.J. Walker: Magnetic breakdown in the semimetallic InAs/GaSb system. *Physical Review* **B58**, 7292-7299 (1998).

Symons, D.M., F.M. Peeters, M. Lakrimi, S. Khym, J.C. Portal, N.J. Mason, R.J. Nicholas and P.J. Walker: Theory of the band mixing induced negative magnetoresistance in broken gap superlattices. *Physica* **E2**, 353-357 (1998).

Szabo, P. siehe Samuely, P.

Tallon, J.L., J.W. Loram, G.V.M. Williams, J.R. Cooper, I.R. Fisher, J.D. Johnson, M.P. Staines and C. Bernhard: Critical doping in overdoped high-T_c superconductors: a quantum critical point. *Physica Status Solidi* **B215**, 531-540 (1999).

Taylor, J.W., T.J. Smith, K.H. Andersen, H. Capellmann, R.K. Kremer, A. Simon, O. Schärpf, K.-U. Neumann and K.R.A. Ziebeck: Spin-spin correlations in the insulating and metallic phases of the Mott system V₂O₃. *European Journal of Physics* **B12**, 199-207 (1999).

Tedoldi, R., R. Santachiara and M. Horvatic: ⁸⁹Y NMR imaging of the staggered magnetization in the doped haldane chain Y₂BaNi_{1-x}Mg_xO₅. *Physical Review Letters* **83**, 412-415 (1999).

Tellenbach, A. siehe Doering, U.

- Teran, F.J., M.L. Sadowski, M. Potemski, G. Karczewski, S. Mackowski and J. Jaroszynski:* Magneto-optics of a two-dimensional electron gas confined in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ quantum wells. *Physica* **B256-258**, 577-581 (1998).
- Teske, E., Y.P. Monarkha, M. Seck and P. Wyder:* Coulomb narrowing of the quantum cyclotron resonance in a nondegenerate two-dimensional electron liquid. *Physical Review Letters* **82**, 2772-2775 (1999).
- Teske, E., P. Wyder, P. Leiderer and V. Shikin:* Mapping of 2D contact perturbations by electrons on a helium film. *Low Temperature Physics* **24**, 119-120 (1998).
- Teske, E. siehe Monarkha, Y.P.
- Thomsen, C., S. Reich, A.R. Goñi, H. Jantoljak, P.M. Rafailov, I. Loa, K. Syassen, C. Journet and P. Bernier:* Intermolecular interaction in carbon nanotube ropes. *Physica Status Solidi* **B215**, 435-441 (1999).
- Thomsen, C., S. Reich, H. Jantoljak, I. Loa, K. Syassen, M. Burkhard, G.S. Duesberg and S. Roth:* Raman spectroscopy on single- and multi-walled nanotubes under high pressure. *Applied Physics* **A69**, 309-312 (1999).
- Tochtermann, W., T. Panitzsch, T. Habeck, C. Wolff, E.-M. Peters, K. Peters and H.G. von Schnering:* An approach to the tremulane skeleton: synthesis of (\pm)-6 α -*epi*-tremulenolide B and related hydroazulenes. *Tetrahedron* **55**, 1027-1042 (1999). [98.262]
- Tochtermann, W., T. Panitzsch, M. Petroll, T. Habeck, A. Schlenger, C. Wolff, E.-M. Peters, K. Peters and H.G. von Schnering:* Selective reactions, resolution and absolute configuration of bridged hydroazulenes. *European Journal of Organic Chemistry* **1998**, 2651-2657 (1998). [98.104]
- Torbet, J., Y.F. Nicolau and D. Djurado:* Orientation of CSA-protonated polyaniline chains in solution in m-cresol and in films induced by a high magnetic field. *Synthetic Metals* **101**, 825-826 (1999).
- Tracht, U., M. Wilhelm, A. Heuer, H. Feng, K. Schmidt-Rohr and H.W. Spiess:* Length scale of dynamic heterogeneities at the glass transition determined by multidimensional nuclear magnetic resonance. *Physical Review Letters* **81**, 2727-2730 (1998).
- Tress, O., Y.P. Monarkha, F.C. Penning, H. Bluysen and P. Wyder:* Observation of 2D polarons and magnetopolarons on superfluid helium films. Reply to comment. *Physical Review Letters* **82**, 2005 (1999).
- Trinschek, D. and M. Jansen:* A new and simple route to alkali metal oxometalates. *Angewandte Chemie International Edition in English* **38**, 133-135 (1999).
- Trout, B.L. and M. Parrinello:* Analysis of the dissociation of H_2O in water using first-principles molecular dynamics. *Journal of Physical Chemistry* **B103**, 7340-7345 (1999).
- Uchida, K., P.Y. Yu, J. Zeman, G. Martinez and K. Matsumoto:* Study of the photoluminescence upconversion from partially ordered GaInP/GaAs heterostructures under high magnetic field and high pressure. *Transactions of the Institute of Electronics, Information and Communication Engineers C-II* **J82**, 392-397 (1999).
- Uhrig, G.S., F. Schönfeld, J.P. Boucher and M. Horvatic:* Soliton lattices in the incommensurate spin-Peierls phase: local distortions and magnetizations. *Physical Review* **B60**, 9468-9476 (1999).
- Ulrich, C., A. Debernardi, E. Anastassakis, K. Syassen and M. Cardona:* Raman linewidths of phonons in Si, Ge, and SiC under pressure. *Physica Status Solidi* **B211**, 293-300 (1999).
- Ulrich, C., A. Göbel, K. Syassen and M. Cardona:* Pressure-induced disappearance of the Raman anomaly in CuCl. *Physical Review Letters* **82**, 351-354 (1999). [98.233]

Ulrich, C., A. Göbel, K. Syassen, M. Cardona, A. Cros and A. Cantarero: Raman scattering in CuCl under pressure. *Physica Status Solidi* **B211**, 287-292 (1999).

Ulrich, C., K. Syassen, M. Cardona, A. Cros and A. Cantarero: Lattice phonon modes of the high-pressure phase CuCl-IV. *Physical Review* **B60**, 9410-9415 (1999). [99.032]

Ulrich, C. siehe Debernardi, A.

Vagner, I.D. siehe Malits, P.; Zhuralev, V.

Vajenine, G.V. and A. Simon: Magic electron counts for networks of condensed octahedral niobium clusters in oxoniobates. *Inorganic Chemistry* **38**, 3463-3473 (1999). [98.302]

Vajenine, G.V., U. Steinbrenner and A. Simon: A new subnitride in the series $\text{Na}_n\text{Ba}_{14}\text{CaN}_6$ with $n = 8$. *Comptes Rendus de l'Académie des Sciences* **IIc**, 583-589 (1999).

Vajenine, G.V. siehe Mattausch, H.

Van den Brink, J., P. Horsch, F. Mack and A.M. Oles: Orbital dynamics in ferromagnetic transition-metal oxides. *Physical Review* **B59**, 6795-6805 (1999). [98.265]

- Orbitons in ferromagnetic insulating manganites. *Physica* **B259-261**, 807-809 (1999).

Van den Brink, J., G. Khaliullin and D. Khomskii: Charge and orbital order in half-doped manganites. *Physica Review Letters* **83**, 5118-5121 (1999).

Van den Brink, J. and D. Khomskii: Double exchange via degenerate orbitals. *Physical Review Letters* **82**, 1016-1019 (1999).

Van-Ouvnh, A., H. Mayaffre, P. Segransan, C. Berthier and P. Batail: ^1H NMR measurement of the magnetic field penetration depth λ_{ab} in the organic superconductor $\kappa\text{-(BEDT-TTF)}_2\text{Cu[N(CN)}_2\text{]Br}$. *Synthetic Metals* **103**, 1985-1986 (1999).

Vartanyants, I.A. and J. Zegenhagen: Quadrupole contribution to the angular resolved photoemission from an X-ray interference field. *Physica Status Solidi* **B215**, 819-826 (1999).

Vasilyev, Yu.B., K. von Klitzing and K. Eberl: Cyclotron resonance in asymmetric double quantum wells. *Physica* **E2**, 116-120 (1998).

Vasilyev, Yu., S. Suchalkin, K. von Klitzing, B. Meltser, S. Ivanov and P. Kopev: Evidence for electron-hole hybridization in cyclotron-resonance spectra of InAs/GaSb heterostructures. *Physical Review* **B60**, 10636-10639 (1999).

Vasilyev, Yu., S. Suchalkin, M. Zundel, D. Heisenberg, K. Eberl and K. von Klitzing: Properties of two-dimensional electron gas containing self-organized quantum antidots. *Applied Physics Letters* **75**, 2942-2944 (1999).

Vedenev, S.I., A.G.M. Jansen, E. Haanappel and P. Wyder: Temperature dependence of the upper critical field of $\text{Bi}_2\text{Sr}_2\text{CuO}_x$ single crystals. *Physical Review* **B60**, 12467-12474 (1999).

Vogt, H.: Orientational dynamics of Li dipoles in $\text{K}_{1-x}\text{Li}_x\text{TaO}_3$ studied by hyper-Rayleigh scattering. *Ferroelectrics* **223**, 135-142 (1999).

Vogt, H.: Permanent dipole moment and first-order hyperpolarizability of Li-induced polarization clusters in $K_{1-x}Li_xTaO_3$ determined by hyper-Raman spectroscopy. *Physical Review* **B58**, 9916-9925 (1998).
- Orientation dynamics of Li dipoles in $K_{1-x}Li_xTaO_3$ studied by hyper-Rayleigh scattering. *Ferroelectrics* **223**, 135-142 (1999). [98.229]

Waidmann, G. und M. Jansen: Synthese und Charakterisierung des Fulleren-Kokristallisats $C_{60}^*SiH(C_6H_5)_3$. *Zeitschrift für Naturforschung* **53b**, 161-164 (1998).

Weber, J.: Variation of band gap with temperature in *c*-Si. *EMIS Datareviews Series* **20**, 391-393 (1999).
- Hydrogen in silicon: evidence for transition-metal hydrogen complexes and hydrogen molecules. In: *Proceedings of the 24th International Conference on the Physics of Semiconductors*, (Ed.) D. Gershoni. World Scientific, Singapore 1998, 209-216.

Weber, J. and A.W.R. Leitch: Evidence for hydrogen molecules in crystalline silicon. *Proceedings - Electrochemical Society* **99-1**, 242-252 (1999).

Weber, J. siehe Feklisova, O.V.; Gladkov, P.; Knack, S.; Kurmaev, E.Z.; Leitch, A.W.R.; Meister, M.; Sachse, J.-U.; Shiraishi, M.; Yarikin, N.

Weckesser, J., J.V. Barth, C. Cai, B. Müller and K. Kern: Binding and ordering of large organic molecules on an anisotropic metal surface: PVBA on Pd(110). *Surface Science* **431**, 168-173 (1999).

Weckesser, J., J.V. Barth and K. Kern: Direct observation of surface diffusion of large organic molecules at metal surfaces: PVBA and Pd(110). *Journal of Chemical Physics* **110**, 5351-5354 (1999).

Wedig, U. siehe Binder, H.

Wei, Y.Y., J. Weis, K. von Klitzing and K. Eberl: Edge strips in the quantum Hall regime imaged by a single-electron transistor. *Physical Review Letters* **81**, 1674-1677 (1998). [98.152]

Weidenbruch, M., U. Grobecker, W. Saak, E.-M. Peters and K. Peters: Stepwise carbon disulfide insertion into the Sn-C bonds of a diarylstannylene. *Organometallics* **17**, 5206-5208 (1998). [98.121]

Weidenbruch, M., A. Grybat, W. Saak, E.-M. Peters and K. Peters: Reactions of a cyclotrisilane with chalcogen transfer reagents. *Monatshefte für Chemie* **130**, 157-162 (1999).

Weidenbruch, M., A. Stilter, W. Saak, K. Peters and H.G. von Schnering: An octahedral stannylmanganese stannylene complex. *Journal of Organometallic Chemistry* **560**, 125-129 (1998).

Weis, J.: Single-electron transistor as a local electrometer on top of a two-dimensional electron system in the quantum hall regime. *Advances in Solid State Physics* **39**, 183-192 (1999).

Weis, J., Y.Y. Wei and K. von Klitzing: Single-electron transistor probes two-dimensional electron system in the quantum Hall regime. *Microelectronic Engineering* **47**, 17-21 (1999).
- Single-electron transistor probes two-dimensional electron system in high magnetic fields. *Physica* **E3**, 23-29 (1998).

Weis, J. and O. Weis: Misinterpretation yields supervelocities during transmission of wave packets through a barrier. *European Physical Journal* **B12**, 135-146 (1999). [99.177]

Weis, J. siehe Kronmüller, S.; Liu, Z.H.; Philipp, G.; Wei, Y.Y.

- Weiss, H., M.V. Kartsovnik, W. Biberacher, E. Steep, E. Balthes, A.G.M. Jansen, K. Andres and N.D. Kushch: Magnetotransport studies of the Fermi surface in the organic superconductor κ -(BEDT-TTF)₂Cu[N(CN)₂]Br. *Physical Review* **B59**, 12370-12378 (1999).
- Weiss, H., M.V. Kartsovnik, W. Biberacher, E. Steep, E. Balthes, A.G.M. Jansen and N.D. Kushch: Magnetotransport studies of the Fermi surface in the organic superconductor κ -(BEDT-TTF)₂Cu[N(CN)₂]Br. *Synthetic Metals* **103**, 1998-1999 (1999).
- Werner, H., M. Steinmetz, K. Peters and H.G. von Schnering: A novel route to formaldehyde and thioformaldehyde rhodium complexes. *European Journal of Inorganic Chemistry* **1998**, 1605-1617 (1998).
- Wethkamp, T., K. Wilmers, C. Cobet, N. Esser, W. Richter, O. Ambacher, M. Stutzmann and M. Cardona: Dielectric function of hexagonal AlN films determined by spectroscopic ellipsometry in the vacuum-uv spectral range. *Physical Review* **B59**, 1845-1849 (1999). [98.100]
- Wevers, M.A.C., J.C. Schön and M. Jansen: Determination of structure candidates of simple crystalline AB₂ systems. *Journal of Solid State Chemistry* **136**, 233-246 (1998).
- Global aspects of the energy landscape of metastable crystal structures in ionic compounds. *Journal of Physics: Condensed Matter* **11**, 6487-6499 (1999). [99.099]
- Wicki, A., V. Marsico, K. Kuhnke, K. Kern, L. Paratte, S. Schweizer and P. Renaud: A micromechanical detector for molecular beams. *Review of Scientific Instruments* **70**, 3562-3565 (1999).
- Widulle, F., S. Kramp, N.M. Pyka, A. Göbel, T. Ruf, A. Debernardi, R. Lauck and M. Cardona: The phonon dispersion of wurtzite CdSe. *Physica* **B263-264**, 448-451 (1999). [98.130]
- Widulle, F., T. Ruf, O. Buresch, A. Debernardi and M. Cardona: Raman study of isotope effects and phonon eigenvectors in SiC. *Physical Review Letters* **82**, 3089-3092 (1999). [98.259]
- Raman study of isotope effects on the phonon dispersion in SiC. In: Proceedings of the 24th International Conference on the Physics of Semiconductors, (Ed.) D. Gershoni. World Scientific, Singapore 1998, CD-ROM. [98.201]
- Widulle, F., T. Ruf, A. Göbel, E. Schönherr and M. Cardona: Raman study of the anomalous TO phonon structure in GaP with controlled isotopic composition. *Physical Review Letters* **82**, 5281-5284 (1999). [99.010]
- Widulle, F., T. Ruf, A. Göbel, I. Silier, E. Schönherr, M. Cardona, J. Camacho, A. Cantarero, W. Kriegseis and V.I. Ozhogin: Raman studies of isotope effects in Si and GaAs. *Physica* **B263-264**, 381-383 (1999). [98.125]
- Widulle, F., T. Ruf, E. Schönherr and M. Cardona: Investigation of the anomalous Raman line shape of the TO phonon in GaP. *Physica Status Solidi* **B215**, 131-136 (1999).
- Wiegelmann, H., I.M. Vitebsky, A. Stepanov, A.G.M. Jansen and P. Wyder: Magnetoelectric phenomena in R₂CuO₄ rare-earth cuprates. *Key Engineering Materials*, 429-445 (1999).
- Wilmer, D., R.D. Banhatti, J. Fitter, K. Funke, M. Jansen, G. Korus and R.E. Lechner: Anion reorientation in Na₃PO₄. *Physica* **B241-243**, 338-340 (1998). [98.292]
- Wilmer, D., K. Funke, M. Witschas, R.D. Banhatti, M. Jansen, G. Korus, J. Fitter and R.E. Lechner: Anion reorientation in an ion conducting plastic crystal-coherent quasielastic neutron scattering from sodium orthophosphate. *Physica* **B266**, 60-68 (1999). [99.033]
- Wilmers, K., T. Wethkamp, N. Esser, C. Cobet, W. Richter, M. Cardona, V. Wagner, H. Lugauer, F. Fischer, T. Gerhard and M. Keim: Ellipsometric studies of Be_xZn_{1-x}Se between 3 eV and 25 eV. *Physical Review* **B59**, 10071-10075 (1999). [98.226]

Wilmers, K., T. Wethkamp, N. Esser, C. Cobet, W. Richter, V. Wagner, A. Waag, H. Lugauer, F. Fischer, T. Gerhard, M. Keim and M. Cardona: VUV ellipsometry on beryllium chalcogenides. *Physica Status Solidi* **B215**, 15-20 (1999). [98.225]

Witowski, A.M., K. Pakula, J.M. Baranowski, M.L. Sadowski and P. Wyder: Electron effective mass in hexagonal GaN. *Applied Physics Letters* **75**, 1-3 (1999).

Witowski, A.M., M.L. Sadowski, K. Pakula and P. Wyder: Far infrared spectroscopy of shallow donors in bulk GaN. In: Proceedings of the 24th International Conference on the Physics in Semiconductors, (Ed.) D. Gershoni. World Scientific, Singapore 1998, 1662-1666.

- Far infrared magnetospectroscopy of shallow donors in GaN. *Physica Status Solidi* **B210**, 385-388 (1998).

Witowski, A.M., M.L. Sadowski, K. Pakula, B. Suchanek, R. Stepniewski, J. Baranowski, M. Potemski, G. Martinez and P. Wyder: Magneto-optical studies of shallow donors in MOCVD grown GaN layers in FIR. *MRS Internet Journal of Nitride Semiconductor Research* **3**, 24-28 (1998).

Witowski, A.M. siehe Sadowski, M. L.; Sadowski, M.L.

Wyder, P. siehe Balthes, E.; Böhm, A.; Dorfman, S.; Finkeisen, E.; Gnatchenko, S.L.; Gordon, A.; Kambe, S.; Kornev, I.; Kvitnitskaya, O.E.; Moll, H.P.; Monarkha, Y.P.; Naidyuk, Yu.G.; Rybaltchenko, L.F.; Steep, E.; Stepniewski, R.; Teske, E.; Tress, O.; Vedeneev, S.I.; Wiegelmann, H.; Witowski, A.M.; Wysmolek, A.; Zhuralev, V.

Wysmolek, A., M. Potemski, R. Stepniewski, J. Lusakowski, K. Pakula, M. Baranowski, G. Martinez, P. Wyder, I. Grzegory and S. Porowsky: Polarised magnetoluminescence of excitons in homoepitaxial GaN layers. *Physica Status Solidi* **B216**, 11-15 (1999).

Wysmolek, A. siehe Serrano, J.; Stepniewski, R.

Yarikin, N., J.-U. Sachse, H. Lemke and J. Weber: Silver-hydrogen interactions in crystalline silicon. *Physical Review* **B59**, 5551-5560 (1999).

Yun, S.K. and J. Maier: Layered and hexagonal aluminosilicate-hexadecylamine mesostructures: solid state transformation and ionic conductivity. *Inorganic Chemistry* **38**, 545-549 (1999). [98.038]

- Synthesis and ionic conductivity of supramolecular layered silicate hybrids of phosphotungstates and poly(ethylene glycol) dicarboxylates. *Chemistry of Materials* **11**, 1644-1647 (1999).

Zeman, J., F. Engelbrecht, G. Wellenhofer, C. Peppermüller, R. Helbig, G. Martinez and U. Rossler: Pressure dependence of the band gap of 4H-SiC. *Physica Status Solidi* **B211**, 69-72 (1999).

Zeman, J., G. Martinez, P.H.M. van Loosdrecht and A. Revcolevschi: Scaling of the H-T phase diagram of CuGeO₃. *Physical Review Letters* **83**, 2648-2651 (1999).

Zeman, J., G. Martinez, P.Y. Yu, S.H. Kwok and K. Uchida: GaAs/(ordered)GaInP₂ heterostructures under pressure and high magnetic fields. *Physica Status Solidi* **B211**, 239-246 (1999).

Zeman, J., S. Jullian, G. Martinez, P.Y. Yu and K. Uchida: Nanometer size determination of type-II domains in CuPt-ordered GaInP₂ with high-pressure magneto-luminescence. *Europhysics Letters* **47**, 260-266 (1999).

Zeyher, R.: Comment on "Additional Boundary Conditions: An Historical Mistake". *Physical Review Letters* **83**, 1264 (1999). [98.127]

Zeyher, R. and A. Greco: Theory of the isotope effect in high-T_c cuprates. *Physica Status Solidi* **B215**, 597-600 (1999). [99.080]

Zeyher, R. siehe Benedetti, P.; Cappelluti, E.; Greco, A.

Zheng, Y.-Q., H. Borrmann, Yu. Grin, K. Peters and H.G. von Schnering: The cluster compounds $\text{Ag}[\text{W}_6\text{Br}_{14}]$ and $\text{Ag}_2[\text{W}_6\text{Br}_{14}]$. Zeitschrift für Anorganische Allgemeine Chemie **625**, 2115-2119 (1999). [99.082]

Zheng, Y.-Q., J. Nuss and H.G. von Schnering: Crystal structure of dicopper(I) octa- μ_3 -chlorohexachloro-octahedro- hexatungstate(2-), $\text{Cu}_2[(\text{W}_6\text{Cl}_8)\text{Cl}_6]$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 680 (1998). [98.190]

Zheng, Y.-Q., K. Peters and H.G. von Schnering: Crystal structure of tungsten pentabromide, WBr_5 . Zeitschrift für Kristallographie - New Crystal Structures **213**, 471 (1998). [98.021]

- Crystal structure of dithallium(I) octa- μ_3 -bromohexabromo-*octahedro*- hexatungstate(2-), $\text{Tl}_2[(\text{W}_6\text{Br}_8^i)\text{Br}_6^a]$. Zeitschrift für Kristallographie - New Crystal Structures **213**, 681-682 (1998). [98.191]

Zhukovskii, Yu.F., E.A. Kotomin, P.W.M. Jacobs, A.M. Stoneham and J.H. Harding: Modelling of silver adhesion on $\text{MgO}(100)$ surface with defects. Journal of Physics **12**, 55-66 (1999). [99.158]

Zhuravlev, V. and T. Maniv: Simple analytical model of vortex-lattice melting in two-dimensional superconductors. Physical Review **B60**, 4277-4284 (1999).

Zhuravlev, V., T. Maniv, I.D. Vagner and P. Wyder: Letter to the editor: a unified mean field approach to the dHvA effect in the vortex state near the upper critical field. Journal of Physics: Condensed Matter **11**, 393-399 (1999).

Zimmermann, M. von, J.P. Hill, D. Gibbs, M. Blume, D. Casa, B. Keimer, Y. Murakami, Y. Tomioka and Y. Tokura: Interplay between charge, orbital and magnetic order in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$. Physical Review Letters **83**, 4872-4877 (1999). [99.075]

Zoche, N. und M. Jansen: Einkristallstrukturbestimmungen an KbBiO_2 und RbBiO_2 und ein kristallchemischer Vergleich der Alkalimetallbismutate(III) vom Typ MbiO_2 ($\text{M} = \text{Na}, \text{K}, \text{Rb}, \text{Cs}$). Zeitschrift für Anorganische und Allgemeine Chemie **624**, 205-208 (1998).

Zundel, M.K., K. Eberl, N.Y. Jin-Phillipp, F. Phillipp, T. Riedl, E. Fehrenbacher and A. Hangleiter: Self-assembled InP quantum dots for red LEDs on Si and injection lasers on GaAs. Journal of Crystal Growth **201-202**, 1121-1125 (1999).

Zundel, M.K., N.Y. Jin-Phillipp, F. Phillipp, K. Eberl, T. Riedl, E. Fehrenbacher and A. Hangleiter: Red-light-emitting injection laser based on InP/GaInP self-assembled quantum dots. Applied Physics Letters **73**, 1784-1786 (1998). [98.018]

Zwerschke, S.D.M. and R.R. Gerhardt: Positive magnetoresistance of composite fermion systems with a weak one-dimensional density modulation. Physical Review Letters **83**, 2616-2619 (1999). [99.110]

Zwerschke, S.D.M., A. Manolescu and R.R. Gerhardt: Planar cyclotron motion in unidirectional superlattices defined by strong magnetic and electric fields: Traces of classical orbits in the energy spectrum. Physical Review **B60**, 5536-5548 (1999). [98.306]