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Adam, W., A. Pastor, K. Peters and E.M. Peters: Opposite π -face selectivity for the DMD and m-CPBA epoxidations of chiral 2,2-dimethyloxazolidine derivatives of tiglic amides: Control by steric interactions versus hydrogen bonding. *Organic Letters* **2**, 1019-1022 (2000).

Adam, W., K. Peters, E.M. Peters and S.B. Schambony: Diastereoselective and regioselective singlet-oxygen ene reaction of oxazolidine-substituted alkenes: Control through hydrogen bonding mediated by the urea functionality of chiral auxiliaries. *Journal of the American Chemical Society* **122**, 7610-7611 (2000).

Adler, P. and S. Eriksson: Structural properties, Mössbauer spectra, and magnetism of perovskite-type oxides $\text{SrFe}_{1-x}\text{Ti}_x\text{O}_{3-y}$. *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 118-124 (2000).

Adler, P., U. Schwarz, K. Syassen, A.P. Milner, M.P. Pasternak and M. Hanfland: Structural Phase Transitions in $\text{Sr}_2\text{Fe}_2\text{O}_5$ under High Pressure. *Journal of Solid State Chemistry* **155**, 381-388 (2000).

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).

Adler, P. siehe Ghosh, S.

Ahlswede, E. siehe Weitz, P.

Ahn, K., C. Felser, R. Seshadri, R.K. Kremer and A. Simon: Giant negative magnetoresistance in GdI_2 . *Journal of Alloys and Compounds* **303**, 252-256 (2000).

Ahn, K., R.K. Kremer, Hj. Mattausch and A. Simon: Superconductivity in layered lanthanum carbide halides: $\text{La}_2\text{C}_2(\text{X}, \text{X}')_2$ ($\text{X}, \text{X}' = \text{Cl}, \text{Br}, \text{I}$). *Journal of Alloys and Compounds* **303-304**, 257-261 (2000).

Ahn, K. siehe Felser, C.; Henn, R.W.; Kremer, R.K.; Lee, S.H.; Stolovits, A.

Akimov, M.Y., I.V. Kukushkin, S.I. Gubarev, S.V. Tovstonog, J.H. Smet, K. von Klitzing and W. Wegscheider: Dimensional magnetoplasma resonance of 2D holes in (001) GaAs/AlGaAs quantum wells. *JETP Letters* **72**, 460-463 (2000).

Albert, B. and M. Jansen: The existence of tetramethylammonium amalgam. *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 1892-1896 (2000).

Albrecht, C., J.H. Smet, K. von Klitzing, D. Weiss, V. Umansky and H. Schweizer: Evidence of Hofstadter's fractal energy spectrum in the quantized Hall conductance. *Physical Review Letters* **86**, 147-150 (2000).

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, J., R. Warthmann, S. Leonhardt and H. Kronmüller: Current densities in low-angle grain boundaries of YBCO. *Physica* **C341**, 1459-1460 (2000).

Albrecht, C. siehe Langenbuch, M.

Alex, V. and J. Weber: Evidence for deep recombination centers in high-purity silicon from photoluminescence measurements at elevated temperatures. *Physica* **B273-274**, 375-378 (1999).

Allen, J.W., G.H. Gweon, H.T. Schek, L.Z. Liu, L.H. Tjeng, J.H. Park, W.P. Ellis, C.T. Chen, O. Gunnarsson, O. Jepsen, O.K. Andersen, Y. Dalichaouch and M.B. Maple: Kondo resonance behavior of heavy fermion f-electron materials. *Journal of Applied Physics* **87**, 6088-6091 (2000).

- Ammerlahn, D., B. Grote, S.W. Koch, J. Kuhl, M. Hubner, R. Hey and K. Ploog: Influence of the dielectric environment on the radiative lifetime of quantum-well excitons. *Physical Review* **B61**, 4801-4805 (2000).
- Ammerlahn, D., J. Kuhl, B. Grote, S.W. Koch, G. Khitrova and H. Gibbs: Collective radiative decay of light- and heavy-hole exciton polaritons in multiple-quantum-well structures. *Physical Review* **B62**, 7350-7356 (2000).
- Ammerlahn, D., J. Kuhl, B. Grote, S.W. Koch, G. Khitrova, H. Gibbs, R. Hey and K.H. Ploog: Radiative coupling in single quantum wells and Bragg structures. *Physica Status Solidi* **B221**, 101-106 (2000).
- Andersen, O.K. and T. Saha-Dasgupta: Muffin-tin orbitals of arbitrary order. *Physical Review* **B62**, R16219-R16225 (2000).
- Andersen, O.K., T. Saha-Dasgupta, R.W. Tank, C. Arcangeli, O. Jepsen and G. Krier: Developing the MTO formalism. *Lecture Notes in Physics* **535**, 3-84 (2000).
- Andersen, O.K. siehe Allen, J.W.; Benoist, R.; Oudovenko, V.S.
- Aubert, G., C. Berthier, F. Debray, M. Horvatic, W. Joss, G. Martinez, E. Mossang, J.C. Picoche, A. Bonito-Oliva, M. Wilson, S. Kramer and M. Mehring: The Grenoble Giga-NMR project. *IEEE Transactions on Applied Superconductivity* **10**, 732-735 (2000).
- Aubert, G., F. Debray, W. Joss, H. Jongbloets and M. Ohl: The 20 MW – 50 mm bore diameter magnet of the Grenoble High Magnetic Field Laboratory. *IEEE Transactions on Applied Superconductivity* **10**, 455-457 (2000).
- Awana, V.P.S., S.K. Malik, W.B. Yelon, C.A. Cardoso, O.F. deLima, A. Gupta, A. Sedky and A.V. Narlikar: Neutron diffraction on $\text{Er}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_{8-\delta}$ ($0.0 \leq x \leq 0.3$) system: possible oxygen vacancies in Cu-O₂ planes. *Physica* **C338**, 197-204 (2000).
- Awana, V.P.S., E. Schmitt, E. Gmelin, A. Gupta, A. Sedky, A.V. Narlikar, O.F. deLima, C.A. Cardoso, S.K. Malik and W.B. Yelon: Effect of Zn substitution on para- to ferromagnetic transition temperature in $\text{La}_{0.67}\text{Ca}_{0.33}\text{Mn}_{1-x}\text{Zn}_x\text{O}_3$ colossal magnetoresistance materials. *Journal of Applied Physics* **87**, 5034-5036 (2000).
- Baitinger, M., Y. Grin, R. Kniep and H.G. von Schnering: Crystal structure of tetra-rubidium *tetrahedro*-tetrastannide, Rb_4Sn_4 and of tetra-caesium *tetrahedro*-tetrastannide, Cs_4Sn_4 . *Zeitschrift für Kristallographie – New Crystal Structures* **214**, 457-458 (1999).
- Baitinger, M., K. Peters, M. Somer, W. Carrillo-Cabrera, Y. Grin, R. Kniep and H.G. von Schnering: Crystal structure of tetra-rubidium *tetrahedro*-tetraplumbide, Rb_4Pb_4 and of tetra-caesium *tetrahedro*-tetraplumbide, Cs_4Pb_4 . *Zeitschrift für Kristallographie – New Crystal Structures* **214**, 455-456 (1999).
- Bala, J., A.M. Oles and J. Zaanen: Origin of band and localized electron states in photoemission of NiO. *Physical Review* **B61**, 13573-13587 (2000).
- Balthes, E., M. Schiller, D. Schweitzer, I. Heinen, W. Strunz, E. Steep, A.G.M. Jansen and P. Wyder: 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).
- Barbara, B., I. Chiorescu, R. Giraud, A.G.M. Jansen and A. Caneschi: Tunneling of mesoscopic spins in molecular crystals. *Journal of the Physical Society of Japan* **69**, 383-394 (2000).
- Barentzen, H. and V. Oudovenko: A self-consistent analytic theory of the spin bipolaron in the t-J model. *International Journal of Modern Physics*. **B14**, 809-835 (2000).
- 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., D. Gatteschi and R. Sessoli: High-frequency EPR spectra of $[\text{Fe}_8\text{O}_2(\text{OH})_{12}(\text{tacn})_6]\text{Br}_8$: A critical appraisal of the barrier for the reorientation of the magnetization in single-molecule magnets. *Chemistry: A European Journal* **6**, 1608-1614 (2000).

Barth, J.V., J. Weckesser, C.Z. Cai, P. Gunter, L. Burgi, O. Jeandupeux and K. Kern: Building supramolecular nanostructures at surfaces by hydrogen bonding. *Angewandte Chemie, International Edition in English* **39**, 1230-1234 (2000).

Barth, J.V. siehe Haas, G.

Baturina, T.I., Z.D. Kvon, R.A. Donaton, M.R. Baklanov, E.B. Olshanetsky, K. Maex, A.E. Plotnikov and J.C. Portal: Mesoscopic SNS junctions on the basis of superconducting PtSi films. *Physica* **B284**, 1860-1861 (2000).

Becker, M. and M. Jansen:

- Synthesis and characterisation of mercury cyanamide. *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 1639-1641 (2000).
- Synthesis of potassium cyanamide, and crystal structure determination by pareto optimisation of the cost functions 'lattice energy' and 'powder intensities'. *Solid State Sciences* **2**, 711-715 (2000).

Becker, M., J. Nuss and M. Jansen:

- Crystal structure and spectroscopic data of silver cyanamide. *Zeitschrift für Naturforschung* **B55**, 383-385 (2000).
- Synthesis and characterization of sodium cyanamide. *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 2505-2508 (2000).

Becker, M. siehe Jansen, M.

Bednarski, H., J. Cisowski, W. Heimbrod and J.C. Portal: Randomness of the magnetic ion distribution in dilute magnetic semiconductor epilayers grown by molecular beam epitaxy. *Solid State Communications* **113**, 419-422 (2000).

Beierlein, U., J. Dumas, C. Schlenker, D. Groult, P. Labbe, E. Balthes, E. Steep and G. Bonfait: Transport properties and CDW instabilities of the quasi-two-dimensional monophosphate tungsten bronzes $(\text{PO}_2)_4(\text{WO}_3)_{2m}$ ($m=5$). *Journal de Physique IV* **9**, 375-377 (1999).

Beierlein, U., C. Hess, C. Schlenker, J. Dumas, R. Buder, D. Groult, E. Steep, D. Vignolles and G. Bonfait: Charge-density-wave instabilities and quantum transport in the monophosphate tungsten bronzes $(\text{PO}_2)_4(\text{WO}_3)_{2m}$ with $m=5$ alternate structure. *European Physical Journal* **B17**, 215-226 (2000).

Benoist, R., P. Carra and O.K. Andersen: Band structure and atomic sum rules for X-ray dichroism. *European Physical Journal* **B18**, 193-196 (2000).

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., C.J. Mundy, A.H. Romero, J. Hutter and M. Parrinello: General and efficient algorithms for obtaining maximally localized Wannier functions. *Physical Review* **B61**, 10040-10048 (2000).

Bernhard, C., T. Holden, A. Golnik, C.T. Lin and M. Cardona: Far-infrared c-axis conductivity of flux-grown $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_7$ single crystals studied by spectral ellipsometry. *Physical Review* **B62**, 9138-9142 (2000).

Bernhard, C., D. Munzar, A. Golnik, C.T. Lin, A. Wittlin, J. Humlicek and M. Cardona: Anomaly of oxygen bond-bending mode at 320 cm^{-1} and additional absorption peak in the c-axis infrared conductivity of underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals revisited with ellipsometric measurements. *Physical Review* **B61**, 618-626 (2000).

Bernhard, C., D. Munzar, M. Klaeser, Th. Wolf, C.T. Lin and M. Cardona: 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., J.L. Tallon, E. Brücher and R.K. Kremer: Evidence for a bulk Meissner state in the ferromagnetic superconductor $RuSr_2GdCu_2O_8$ from dc magnetization. *Physical Review* **B61**, R14960-R14963 (2000).

Bernhard, C. siehe Blasius, T.; Henn, R.W.; Lynn, J.W.; Munzar, D.; Sirenko, A.A.; Tallon, J.L.

Berthier, C., M. Horvatic, Y. Fagot-Revurat, M.H. Julien, G. Chaboussant, H. Mayaffre, L.P. Levy and P. Segransan: High magnetic field NMR studies of quantum spin chains and ladders. *Journal of the Physical Society of Japan* **69**, 54-58 (2000).

Bertram, F., M. Lipinski, T. Riemann, D. Rudloff, J. Christen, P. Veit, R. Clos and K. Eberl: Optical and structural characterization of a self-aligned single electron transistor structure by cathodoluminescence microscopy. *Physica* **E7**, 363-366 (2000).

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 iron-doped heterofullerenes. *Computational Materials Science* **17**, 191-195 (2000).

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).

Billas, I.M.L., F. Tast, W. Branz, N. Malinowski, M. Heinebrodt, T.P. Martin, M. Boero, C. Massobrio and M. Parrinello: Experimental and computational studies of Si-doped fullerenes. *European Physical Journal* **D9**, 337-340 (1999).

Binder, H., R. Kellner, K. Vaas, M. Hein, F. Baumann, M. Wanner, W. Kaim, U. Wedig, W. Hönle, H.G. von Schnering, O. Groeger and G. Engelhardt: HB_9X_9 and $H_2B_9X_9$ ($X = Cl, Br, I$): Neutral closo-nonaboranes in the novel series B_nH_{n+1} , and B_nH_{n+2} – Syntheses, ab initio calculations, and electronic structures. *Zeitschrift für Anorganische und Allgemeine Chemie* **625**, 1638-1646 (1999).

Bittner, A.M. siehe Wu, X.C.

Blasius, T., C. Niedermayer, D.M. Pooke, D.R. Noakes, C.E. Stronach, E.J. Ansaldo, A. Golnik and C. Bernhard: Low-temperature vortex structures of the mixed state in underdoped $Bi_2Sr_2CaCu_2O_{8+\delta}$. *Physica* **B289**, 365-368 (2000).

Blick, R.H.: Microwave spectroscopy on quantum dots. In: *Handbook of Nanostructured Materials and Nanotechnology*, Volume 2, (Ed.) H.S. Nalwa. Academic Press, San Diego 2000, 309-343.

Bluher, R., W. Frank and B. Grushko: Diffusion of ^{103}Pd and ^{195}Au in icosahedral $Al_{70.2}Pd_{21.3}Mn_{8.5}$ under proton irradiation. *Materials Science & Engineering* **A294**, 689-692 (2000).

Boero, M., K. Terakura, T. Ikeshoji, C.C. Liew and M. Parrinello:

- Car-Parrinello simulation of water at supercritical conditions. *Progress of Theoretical Physics*, Supplement **138**, 259-261 (2000).
- Hydrogen bonding and dipole moment of water at supercritical conditions: A first-principles molecular dynamics study. *Physical Review Letters* **85**, 3245-3248 (2000).

Boero, M., M. Parrinello, S. Huffer and H. Weiss: First principles study of propene polymerization in Ziegler-Natta heterogeneous catalysis. *Journal of the American Chemical Society* **122**, 501-509 (2000).

Bollmann, J., S. Lindner, M.O. Henry, E. McGlynn and S. Knack: Deep level anomalies in silicon doped with radioactive Au atoms. *Physica* **B274**, 433-436 (1999).

Borrmann, H., I. Persson, M. Sandstrom and C.M.V. Stalhandske: The crystal and liquid structures of N,N-dimethylthioformamide and N,N-dimethylformamide showing a stronger hydrogen bonding effect for C-H...S than for C-H...O. *Journal of the Chemical Society, Perkin Transactions 2*, 393-402 (2000).

Bourges, P., B. Keimer, L.P. Regnault and Y. Sidis: A critical examination of the spin dynamics in high-T_c cuprates. *Journal of Superconductivity* **13**, 735-740 (2000).

Bourges, P., Y. Sidis, H.F. Fong, L.P. Regnault, J. Bossy, A. Ivanov and B. Keimer: The spin excitation spectrum in superconducting YBa₂Cu₃O_{6.85}. *Science* **288**, 1234-1237 (2000).

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., 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).

Brandt, E.H.: Superconductors in realistic geometries: geometric edge barrier versus pinning. *Physica C* **332**, 99-107 (2000).

Branz, W., N. Malinowski, H. Schaber and T.P. Martin: Thermally induced structural transition in (C₆₀)_n clusters. *Chemical Physics Letters* **328**, 245-250 (2000).

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*, 2093-2101 (1999).

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).

Braun, N.A., M. Ousmer, J.D. Bray, D. Bouchu, K. Peters, E.M. Peters and M.A. Ciufolini: New oxidative transformations of phenolic and indolic oxazolines: An avenue to useful azaspirocyclic building blocks. *Journal of Organic Chemistry* **65**, 4397-4408 (2000).

Brichzin, V., J. Fleig, H.-U. Habermeier and J. Maier: Geometry dependence of cathode polarization in solid oxide fuel cells investigated by defined Sr-doped LaMnO₃ microelectrodes. *Electrochemical and Solid State Letters* **3**, 403-406 (2000).

Bringmann, G., M. Breuning, S. Tasler, H. Endress, C.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. *Chemistry: A European Journal* **5**, 3029-3038 (1999).

Bringmann, G., M. Breuning, R. Walter, A. Wuzik, K. Peters and E.M. Peters: Novel concepts in directed biaryl synthesis, 80 – Synthesis of axially chiral biaryls by atropo-diastereoselective cleavage of configurationally unstable biaryl lactones with menthol-derived O-nucleophiles. *European Journal of Organic Chemistry*, 3047-3055 (1999).

Bringmann, G., D. Feineis, R. Bruckner, M. Blank, K. Peters, E.M. Peters, H. Reichmann, B. Janetzky, C. Grote, H.W. Clement and W. Wesemann: Bromal-derived tetrahydro-β-carbolines as neurotoxic agents: Chemistry, impairment of the dopamine metabolism, and inhibitory effects on mitochondrial respiration. *Bioorganic Chemistry* **8**, 1467-1478 (2000).

Bringmann, G., D. Feineis, R. Bruckner, E.M. Peters and K. Peters: 2-hexanoyl-1-tribromomethyl-1,2,3,4-tetrahydro-β-carboline: Crystal structure analysis of a potent inhibitor of complex I of mitochondrial respiration. *Zeitschrift für Naturforschung* **B55**, 94-99 (2000).

Bringmann, G., D. Feineis, R. God, R. Bruckner, J.A. Protzen, M. Blank, K. Peters, E.M. Peters, B. Janetzky and H. Reichmann: Chemical modification of the mitochondrial complex I inhibitor 1-trichloromethyl-1,2,3,4-tetrahydro- β -carboline: Synthesis and evaluation of N-alkanoyl derivatives. *Zeitschrift für Naturforschung* **C55**, 620-630 (2000).

Bringmann, G., D. Feineis, W. Saeb, C. Hesselmann, E.M. Peters and K. Peters: Endogenous alkaloids in man, Part 33. Dimethyl (2*S*,4*S*)- and (2*R*,4*S*)-5,5-dimethyl-1,3-thiazolidine-2,4-dicarboxylates, two diastereomeric glyoxylate-derived heterocycles. *Zeitschrift für Naturforschung* **B55**, 208-212 (2000).

Bringmann, G., J. Hinrichs, P. Henschel, K. Peters and E.M. Peters: Synthesis of constitutionally unsymmetric 7-membered biaryl lactones by Ni-mediated intramolecular coupling. *Synlett*, 1822-1824 (2000).

Bringmann, G., M. Ochse, G. Zotz, K. Peters, E.M. Peters, R. Brun and J. Schlauer: 6-hydroxyluteolin-7-O-(1''- α -rhamnoside) from *Vriesea sanguinolenta* Cogn. and Marchal (Bromeliaceae). *Phytochemistry* **53**, 965-969 (2000).

Bringmann, G., T. Ortmann, D. Feineis, E.M. Peters and K. Peters: A new central binaphthalene building block for michellamine syntheses. *Synthesis*, 383-388 (2000).

Bringmann, G., T. Pabst, P. Henschel, J. Kraus, K. Peters, E.M. Peters and D.S. Rycroft: Nondynamic and dynamic kinetic resolution of lactones with stereogenic centers and axes: Stereoselective total synthesis of herbertenediol and mastigophorenes A and B. *Journal of the American Chemical Society* **122**, 9127-9133 (2000).

Bringmann, G., A. Wuzik, M. Breuning, P. Henschel, K. Peters and E.M. Peters: Atropo-enantioselective synthesis of an axially chiral C₁-symmetric phosphine ligand and its application in the asymmetric hydro-silylation of styrenes. *Tetrahedron: Asymmetry* **10**, 3025-3031 (1999).

Bromann, K., M. Giovannini, H. Brune and K. Kern: Self-organized growth of cluster arrays. *European Physical Journal* **D9**, 25-28 (1999).

Brosig, S., K. Ensslin, A.G. Jansen, C. Nguyen, B. Brar, M. Thomas and H. Kroemer: InAs-AlSb quantum wells in tilted magnetic fields. *Physical Review* **B61**, 13045-13049 (2000).

Brown, D.W., A.H. Romero and K. Lindenberg: Franck-Condon factors as spectral probes of polaron structure. *Journal of Physical Chemistry* **A103**, 10417-10425 (1999).

Brüge, F., M. Bernasconi and M. Parrinello: Ab initio simulation of rotational dynamics of solvated ammonium ion in water. *Journal of the American Chemical Society* **121**, 10883-10888 (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).

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. siehe Choi, K.H.; Duesberg, G.S.; Holzinger, M.; Itoh, E.; Kim, G.T.; Krstic, V.; Liu, K.; Mews, A.; Muster, J.; Philipp, G.

Bürgi, L., H. Brune, O. Jeandupeux and K. Kern: Quantum coherence and lifetimes of surface-state electrons. *Journal of Electron Spectroscopy and Related Phenomena* **109**, 33-49 (2000).

Bürgi, L., L. Petersen, H. Brune and K. Kern: Noble metal surface states: deviations from parabolic dispersion. *Surface Science* **447**, L157-L161 (2000).

Bussmann-Holder, A.: Competing and cooperative effects of spin, charge, and phonon degrees of freedom in HTSC. *Journal of superconductivity* **13**, 773-777 (2000).

Bussmann-Holder, A., H. Büttner and A.R. Bishop: Stabilization of ferroelectricity in quantum paraelectrics by isotopic substitution. *Journal of Physics: Condensed Matter* **12**, L115-L120 (2000).

Bussmann-Holder, A. and N. Dalal: Polarizability induced cooperative proton ordering, coexistence of order/disorder and displacive dynamics and isotope effect in hydrogen-bonded ferroelectrics. *Ferroelectrics* **237**, 305-312 (2000).

Bussmann-Holder, A., N. Dalal and K.H. Michel: Polarizability induced cooperative proton ordering, coexistence of order/disorder and displacive dynamics and isotope effects in hydrogen-bonded systems. *Physics and Chemistry of Solids* **61**, 271-274 (2000).

Bussmann-Holder, A., A. Simon, H. Büttner and A.R. Bishop:

- Lattice and polarizability effects on singlet and triplet states in an effective hamiltonian for high- T_c cuprates. *Journal of Superconductivity* **13**, 491-496 (2000).
- Phonon induced stripe formation and charge ordering in high- T_c superconductors. *Philosophical Magazine* **B11**, 1955-1960 (2000).

Bykov, A.A., D.G. Baksheev, L.V. Litvin, V.P. Migal, E.B. Olshanetskii, M. Casse, D.K. Maude and J.C. Portal: Transport properties of a GaAs/AlGaAs ring interferometer in the tunneling regime. *JETP Letters* **71**, 434-437 (2000).

Bykov, A.A., G.M. Gusev, J.R. Leite, A.K. Bakarov, N.T. Moshegov, M. Casse, D.K. Maude and J.C. Portal: Hall effect in a spatially fluctuating magnetic field with zero mean. *Physical Review* **B61**, 5505-5510 (2000).

Callegari, A., J. Rebstein, R. Jost and T.R. Rizzo: State-to-state unimolecular reaction dynamics of HOCl near the dissociation threshold: The role of vibrations, rotations, and IVR probed by time- and eigenstate-resolved spectroscopy. *Journal of Chemical Physics* **111**, 7359-7368 (1999).

Cao, L.X., E. Sozontov and J. Zegenhagen: Cubic to tetragonal phase transition of SrTiO₃ under epitaxial stress: An X-ray backscattering study. *Physica Status Solidi* **A181**, 387-404 (2000).

Cao, L. and J. Zegenhagen: Elemental substitution and strain in RBa₂Cu₃O_{7- δ} superconducting thin films. *Physica Status Solidi* **B215**, 587-590 (1999).

Cao, L.X., J. Zegenhagen, E. Sozontov and M. Cardona: The effect of epitaxial strain on RBa₂Cu₃O₇ thin films and the perovskite substrate. *Physica* **C337**, 24-30 (2000).

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

Cappelluti, E. and R. Zeyher: Impurity effects on the flux phase quantum-critical-point scenario. *Europhysics Letters* **49**, 487-493 (2000).

Cappelluti, E. and R. Zeyher: Violation of Luttinger's theorem in strongly correlated electronic systems within a 1/N expansion. *International Journal of Modern Physics*. **B13**, 2607-2627 (1999).

Cardona, M.:

- Raman scattering in high- T_c superconductors: phonons, electrons, and electron-phonon interaction. *Physica* **C317-318**, 30-54 (1999).
- The second type of quantum excitations discovered. *Annalen der Physik* **9**, 865-870 (2000).
- Raman scattering in high- T_c superconductors: phonons, electrons, and magnons. *Springer Series in Materials Science* **42**, 151-225 (2000).
- Isotopic effects in the phonon and electron dispersion relations of crystals. *Physica Status Solidi* **B220**, 5-18 (2000).

Cardona, M. and N.E. Christensen: Spin-orbit splittings in AlN, GaN and InN. *Solid State Communications* **116**, 421-425 (2000).

Cardona, M. and G. Güntherodt:

- Light scattering in solids VII – Crystal-field and magnetic excitations – Introduction. Topics in Applied Physics **75**, 1-23 (2000).
- Light scattering in solids VIII – Fullerenes, semiconductor surfaces, coherent phonons – Introduction. Topics in Applied Physics **76**, 1-26 (2000).

Cardona, M., L.F. Lastras-Martinez, D.E. Aspnes, S. Albrecht, L. Reining, G. Onida, V. Olevano and R. Del Sole: Comment on: ‘Ab initio calculation of excitonic effects in the optical spectra of semiconductors’. Physical Review Letters **83**, 3970-3971 (1999).

Cardona, M., K. Syassen, T. Ruf, S.R. Bickham, J.D. Kress, L.A. Collins and R. Stumpf: Comment on: ‘Ab initio molecular dynamics studies of off-center displacements in CuCl’. Physical Review Letters **84**, 4511-4512 (2000).

Carrillo-Cabrera, W., J. Curda, K. Peters, S. Paschen, M. Baenitz, Y. Grin and H.G. von Schnering: Crystal structure of the defect clathrate-I, Ba₈Ge₄₃. Zeitschrift für Kristallographie – New Crystal Structures **215**, 321-322 (2000).

Carrillo-Cabrera, W., J. Curda, K. Peters and H.G. von Schnering: La₄[(C₂)_{1-x}Ge_x]₃, lanthanum(III) dicarbide(4-) germanide(4-) mixed crystals: A continuous transition between the cubic structure types *cI40* (Rb₄O₆/Pu₂C₃) and *cI28* (Th₃P₄). Journal of Solid State Chemistry **147**, 372-378 (1999).

Carrillo-Cabrera, W., J. Curda, H.G. von Schnering, S. Paschen and Y. Grin: Crystal structure of hexabarium pentacosagermanide, Ba₆Ge₂₅. Zeitschrift für Kristallographie – New Crystal Structures **215**, 207-208 (2000).

Casse, M., Z.D. Kvon, G.M. Gusev, E.B. Olshanetskii, L.V. Litvin, A.V. Plotnikov, D.K. Maude and J.C. Portal: Temperature dependence of the Aharonov-Bohm oscillations and the energy spectrum in a single-mode ballistic ring. Physical Review **B62**, 2624-2629 (2000).

Casse, M., E.B. Olshanetsky, Z.D. Kvon, D.K. Maude and J.C. Portal: The effect of DC bias in a ballistic single mode AlGaAs/GaAs ring interferometer. Physica **E7**, 781-785 (2000).

Cazayous, M., J.R. Huntzinger, J. Groenen, A. Mlayah, S. Christiansen, H.P. Strunk, O.G. Schmidt and K. Eberl: Resonant Raman scattering by acoustical phonons in Ge/Si self-assembled quantum dots: Interferences and ordering effects. Physical Review **B62**, 7243-7248 (2000).

Ceresoli, D., M. Bernasconi, S. Iarlori, M. Parrinello and E. Tosatti: Two-membered silicon rings on the dehydroxylated surface of silica. Physical Review Letters **84**, 3887-3890 (2000).

Chaboussant, G., M.-H. Julien, Y. Fagot-Revurat, H. Mayaffre, M. Horvatic, L.P. Levy, C. Berthier and O. Piovesana: High-field magnetic phases of a two-leg spin ladder: Cu₂(C₅H₁₂N₂)₂C₁₄. Physica **B280**, 315-316 (2000).

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

Chang, J.-H. and J. Köhler:

- Preparation and Rietveld refinements of the structures T₁₂SnF₆ and T₁₂TiF₆. Materials Research Bulletin **35**, 25-32 (2000).
- T₁₅SnF₉ and T₁₅TiF₉: The first [T₁₅F₃]⁽²⁺⁾ layers in novel thallium(I) fluoridefluorometallates(IV). Zeitschrift für Anorganische und Allgemeine Chemie **626**, 241-245 (2000).

Chappel, E., M. Holzappel, G. Chouteau and A. Ott: Effect of diamagnetic cobalt on the exchange interactions in the LiFe_{1-x}Co_xO₂ layered system, (0 ≤ x ≤ 1). Journal of Solid State Chemistry **154**, 451-459 (2000).

Chappel, E., M.D. Nuñez-Regueiro, G. Choutcau, O. Isnard and C. Daric: Study of the ferridistorsive orbital ordering in NaNiO_2 by neutron diffraction and submillimeter wave ESR. *European Physical Journal B17*, 615-622 (2000).

Chappel, M.D. Nuñez-Regueiro, F. Dupont, G. Chouteau, C. Daric and A. Sulpice: Antiferromagnetic resonance and high magnetic field properties of NaNiO_2 . *European Physical Journal B17*, 609-614 (2000).

Chen, C.Q., J. Zeman, F. Engelbrecht, C. Peppermüller, R. Helbig, Z.H. Chen and G. Martinez: Photothermal ionization spectroscopy of shallow nitrogen donor states in 4H-SiC. *Journal of Applied Physics 87*, 3800-3805 (2000).

Chen, C.Q., J. Zeman, F. Engelbrecht, C. Peppermüller, R. Helbig and G. Martinez: Shallow nitrogen donor states in 4H-SiC investigated by photothermal ionization spectroscopy. *Material Science Forum 338*, 611-614 (2000).

Cheng, S.J. and R.R. Gerhardt: Novel finite q plasmons in p-type GaAs/ $\text{Al}_x\text{Ga}_{1-x}\text{As}$ quantum wells. *Solid State Communications 116*, 669-674 (2000).

Cheng, S.J. siehe Jörger, C.

Chiorescu, I., R. Giraud, A.G.M. Jansen, A. Caneschi and B. Barbara: Phonon-assisted tunneling relaxation in the quantum regime of Mn_{12} acetate. *Physical Review Letters 85*, 4807-4810 (2000).

Choi, K.H., J.P. Bourgoïn, S. Auvray, D. Esteve, G.S. Duesberg, S. Roth and M. Burghard: Controlled deposition of carbon nanotubes on a patterned substrate. *Surface Science 462*, 195-202 (2000).

Choukroun, J., V.A. Pashchenko, Y. Ksari, J.Y. Henry, F. Mila, P. Millet, P. Monod, A. Stepanov, J. Dumas and R. Buder: Magnetic properties of the $S = 1/2$ one-dimensional antiferromagnet MgVO_3 . *European Physical Journal B14*, 655-659 (2000).

Chouteau, G., E. Chappel and M.D. Nunez-Regueiro: Magnetic versus structural properties in material for battery electrodes. *Physica Status Solidi B1*, 69-72 (1999).

Christ, P., W. Biberacher, M.V. Kartsovnik, E. Steep, E. Balthes, H. Weiss and H. Müller: Magnetic field-temperature phase diagram of the organic conductor α -(BEDT-TTF) $_2\text{KHg}(\text{SCN})_4$. *JETP Letters 71*, 303-306 (2000).

Christ, A., H. Giessen, W.W. Rühle, K. Korona, J. Kuhl, M. Zundel, Y. Manz and K. Eberl: Carrier dynamics in stacked InP/GaInP quantum dots. *Physica Status Solidi B221*, 59-63 (2000).

Ciorga, M., A.S. Sachrajda, P. Hawrylak, C. Gould, P. Zawadzki, S. Jullian, Y. Feng and Z. Wasilewski: Addition spectrum of a lateral dot from Coulomb and spin-blockade spectroscopy. *Physical Review B61*, 16315-16318 (2000).

Claus, J., M. Leonhardt and J. Maier: Tracer diffusion and chemical diffusion of oxygen in acceptor doped SrTiO_3 . *Physics and Chemistry of Solids 61*, 1199-1207 (2000).

Cobet, C., K. Wilmers, T. Wethkamp, N.V. Edwards, N. Esser and W. Richter: Optical properties of SiC investigated by spectroscopic ellipsometry from 3.5 to 10 eV. *Thin Solid Films 364*, 111-113 (2000).

Cole, J.M., M.R. Lees, J.A.K. Howard, R.J. Newport, G.A. Saunders and E. Schönherr: Crystal structures and magnetic properties of rare-earth ultraphosphates, RP_5O_{14} (R = La, Nd, Sm, Eu, Gd). *Journal of Solid State Chemistry 150*, 377-382 (2000).

Coleman, J.N., A.B. Dalton, S. Curran, A. Rubio, A.P. Davey, A. Drury, B. McCarthy, B. Lahr, P.M. Ajayan, S. Roth, R.C. Barklie and W.J. Blau: Phase separation of carbon nanotubes and turbostratic graphite using a functional organic polymer. *Advances in Physics 12*, 213-216 (2000).

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 similar to 2; y similar to 8). *Solid State Sciences 1*, 199-209 (1999).

Cornia, A., M. Affronte, A.G.M. Jansen, D. Gatteschi, A. Caneschi and R. Sessoli: Magnetic anisotropy of Mn_{12}^- acetate nanomagnets from high-field torque magnetometry. *Chemical Physics Letters* **322**, 477-482 (2000).

Cornia, A., A.G.M. Jansen and M. Affronte:

- Magnetic anisotropy of Fe_6 and Fe_{10} molecular rings by cantilever torque magnetometry in high magnetic fields. *Physical Review* **B60**, 12177-12183 (1999).
- High-field torque magnetometry on Fe_6 and Fe_{10} molecular magnets. *Molecular Crystals and Liquid Crystals Science and Technology* **A334**, 1113-1123 (1999).

Corti, M., M. Fanciulli and F. Tabak: ^{29}Si nuclear magnetic resonance spectra and relaxation in epsilon-FeSi. *Journal of Applied Physics* **87**, 6280-6282 (2000).

Coulon, C., J. Duval, C. Lavergne, A.L. Barra and A. Penicaud: Nature of the magnetic ground state in the A_1C_{60} series. *Journal de Physique IV* **10**, 205-210 (2000).

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

Czech, E., G. Goetz, 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).

Czerwinka, P.S., R.P. Campion, K.F. Horbelt, P.J. King, S. Misat, S.M. Morley, H.-U. Habermeier and B. Leibold: Investigations of the in-plane anisotropy and the critical behaviour of 10 degrees-tilted $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ films grown upon (106) SrTiO_3 substrates. *Physica* **C324**, 96-112 (1999).

Danckwerts, M., A.R. Goñi, C. Thomsen, K. Eberl and A.G. Rojo: Enhanced vortex damping by eddy currents in superconductor-semiconductor hybrids. *Physical Review Letters* **84**, 3702-3705 (2000).

Dashjav, E., T. Doert, P. Böttcher, Hj. Mattausch and O. Oeckler: Crystal structure of samarium selenide, $\text{SmSe}_{1.90}$. *Zeitschrift für Kristallographie – New Crystal Structures* **215**, 337-338 (2000).

Dashjav, E., O. Oeckler, T. Doert, Hj. Mattausch and P. Böttcher: $\text{Gd}_8\text{Se}_{15}$ – A 24-fold superstructure of the ZrSSi type. *Angewandte Chemie, International Edition in English* **39**, 1987-1988 (2000).

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

Deibele, S., J. Curda, E.M. Peters and M. Jansen: Ag_2HgO_2 : the first silver mercurate. *Journal of the Chemical Society, Chemical Communications*, 679-680 (2000).

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

Delon, A., F. Reiche, B. Abel, S.Y. Grebenschikov and R. Schinke: Investigation of loosely bound states of NO_2 just below the first dissociation threshold. *Journal of Physical Chemistry* **A104**, 10374-10382 (2000).

Deng, S., A. Simon and J. Köhler: Flat band-steep band scenario and superconductivity – the case of calcium. *Solid State Sciences* **2**, 31-38 (2000).

Denker, U. siehe Schmidt, O.G.

De Souza R.A. and J.A. Kilner: Oxygen transport in $\text{La}_{1-x}\text{Sr}_x\text{Mn}_{1-y}\text{Co}_y\text{O}_{3+\delta}$ perovskites part II. Oxygen surface exchange. *Solid State Ionics* **126**, 153-161 (1999).

De Souza R.A., J.A. Kilner and J.F. Walker: A SIMS study of oxygen tracer diffusion and surface exchange in $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_{3+\delta}$. *Materials Letters* **43**, 43-52 (2000).

Desrat, W., D.K. Maude, L.B. Rigal, M. Potemski, J.C. Portal, I. Eaves, M. Henini, Z.R. Wasilewski, A. Toropov, G. Hill and M.A. Pate: Low-frequency impedance of quantized Hall conductors. *Physical Review* **B62**, 12990-12996 (2000).

Dickmann, S., A.I. Tartakovskii, V.B. Timofeev, V.M. Zhilin, J. Zeman, G. Martinez and J.M. Hvam: Magneto-phonon resonance in photoluminescence excitation spectra of magnetoexcitons in GaAs/Al_{0.3}Ga_{0.7}As superlattice. *Physical Review* **B62**, 2743-2750 (2000).

Dietsche, W. siehe Jörger, C.; Kronmüller, S.; Msall, M.; Volkov, O.V.

Dolgov, O.V. and N. Schopohl: Transition radiation of moving Abrikosov vortices. *Physical Review* **B61**, 12389-12393 (2000).

Dolgov, O.V. siehe Kulic, M.L.

Dorfman, S., D. Fuks, A. Gordon and P. Wyder:

- Magnetic-field- and alloying-induced wetting of the ferroelectric domain structure in some smart materials. *Physical Review* **B60**, R9927-R9930 (1999).
- Wetting of the ferroelectric domain structure in (Ba,Sr)TiO₃. *Surface Review and Letters* **6**, 1221-1227 (1999).

Du, C.H., W.J. Lin, Y. Su, B.K. Tanner, P.D. Hatton, D. Casa, B. Keimer, J.P. Hill, C.S. Oglesby and H. Hohl: X-ray scattering studies of 2H-NbSe₂, a superconductor and charge density wave material, under high external magnetic fields. *Journal of Physics: Condensed Matter* **12**, 5361-5370 (2000).

Duboc-Toia, C., H. Hummel, E. Bill, A.L. Barra, G. Chouteau and K. Wieghardt: Integer-spin multi-frequency EPR spectroscopy of a ferromagnetically coupled, oxo-bridged Mn^{IV} Mn^{IV} model complex. *Angewandte Chemie, International Edition in English* **39**, 2888-2890 (2000).

Dudarev, S.L., M.R. Castell, G.A. Botton, S.Y. Savrasov, C. Muggelberg, G.A.D. Briggs, A.P. Sutton and D.T. Goddard: Understanding STM images and EELS spectra of oxides with strongly correlated electrons: a comparison of nickel and uranium oxides. *Micron* **31**, 363-372 (2000).

Dudarev, S.L., L.M. Peng, S.Y. Savrasov and J.M. Zuo: Correlation effects in the ground-state charge density of Mott insulating NiO: A comparison of ab initio calculations and high-energy electron diffraction measurements. *Physical Review* **B61**, 2506-2512 (2000).

Düchs, G., A. Sparenberg, G.L.J.A. Rikken and B.A. van Tiggelen: Photonic Hall effect of inactive Mie scatterers in a Faraday active matrix. *Physical Review* **E62**, 2840-2845 (2000).

Duesberg, G.S., I. Loa, M. Burghard, K. Syassen and S. Roth: Polarized Raman spectroscopy on isolated single-wall carbon nanotubes. *Physical Review Letters* **85**, 5436-5439 (2000).

Duesberg, G.S., J. Muster, H.J. Byrne, S. Roth and M. Burghard: Towards processing of carbon nanotubes for technical applications. *Applied Physics* **A69**, 269-274 (1999).

Dupont, F., S. deBrion, G. Chouteau, B. Leibold and H.-U. Habermeyer: High field electron spin resonance measurements on La_{0.67}Ca_{0.33}MnO₃ thin films. *Solid State Communications* **113**, 499-502 (2000).

Duschl, R. and K. Eberl: Physics and applications of Si/SiGe/Si resonant interband tunneling diodes. *Thin Solid Films* **380**, 151-153 (2000).

Duschl, R., O.G. Schmidt and K. Eberl:

- Room temperature I-V characteristics of Si/Si_{1-x}Ge_x/Si interband tunneling diodes. *Physica* **E7**, 836-839 (2000).
- Epitaxially grown Si/SiGe interband tunneling diodes with high room-temperature peak-to-valley ratio. *Applied Physics Letters* **76**, 879-881 (2000).
- Electronic properties of SiGeC alloys. *EMIS Datareviews Series* **24**, 158-177 (2000).

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).

Dyugaev, A.M., P.D. Grigorev and Y.N. Ovchinnikov: Properties of a classical electron gas at the surface of condensed media. *Journal of Experimental and Theoretical Physics* **90**, 1089-1092 (2000).

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 in quasi-one-dimensional superlattices. *Physica* **B272**, 190-193 (1999).

Eberl, K., M. Lipinski, Y.M. Manz, N.Y. Jin-Phillipp, W. Winter, C. Lange and O.G. Schmidt: Self-assembling InAs and InP quantum dots for optoelectronic devices. *Thin Solid Films* **380**, 183-188 (2000).

Eberl, K., O.G. Schmidt and R. Duschl: Structural properties of Si-C and Si-Ge-C alloy layers on Si. *EMIS Datareviews Series* **24**, 75-88 (2000).

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* **571**, 355-363 (2000).

Eberl, K., O.G. Schmidt, R. Duschl, O. Kienzle, E. Ernst and Y. Rau: Self-assembling SiGe and SiGeC nanostructures for light emitters and tunneling diodes. *Thin Solid Films* **369**, 33-38 (2000).

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).
- Self-assembling Si/SiGe nanostructures for light emitters. *Solid State Phenomena* **69-70**, 13-21 (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 First International Workshop on Lattice-Mismatched Heterovalent Thin Film Epitaxy*, (Ed.) Eugene A. Fitzgerald. Minerals, Metals & Materials Society, Warrendale 1999, 107-112.

Eberl, K., M.K. Zundel and H. Schuler: Self-assembling nanostructures and atomic layer precise etching in molecular beam epitaxy. *Solid State Ionics* **131**, 61-68 (2000).

Eberl, K. siehe Bertram, F.; Bracht, H.; Cazayous, M.; Christ, A.; Danckwerts, M.; Duschl, R.; Goñi, A.R.; Haboek, U.; Hayne, M.; Hüls, J.; Jörger, C.; Kaya, I.I.; Keyser, U.F.; Krahn, R.; Kukushkin, I.V.; Kulik, L.V.; Lipinski, M.; Lipinski, M.O.; Liu, Z.X.; Manz, Y.M.; Nachtwei, G.; Negoita, V.; Sata, N.; Schmid, J.; Schmidt, O.G.; Schuler, H.; Schumacher, H.W.; Schweinbock, T.; Sirenko, A.A.; Snoke, D.W.; Stangl, J.; Sugawara, Y.; Vasilyev, Y.; Volkov, O.V.; Weitz, P.

Engering, J. siehe Löffelholz, J.

Etrillard, J., P. Bourges and C.T. Lin: Incommensurate composite structure of the superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. *Physical Review* **B62**, 150-153 (2000).

Evans-Freeman J.H., A.R. Peaker, I.D. Hawkins, P.Y.Y. Kan, J. Terry, L. Rubaldo, M. Ahmed, S. Watts and L. Dobaczewski: High-resolution DLTS studies of vacancy-related defects in irradiated and in ion-implanted n-type silicon. *Materials Science in Semiconductor Processing* **3**, 237-241 (2000).

Fagot-Revurat, Y., M. Mehring and R.K. Kremer: Charge-order-driven spin-Peierls transition in α' - $\text{Na}_x\text{V}_2\text{O}_5$. *Physical Review Letters* **84**, 4176-4179 (2000).

Farber, P. and H. Kronmüller: Crystallization behaviour and magnetic properties of highly magnetostrictive Fe-Tb-Dy thin films. *Journal of Magnetism and Magnetic Materials* **214**, 159-166 (2000).

Fehér, T., A. Janossy, G. Oslnyi, F. Simon, B. Dabrowski, P.W. Klamut, M. Horvatic and G.V.M. Williams: Magnetic-field-induced low-energy spin excitations in $\text{YBa}_2\text{Cu}_4\text{O}_8$ measured by high field Gd^{3+} ESR. *Physical Review Letters* **85**, 5627-5630 (2000).

Feklisova, O.V., A.L. Parakhonsky, E.B. Yakimov and J. Weber: Dissociation of iron-related centers in Si stimulated by hydrogen. *Materials Science & Engineering* **B71**, 268-271 (2000).

Feklisova, O., N. Yarykin, E. Yakimov and J. Weber: Hydrogen interaction with defects in electron-irradiated silicon. *Physica* **B274**, 235-238 (1999).

Feldmann, C. and M. Jansen: Structural relationship between cis-sodium hyponitrite and alkaline metal carbonates M_2CO_3 ($M = Na, K, Rb, Cs$) group-subgroup relations. *Zeitschrift für Kristallographie* **215**, 343-345 (2000).

Felser, C., K. Ahn, R.K. Kremer, R. Seshadri and A. Simon: Giant negative magnetoresistance in GdI_2 : Prediction and realization. *Journal of Solid State Chemistry* **147**, 19-25 (1999).

Feng, Y., A.S. Sachrajda, P. Zawadzki, S. Kolind, M. Buchanan, J.H. Smet, J. Lapointe and P.A. Marshall: Fabrication of parallel quantum point contacts with submicron airbridges. *Journal of Vacuum Science & Technology* **A18**, 730-733 (2000).

Figulla-Kroschel, C. and M. Jansen: Syntheses, crystal structures, and properties of $Ln_4Au_2O_9$, ($Ln = Nd, Sm, Eu$). *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 2178-2184 (2000).

Finkeissen, 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).

Fleck, M., A.I. Lichtenstein and A.M. Oles: Metallic stripes in doped Hubbard model. *AIP Conference Proceedings* **483**, 45-52 (1999).

Fleck, M., A.I. Lichtenstein, A.M. Oles and L. Hedin: Spectral and transport properties of doped Mott-Hubbard systems with incommensurate magnetic order. *Physical Review* **B60**, 5224-5243 (1999).

Fleck, M., A.I. Lichtenstein, E. Pavarini and A.M. Oles: One-dimensional metallic behavior of the stripe phase in $La_{2-x}Sr_xCuO_4$. *Physical Review Letters* **84**, 4962-4965 (2000).

Fleig, J.:

- The influence of non-ideal microstructures on the analysis of grain boundary impedances. *Solid State Ionics* **131**, 117-127 (2000).
- Interfacial impedance in electroceramics: The effects of inhomogeneous current distributions. *Ceramic Transactions* **109**, 31-40 (2000).

Fleig, J. and J. Maier:

- 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).
- Finite-element calculations on the impedance of electroceramics with highly resistive grain boundaries: I, laterally inhomogeneous grain boundaries. *Journal of the American Ceramic Society* **82**, 3485-3493 (1999).
- Guest editorial. *Journal of Electroceramics* **5**, 79-80 (2000).

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

- Microcontact impedance measurements of individual highly resistive grain boundaries: General aspects and application to acceptor-doped $SrTiO_3$. *Journal of Applied Physics* **87**, 2372-2381 (2000).
- Spatially resolved measurements of highly conductive and highly resistive grain boundaries using microcontact impedance spectroscopy. *Solid State Ionics* **136-137**, 905-911 (2000).

Fleig, J. siehe Brichzin, V.; Jamnik, J.; Rodewald, S.

Fois, E., A. Gamba and G. Tabacchi: First-principles simulation of the intracage oxidation of nitrite to nitrate sodalite. *Chemical Physics Letters* **329**, 1-6 (2000).

Fong, H.F., P. Bourges, Y. Sidis, L.P. Regnault, J. Bossy, A. Ivanov, D.L. Milius, I.A. Aksay and B. Keimer: Spin susceptibility in underdoped $YBa_2Cu_3O_{6+x}$. *Physical Review* **B61**, 14773-14786 (2000).

Forstner, J., A. Knorr, S. Kuckenburg, T. Meier, S.W. Koch, H. Giessen, S. Linden and J. Kuhl: Nonlinear polariton pulse propagation in bulk semiconductors. *Physica Status Solidi* **B221**, 453-457 (2000).

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).

Frayssinet, E., W. Knap, P. Lorenzini, N. Grandjean, J. Massies, C. Skierbiszewski, T. Suski, I. Grzegory, S. Porowski, G. Simin, X. Hu, M.A. Khan, M.S. Shur, R. Gaska and D. Maude: High electron mobility in AlGaIn/GaN heterostructures grown on bulk GaN substrates. *Applied Physics Letters* **77**, 2551-2553 (2000).

Friede, B., W. Hoffbauer, M. Jansen, K. Schulmeister, W. Assenmacher and W. Mader: B₂Si₂O₆ – an amorphous inorganic network containing Si-Si bonds. *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 2269-2274 (2000).

Fritz, G., M. Keuthen, F. Kirschner, E. Matern, H. Goesmann, K. Peters, E.M. Peters and H.G. von Schnering: Formation of organosilicon compounds 117: C-brominated 1,3,5-trisilacyclohexanes and their reactions with BuLi. *Canadian Journal of Chemistry* **78**, 1388-1395 (2000).

Fuks, D., S. Dorfman, E.A. Kotomin, Y.F. Zhukovskii and A.M. Stoneham: Theoretical analysis of the growth mode for thin metallic films on oxide substrates. *Physical Review Letters* **85**, 4333-4336 (2000).

Fuller, T., M. Konuma, J. Zipprich and F. Banhart: The critical thickness of silicon-germanium layers grown by liquid phase epitaxy. *Applied Physics* **A69**, 597-603 (1999).

Gambardella, P., M. Blanc, H. Brune, K. Kuhnke and K. Kern:

- One-dimensional metal chains on Pt vicinal surfaces. *Physical Review* **B61**, 2254-2262 (2000).
- Co growth on Pt(997): from monatomic chains to monolayer completion. *Surface Science* **449**, 93-103 (2000).

Gambirasio, A., M. Bernasconi, C. Benedek and P.L. Silvestrelli: Ab initio simulation of laser-induced transformations in fullerite. *Physical Review* **B62**, 12644-12647 (2000).

Garcia, Y., O. Kahn, J.P. Ader, A. Buzdin, Y. Meurdesoif and M. Guillot: The effect of a magnetic field on the inversion temperature of a spin crossover compound revisited. *Physics Letters* **A271**, 145-154 (2000).

Gaulin, B.D., M.D. Lumsden, R.K. Kremer, M.A. Lumsden and H. Dabkowska: Two dimensional ordering and fluctuations in α' -NaV₂O₅. *Physical Review Letters* **84**, 3446-3449 (2000).

Gauss, N., A.G.M. Jansen, M.H. Julien, Y. Fagot-Revurat, M. Horvatic and P. Wyder: Investigation of localization in using hyperfine interaction. *Europhysics Letters* **49**, 75-80 (2000).

Geissler, P.L., C. Dellago, D. Chandler, J. Hutter and M. Parrinello: Ab initio analysis of proton transfer dynamics in (H₂O)₃H⁺. *Chemical Physics Letters* **321**, 225-230 (2000).

Gerhardts, R.R. siehe Cheng, S.J.; Jobst, S.; Jörger, C.; Zwerschke, S.D.M.

Gerken, M., P. Kolb, A. Wegner, H.P.A. Mercier, H. Borrmann, D.A. Dixon and G.J. Schrobilgen: Tetrachloro- and tetrabromoarsonium(V) cations: Raman and ⁷⁵As, ¹⁹F NMR spectroscopic characterization and X-ray crystal structures of [AsCl₄][As(OTeF₅)₆] and [AsBr₄][AsF(OTeF₅)₅]. *Inorganic Chemistry* **39**, 2813-2824 (2000).

Ghosh, S. and P. Adler: Competing magnetic interactions and large magnetoresistance effects in a layered iron(IV) oxide: citrate-gel synthesis and properties of Sr₃Fe_{1.8}Co_{0.2}O_{≈7}. *Solid State Communications* **116**, 585-589 (2000).

Ghosh, S., J. Weber and H. Presting: Photoluminescence processes in SimGen superlattices. *Physical Review* **B61**, 15625-15628 (2000).

Gibson, B.J., R. Pöttgen and R.K. Kremer: Magnetic structure determination of CeAuGe and CeAgGe. *Physica* **B276**, 734-735 (2000).

Giessen, H., S. Linden, J. Kuhl, A. Knorr, S.W. Kock, M. Hetterich, M. Grun and C. Klingshirn: Coherent propagation at high intensities on a free exciton resonance in a semiconductor: self-induced transmission. *Superlattices and Microstructures* **26**, 103-115 (1999).

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

Girt, E., M. Guillot, I.P. Swainson, K.M. Krishnan, Z. Altounian and G. Thomas: Structural and magnetic properties of Nd₂Fe_{17- δ} Ga ($\delta \leq 2$). *Journal of Applied Physics* **87**, 5323-5325 (2000).

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

Gmelin, E. and S.M. Sarge: Temperature, heat and heat flow rate calibration of differential scanning calorimeters. *Thermochimica Acta* **347**, 9-13 (2000).

Gmelin, E. siehe Awana, V.P.S.; Giguere, A.; Henn, R.W.; Kang, H.; Kasper, N.V.; Klemme, S.; Oppermann, H.; Ruf, T.; Sarge, S.M.; Schmidt, M.; Schnelle, W.

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

Goñi, A.R., M. Danckwerts, C. Thomsen, K. Eberl and A.G. Rojo: Experiments on vortex damping in novel superconductor-2D-electron-gas hybrid structures. *Physica Status Solidi* **B220**, 91-97 (2000).

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

Gordeev, S.N., A.P. Rassau, A.A. Zhukov, P.A.J. deGroot, A.G.M. Jansen, R. Gagnon and L. Taillefer: Anomalous in-plane magneto-resistance of low-oxygenation YBa₂. *Physica* **B284**, 642-643 (2000).

Gordeev, S.N., A.A. Zhukov, P.A.J. deGroot, A.G.M. Jansen, R. Gagnon and L. Taillefer: Oscillatory melting temperature of the vortex smectic phase in layered superconductors. *Physical Review Letters* **85**, 4594-4597 (2000).

Gordon, A. siehe Dorfman, S.

Gores, J., D. Goldhaber-Gordon, S. Heemeyer, M.A. Kastner, H. Shtrikman, D. Mahalu and U. Meirav: Fano resonances in electronic transport through a single-electron transistor. *Physical Review* **B62**, 2188-2194 (2000).

Grin, Y., M. Baitinger, R. Kniep and H.G. von Schnering: Redetermination of the crystal structure of tetrasodium *tetrahedro*-tetrastannide, Na₄Sn₄ and tetrapotassium *tetrahedro*-tetrastannide, K₄Sn₄. *Zeitschrift für Kristallographie – New Crystal Structures* **214**, 453-454 (1999).

Gross, G.M., F.S. Razavi, R.B. Praus and H.-U. Habermeier: Thickness dependence of microstructure in LaCaMnO thin films. *Journal of Magnetism and Magnetic Materials* **211**, 22-27 (2000).

Gross, G.M. siehe Habermeier, H.-U.; Praus, R.B.; Razavi, F.S.

Grzechnik, A.: Stability and optical properties of γ -Gd₂S₃ at high pressures. *Journal of Solid State Chemistry* **148**, 370-375 (1999).

Grzechnik, A., S. Stolen, E. Bakken, T. Grande and M. Mezouar: Structural transformations in three-dimensional crystalline GeSe₂ at high pressures and high temperatures. *Journal of Solid State Chemistry* **150**, 121-127 (2000).

Grzechnik, A., A. Vegas, K. Syassen, I. Loa, M. Hanfland and M. Jansen: Reversible antiferroite to anticotunnite phase transition in Li₂S at high pressures. *Journal of Solid State Chemistry* **154**, 603-611 (2000).

Grzechnik, A. siehe Schwarz, U.; Stolen, S.

Gu, G., P.P. Ong, C. Chen and S. Roth: Synthesis and characterization of $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$ thin films on silicon substrate by pulsed laser ablation. *Journal of Physics* **D33**, 1263-1266 (2000).

Gu, G.D. siehe Keimer, B.

Gubarev, S.I., I.V. Kukushkin, S.V. Tovstonog, M.Y. Akimov, J.H. Smet, K. von Klitzing and W. Wegscheider: Screening of excitonic states by low-density 2D charge carriers in GaAs/AlGaAs quantum wells. *JETP Letters* **72**, 324-328 (2000).

Guillot, M., H. Le G. and J.M.M. Desvignes: Magneto-optical properties of rare earth iron garnets. *Physica* **B17**, 619-626 (1999).

Gunnarsson, O.: C_{60} - the hole story. *Nature* **408**, 528-529 (2000).

Gunnarsson, O. and J.E. Han:

- The mean free path for electron conduction in metallic fullerenes. *Nature* **405**, 1027-1030 (2000).
- Resistivity of metallic A_3C_{60} (A = K, Rb): no lower limit to the mean free path? *AIP Conference Proceedings* **544**, 9-13 (2000).

Gunnarsson, O. siehe Allen, J.W.; Han, J.E.; Karlsson, K.; Koch, E.; Schönhammer, K.

Günther, E., R. Hagenmayer and M. Jansen: Structural investigations on the oxidenitrides SrTaO_2N , CaTaO_2N and LaTaON_2 by neutron and X-ray powder diffraction. *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 1519-1525 (2000).

Guo, X.:

- Low temperature stability of cubic zirconia. *Physica Status Solidi* **A177**, 191-201 (2000).
- In situ monitoring of the low temperature degradation of tetragonal zirconia with impedance spectroscopy. *Advanced Engineering Materials* **2**, 604-607 (2000).

Guo, X. and J. Maier: On the Hebb-Wagner polarisation of SrTiO_3 doped with redox-active ions. *Solid State Ionics* **130**, 267-280 (2000).

Gupta, A., R. Lal, A. Sedky, A.V. Narlikar and V.P.S. Awana: Correlation between superconducting critical temperature and normal-state resistivity parameters from the codoped $\text{ErBa}_2\text{Cu}_{3-x-y}\text{Zn}_x\text{Fe}_y\text{O}_{7-\delta}$ system. *Physical Review* **B61**, 11752-11761 (2000).

Gurevich, V.L. and I.D. Vagner: Hyperfine field driven giant quantum oscillations of ultrasonic absorption. *Physica* **B284**, 1876-1877 (2000).

Gusev, G.M., J.R. Leite, E.B. Olshanetskii, D.K. Maude, M. Casse, J.C. Portal, N.T. Moshegov and A.I. Toropov:

- Quantum Hall effect in a wide parabolic quantum well. *Brazilian Journal of Physics* **29**, 715-718 (1999).
- Magnetooscillations of electrons in nonparabolic confining potential. *Physica* **E6**, 112-115 (2000).

Gvozdkov, V.M., A.M. Ermolaev, I.D. Vagner and R. Vega-Monroy: Electromagnetic waves in quantum Hall superlattices and magnetoimpurity modes. *Physica* **B284**, 1734-1735 (2000).

Haas, G., A. Menck, H. Brune, J.V. Barth, J.A. Venables and K. Kern: Nucleation and growth of supported clusters at defect sites: Pd/MgO(001). *Physical Review* **B61**, 11105-11108 (2000).

Haas, H. and M. Jansen:

- Synthesis and characterization of tetralithiumpentaoxoselenate (VI). *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 1174-1178 (2000).
- Octahedral SeO_6^{6-} and square-pyramidal SeO_5^{4-} , two new oxoselenate anions. *Angewandte Chemie, International Edition in English* **39**, 4362-4364 (2000).

Habermeier, H.-U.: Controlled modifications of HTSC thin-film properties by tailoring substrate surfaces. *Journal of Superconductivity* **13**, 871-875 (2000).

Habermeier, H.-U., F. Razavi, O. Lebedev, G.M. Gross, R. 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, R. Praus and G.M. Gross: Tailoring of epitaxial strain in doped lanthanum-manganite thin films. *Physica* **C341**, 777-778 (2000).

Habermeier, H.-U. siehe Brichzin, V.; Czerwinka, P.S.; Dupont, F.; Gross, G.M.; Jooss, C.; Leonhardt, S.; Li, X.H.; Praus, R.B.; Razavi, F.S.

Haboeck, U., A.R. Goñi, M. Danckwerts, C. Thomsen and K. Eberl: Coupling of intersubband charge-density excitations to longitudinal-optical phonons in modulation-doped GaAs quantum wells. *Solid State Communications* **115**, 85-88 (2000).

Hadjiev, V.G., C. Bernhard, C.T. Lin, T. Ruf, M. Cardona and J.L. Tailon: Raman scattering from magnetic excitation in ruthenate-cuprates. *Physica* **C341-348**, 2255-2256 (2000).

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).

Hagenmayer, R.M., U. Müller, C.J. Benmore, J. Neufeind and M. Jansen: Structural studies on amorphous silicon boron nitride Si₃B₃N₇: neutron contrast technique on nitrogen and high energy X-ray diffraction. *Journal of Materials Chemistry* **9**, 2865-2870 (1999).

Hagenmayer, R.M., U. Müller and M. Jansen: Neutron contrast technique on nitrogen in Si₃B₃N₇. *Physica* **B276-278**, 423-424 (2000).

Hagenmayer, R. siehe Günther, E.; Jansen, M.

Hales, V.J., A.J. Poulter and R.J. Nicholas: Designs for a quantum cascade laser using interband carrier extraction. *Physica* **E7**, 84-88 (2000).

Halkier, A., B. Kirchner, H. Huber and M. Jaszunski: Nuclear quadrupole coupling constant of ²¹Ne in the neon dimer and its influence on the T-1 NMR relaxation time in fluid neon. *Chemical Physics* **253**, 183-191 (2000).

Hameau, S., Y. Guldner, O. Verzele, 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).

Han, J.E. and O. Gunnarsson:

- Metal-insulator transitions in systems with electron-phonon and Coulomb interactions. *Physica* **B292**, 196-207 (2000).
- Phonon spectral function for an interacting electron-phonon system. *Physical Review* **B61**, 8628-8630 (2000).

Han, J.E., E. Koch and O. Gunnarsson: Metal-insulator transitions: Influence of lattice structure, Jahn-Teller effect, and Hund's rule coupling. *Physical Review Letters* **84**, 1276-1279 (2000).

Hanfland, M., K. Syassen, N.E. Christensen and D.L. Novikov: New high-pressure phases of lithium. *Nature* **408**, 174-178 (2000).

Hapke-Wurst, I., U. Zeitler, H. Frahm, A.G.M. Jansen, R.J. Haug and K. Pierz: Magnetic-field-induced singularities in spin-dependent tunneling through InAs quantum dots. *Physical Review* **B62**, 12621-12624 (2000).

Hayne, M., R. Provoost, M.K. Zundel, Y. Manz, K. Eberl and V.V. Moshchalkov:

- Hole coupling in stacked self-assembled InP quantum dots. *Physica* **E6**, 436-439 (2000).
- Photoluminescence of stacked self-assembled InP quantum dots in high magnetic fields. *Physica* **E8**, 125-128 (2000).
- Electron and hole confinement in stacked self-assembled InP quantum dots. *Physical Review* **B62**, 10324-10328 (2000).

He, H. siehe Keimer, B.

Hebling, J., I.Z. Kozma and J. Kuhl: Compact high-aperture optical setup for excitation of dynamic gratings by ultrashort light pulses. *Journal of the Optical Society of America* **B17**, 1803-1805 (2000).

Hebling, J., X.P. Zhang, H. Giessen, J. Kuhl and J. Seres: Pulse characteristics of an optical parametric oscillator pumped by sub-30-fs light pulses. *Optics Letters* **25**, 1055-1057 (2000).

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

Heifets, E., E.A. Kotomin, P.W.M. Jacobs: Calculations of the atomic structure of the KnBO_3 (110) surface. *Thin Solid Films* **374**, 64-69 (2000).

Heifets, E., E.A. Kotomin and J. Maier: Semi-empirical simulations of surface relaxation for perovskite titanates. *Surface Science* **462**, 19-35 (2000).

Heil, J., A. Bohm, A. Groger, M. Primke, P. Wyder, P. Keppler, J. Major, H. Bender, E. Schönherr, H. Wendel, B. Wolf, K.U. Wurz, W. Grill, H. Herrnberger, S. Knauth and J. Lenzner: Electron focusing in metals and semimetals. *Physics Reports* **323**, 388-455 (2000).

Heinebrodt, M., N. Malinowski, F. Tast, W. Branz, I.M.L. Billas and T.P. Martin: Fission of doubly charged binary metal clusters. *European Physical Journal* **D9**, 133-136 (1999).

Henn, R.W., K. Ahn, H.-A. Krug von Nidda, R.K. Kremer and A. Simon: Pressure dependence of the transition temperature of layered superconductors $\text{Y}_2\text{C}_2\text{Br}_{2-x}\text{I}_x$. *Physica* **C341-348**, 719-722 (2000).

Henn, R.W., C. Bernhard, R.K. Kremer, Th. Gulden, A. Simon, Th. Blasius and Ch. Niedermayer: Transverse-field muon spin relaxation investigations of the magnetic penetration depth in the carbide superconductors $\text{Y}_2\text{C}_2(\text{Br}, \text{I})_2$ and YC_2 . *Physical Review* **B62**, 14469-14472 (2000).

Henn, R.W., H. Friedrich, V.P.S. Awana and E. Gmelin: Effect of argon and oxygen annealing on the ferromagnetic ordering of the Ru moments in $\text{RuSr}_2\text{GdCu}_2\text{O}_8$. *Physica* **C341**, 457-458 (2000).

Henn, R.W., R.K. Kremer and A. Simon: Magnetic susceptibility investigations on the layered superconductors $\text{Y}_2\text{C}_2\text{Br}_2:\text{RE}$ (RE = Gd, Dy, Er). *Journal of Superconductivity* **13**, 471-477 (2000).

Henrion, W., M. Rebien, A.G. Birdwell, V.N. Antonov and O. Jepsen: Optical interband spectra and band structure of Ru_2Si_3 and Ru_2Ge_3 . *Thin Solid Films* **364**, 171-176 (2000).

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

Herman, A. and E. Schönherr: Estimation of incorporation energies of Zn-Se and Si-S pairs in different surface steps of ZnSe crystals with a semi-empirical finite-size cluster approach. *Modelling and Simulation in Materials Science and Engineering* **8**, 151-158 (2000).

Holden, T. siehe Bernhard, C.

Holzinger, M., A. Hirsch, P. Bernier, G.S. Duesberg and M. Burghard: A new purification method for single-wall carbon nanotubes (SWNTs). *Applied Physics* **A70**, 599-602 (2000).

Hönle, W., K. Peters, E.M. Peters, H.G. von Schnering, R. Schmidt, S.A. Moya, M. Gullpi and H. Binder: Crystal structure of bis(3,3'-trimethylene-2,2'-biquinolinium)(1+) dibromoaurate(I)(1-) tetrabromoaurate(III)(1-), $(C_{21}H_{16}N_2H)_2[AuBr_2][AuBr_4]$, a mixed valence Au(I)/Au(III) salt. Zeitschrift für Kristallographie – New Crystal Structures **215**, 409-410 (2000).

Hönle, W., K. Peters, E.M. Peters, H.G. von Schnering, R. Schmidt, S.A. Moya, R. Pastene, M. Gullpi and H. Binder: Crystal structure of 3,3'-trimethylene-2,2'-biquinolinium tetrabromoaurate(III), $[C_{21}H_{16}N_2H]^+[AuBr_4]^-$. Zeitschrift für Kristallographie – New Crystal Structures **215**, 411-412 (2000).

Horsch, P., G. Khaliullin and V. Oudovenko: Density response of the t-J model and renormalization of breathing and half-breathing phonon modes. A slave fermion calculation. Physica **C341**, 117-120 (2000).

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

Huard, V., R.T. Cox, K. Saminadayar, C. Bourgognon, A. Arnoult, J. Cibert, S. Tatarenko and M. Potemski: Magneto-optical absorption studies of modulation-doped CdTe and CdMnTe quantum wells. Physica Status Solidi **A178**, 95-99 (2000).

Hüls, J., J. Weis, K. von Klitzing and K. Eberl: Fine structure in the local chemical potential of a two-dimensional electron system at filling factor $\nu = 2/3$. Physica **E6**, 64-68 (2000).

Humlicek, J., R. Henn and M. Cardona: Infrared vibrations in $LaSrGaO_4$ and $LaSrAlO_4$. Physical Review **B61**, 14554-14563 (2000).

Hünig, S., M. Kemmer, H. Wenner, F. Barbosa, G. Gescheidt, I.F. Perepichka, P. Bäuerle, A. Emge and K. Peters: Violine/cyanine hybrids as electrochromics part 2: tetrakis(4-dimethylaminophenyl)ethene and its derivatives. Chemistry: A European Journal **6**, 2618-2632 (2000).

Hutter, J.: Large-scale first-principles simulations of chemical reactions. Speedup **12**, 4-8 (1999).

Ikeda, T., M. Sprik, K. Terakura and M. Parrinello: Hydrogen elimination and solid-state reaction in hydrogen-bonded systems under pressure: The case of HBr. Journal of Physical Chemistry **B104**, 11801-11804 (2000).

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

Ischenko, V. siehe Rings, S.

Ismail, P. Hofmann, E.W. Plummer, C. Bungaro and W. Kress: Surface lattice dynamics of Mg(0001). Physical Review **B62**, 17012-17019 (2000).

Isnard, O. and M. Guillot: Investigation of the magnetic properties of Nd_2Fe_{17} and $Nd_2Fe_{17}H_x$ ($x = 3, 4.9$) in high magnetic field. Journal of Applied Physics **87**, 5326-5328 (2000).

Istomin, S.Ya., G. Svensson, H. Hannerz and J. Köhler: An X-ray powder and electron diffraction study of reduced tantalates with the Perovskite structure, $Na_{1-x}Sr_xTaO_3$, $0 < x \leq 0.4$. Journal of Solid State Chemistry **154**, 427-434 (2000).

Itoh, E., M. Iwamoto, M. Burghard and S. Roth: Ultraviolet photoelectron spectroscopy and surface potential of π -conjugated Langmuir-Blodgett films on gold metal electrode. Japan Journal of Applied Physics **39**, 5146-5150 (2000).

Itskovsky, M.A., T. Maniv and I.D. Vagner: Wave form of de Haas-van Alphen oscillations in a two-dimensional metal. Physical Review **B61**, 14616-14627 (2000).

Ivanov, D.Yu., E. Takhtamirov, Yu.V. Dubroskii, V.A. Volkov, L. Eaves, P.C. Main, M. Henini, D.K. Maude, J.C. Portal, J.C. Maan and G. Hill: Observation of the interaction between Landau levels of different two-dimensional subbands in GaAs in a normal magnetic field. JETP Letters **72**, 476-479 (2000).

Jäschke, T. siehe Jansen, M.

Jamnik, J., J. Fleig, M. Leonhardt and J. Maier: Apparent surface rate constants in diffusion problems – Flux constriction effects. *Journal of the Electrochemical Society* **147**, 3029-3035 (2000).

Jamnik, J. and J. Maier: Treatment of the impedance of mixed conductors – Equivalent circuit model and explicit approximate solutions. *Journal of the Electrochemical Society* **146**, 4183-4188 (1999).

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

Jansen, L. siehe Makarovskii, O.N.

Jansen, M., R. Hagenmayer and N. Korber: Rb_4O_6 studied by elastic and inelastic neutron scattering. *Comptes Rendus de l'Academie des Sciences IIc* **2**, 591-594 (1999).

Jansen, M. and T. Jäschke:

– Preparation, crystal structure, and spectroscopic characterization of $[(\text{H}_3\text{C})_3\text{Si}]\text{NH}(\text{BCl}_2)$. *Zeitschrift für Anorganische und Allgemeine Chemie* **625**, 1957-1959 (1999).

– Crystal structure and spectroscopic characterisation of hexamethyldisilazane-trichloroaluminum $[(\text{H}_3\text{C})_3\text{Si}]_2\text{NH} \cdot \text{AlCl}_3$. *Zeitschrift für Naturforschung* **B55**, 763-767 (2000).

Jansen, R. and M. Kroschel: Conversion of N-methylpolyborosilzane to amorphous siliconboroncarbide. *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 1634-1638 (2000).

Jansen, M. and H.P. Letschert: Inorganic yellow-red pigments without toxic metals. *Nature* **404**, 980-982 (2000).

Jansen, M. and S. Vensky: Synthesis and characterization of the silver(I,II,III) oxide clathrate $\text{Ag}_7\text{O}_8\text{HCO}_3$. *Zeitschrift für Naturforschung* **B55**, 882-886 (2000).

Jansen, M., N. Wagner, M. Becker and U. Wedig: No van Vleck-type paramagnetism in In_2ZrBr_6 . *Journal of the American Chemical Society* **122**, 808-809 (2000).

Jansen, M. siehe Albert, B.; Becker, M.; Deibele, S.; Feldmann, C.; Figulla-Kroschel, C.; Friede, B.; Grzechnik, A.; Günther, E.; Haas, H.; Hagenmayer, R.M.; Henseler, U.; Jeschke, G.; Kazin, P.E.; Kessler, U.; Klein, W.; Klösters, G.; Löffelholz, J.; Malchus, M.; Mudring, A.V.; Müller, U.; Oku, T.; Poltavets, V.V.; Putz, H.; Rings, S.; Schön, J.C.; Wevers, M.A.C.; Witschas, M.; Willen van, L.

Jardin, C., O. Oeckler, H. Mattausch, A. Simon, J.F. Halet, J.Y. Saillard and J. Bauer: Synthesis, characterization, and structural and theoretical analysis of $\text{Gd}_4\text{B}_3\text{C}_4$: A novel rare earth metal borocarbide containing two different boron-carbon arrangements. *Inorganic Chemistry* **39**, 5895-5900 (2000).

Jeschke, G., M. Kroschel and M. Jansen: A magnetic resonance study on the structure of amorphous networks in the Si-B-N(-C) system. *Journal of Non-Crystalline Solids* **260**, 216-227 (1999).

Jepsen, O. siehe Allen, J.W.; Andersen, O.K.; Henrion, W.; Karlsson, K.; Kong, Y.; Schwarz, U.

Jobst, S., S. Zwerschke, J.H. Smet, R.R. Gerhardt, D. Weiss, K. von Klitzing and V. Umansky: Composite fermions in a weakly density modulated 2DEG: direct evidence of a periodic magnetic field around $\nu = 1/2$. *Physica* **E6**, 87-90 (2000).

Jörger, C., S.J. Cheng, W. Dietsche, R. Gerhardt, P. Specht, K. Eberl and K. von Klitzing: Frictional drag between coupled 2D hole gases in GaAs/AlGaAs heterostructures. *Physica* **E6**, 598-601 (1999).

Jörger, C., S.J. Cheng, H. Rubel, W. Dietsche, R. Gerhardt, P. Specht, K. Eberl and K. von Klitzing: Frictional drag between coupled two-dimensional hole gases in GaAs/ $\text{Al}_{0.3}\text{Ga}_{0.7}\text{As}$ heterostructures. *Physical Review* **B62**, 1572-1575 (2000).

Jörger, C., W. Dietsche, W. Wegscheider and K. von Klitzing: Drag effect between 2D electron gases: Composite fermion and screening effects. *Physica* **E6**, 586-589 (1999)

Johnston, D.C., R.K. Kremer, M. Troyer, X. Wang, A. Klumper, S.L. Budko, A.F. Panchula and P.C. Canfield: Thermodynamics of spin $S = 1/2$ antiferromagnetic uniform and alternating-exchange Heisenberg chains. *Physical Review* **B61**, 9558-9606 (2000).

Jongbloets, H. siehe Aubert, G.; Mossang, E.

Jooss, C., R. Warthmann, H. Kronmüller, J. Zegenhagen and H.-U. Habermeier: Pinning mechanism of vortices at antiphase boundaries in YBaCuO films. *Physica* **C341**, 1419-1422 (2000).

Joss, W. siehe Aubert, G.; Mossang, E.; Oliva, A.B.

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).

Joyeux, M., D. Sugny, M. Lombardi, R. Jost, R. Schinke, S. Skokov and J. Bowman: Vibrational dynamics up to the dissociation threshold: A case study of two-dimensional HOCl. *Journal of Chemical Physics* **113**, 9610-9621 (2000).

Julien, M.-H., T. Fehér, M. Horvatic, C. Berthier, O.N. Bakharev, P. Segransan, G. Collin and J.-F. Marucco: ^{63}Cu NMR evidence for enhanced antiferromagnetic correlations around Zn impurities YBa₂Cu₃O_{6.7}. *Physical Review Letters* **84**, 3422-3425 (2000).

Kacmarcik, J., P. Szabo, P. Samuely, A. Briggs, A.G.M. Jansen and A. Meerschaut: Upper critical field in highly anisotropic superconductor (LaSe)_{1.14}(NbSe₂). *Physica* **B284-288**, 961-962 (2000).

Kamata, T., T. Kodzasa, H. Ushijima, K. Yamamoto, T. Ohta and S. Roth: Fabrication of a superstructured one-dimensional alloy in a thin film using bis(dimethylglyoximate)metal (II). *Chemistry of Materials* **12**, 940-945 (2000).

Kang, H., K. Barner, H. Rager, U. Sondermann, P. Mandal, I.V. Medvedeva and E. Gmelin: EPR spectra of CuIr₂S₄. *Journal of Alloys and Compounds* **306**, 6-10 (2000).

Karimov, O.Z., D. Wolverson, J.J. Davies, S.I. Stepanov, T. Ruf, S.V. Ivanov, S.Y. Sorokin, C.B. O'Donnell and K.A. Prior: Electron g-factor for cubic Zn_{1-x}Cd_xSe determined by spin-flip Raman scattering. *Physical Review* **B62**, 16582-16586 (2000).

Karlsson, K., O. Gunnarsson and O. Jepsen: Core level chemical shifts and line shapes for systems with different valencies and Cu-O networks. *Journal of Modern Physics* **B14**, 3791-3830 (2000).

Kasper, N.V., A. Kattwinkel, N. Hamad, K. Barner, I.O. Troyanchuk, D.D. Khalyavin, M. Dressel, E. Gmelin and E. Schmitt: Time-resolved thermoelectrical effect in Sm_{0.56}Sr_{0.44}MnO₃ perovskite. *Physica* **B292**, 54-58 (2000).

Katsnelson, M.I. and A.I. Lichtenstein: First-principles calculations of magnetic interactions in correlated systems. *Physical Review* **B61**, 8906-8912 (2000).

Kaupp, M.: Charting no-man's land in d0 transition metal six-coordination: Structure predictions for the complexes [WCl₃(CH₃)₃], [WCl₄(CH₃)₂], and [WCl₃(CH₃)₃]. *Angewandte Chemie, International Edition in English* **38**, 3034-3037 (1999).

Kaupp, M., O.L. Malkina and V.G. Malkin: The role of p-type nonbonding orbitals for spin-orbit induced NMR chemical shifts: DFT study of ^{13}C and ^{19}F shifts in the series CF₃IF_n (n=0, 2, 4, 6). *Journal of Computational Chemistry* **20**, 1304-1313 (1999).

Kaupp, M., C. Rovira and M. Parrinello: Density functional study of ^{17}O NMR chemical shift and nuclear quadrupole coupling tensors in oxyheme model complexes. *Journal of Physical Chemistry* **B104**, 5200-5208 (2000).

Kaupp, M., J. Vaara, M. Munzarova, O.L. Malkina and V.G. Malkin: Density functional calculations of NMR and EPR parameters for heavy-element compounds. Abstracts of Papers of the American Chemical Society **219**, 14 (2000).

Kaya, I.I., G. Nachtwei, B.E. Sagol, K. von Klitzing and K. Eberl: Spatial evolution of the generation and relaxation of excited carriers near the breakdown of the quantum Hall effect. *Physica* **E6**, 128-131 (2000).

Kazimirov, A., L.X. Cao, G. Scherb, L. Cheng, M.J. Bedzyk and J. Zegenhagen: X-ray standing-wave analysis of the rare-earth atomic positions in $\text{RBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films. *Solid State Communications* **114**, 271-276 (2000).

Kazin, P.E., V.V. Poltavets, O.N. Poltavets, A.A. Kovalevsky, Y.D. Tretyakov and M. Jansen: Formation of Bi-2212 phase and phase assemblage in Ga-doped BSCCO system. *Physica* **C324**, 30-38 (1999).

Kazin, P.E., R.A. Shuba, Y.D. Tretyakov, A.V. Knotko, M. Jansen and B. Freitag: Formation of Bi-2212-based composites with submicrometre-grained $(\text{Sr, Ca})\text{SnO}_3$. *Superconductor Science and Technology* **13**, 134-139 (2000).

Keimer, B.: Spin excitations in high temperature superconductors. In: *Femtosekunden und Nano-eV. Schriften des Forschungszentrums Jülich / Materie und Material Bd. 3*, Forschungszentrum Jülich, Jülich 2000, E1.1-E1.9.

Keimer, B., P. Bourges, H.F. Fong, G.D. Gu, H. He, A. Ivanov, N. Koshizuka, B. Liang, C.T. Lin, L.P. Regnault, Y. Sidis and E. Schönherr: Spin excitations in cuprates: From underdoped to overdoped state. *Physica* **C341**, 2113-2116 (2000).

Keimer, B., D. Casa, A. Ivanov, J.W. Lynn, M.v. Zimmermann, J.P. Hill, D. Gibbs, Y. Taguchi and Y. Tokura: Spin dynamics and orbital state in LaTiO_3 . *Physical Review Letters* **85**, 3946-3949 (2000).

Keimer, B. siehe Bourges, P.; Du, C.H.; Fong, H.F.; Lynn, J.W.; Sidis, Y.

Kern, K. siehe Barth, J.V.; Bromann, K.; Bürgi, L.; Gambardella, P.; Haas, G.; Kind, H.; Leifeld, O.; Petersen, L.; Wu, X.C.

Kessler, U. and M. Jansen: Trimeric anions in KTeO_2F . *European Journal of Inorganic Chemistry*, 1767-1770 (2000).

Keyser, U.F., H.W. Schumacher, U. Zeitler, R.J. Haug and K. Eberl: Fabrication of a single-electron transistor by current-controlled local oxidation of a two-dimensional electron system. *Applied Physics Letters* **76**, 457-459 (2000).

Khaliullin, G. and R. Kilian:

– Orbital order out of spin disorder: how to measure the orbital gap. *Journal of Physics: Condensed Matter* **11**, 9757-9763 (1999).

– Theory of anomalous magnon softening in ferromagnetic manganites. *Physical Review* **B61**, 3494-3501 (2000).

Khaliullin, G. and S. Maekawa: Orbital Liquid in Three-Dimensional Mott Insulator: LaTiO_3 . *Physical Review Letters* **85**, 3950-3953 (2000).

Khaliullin, G. siehe Horsch, P.

Khanin, Y.N., Y.V. Dubrovskii, E.E. Vdovin, D.K. Maude, J.C. Portal, L. Eaves, P.C. Main, M. Henini, A.K. Geim, J.C. Maan and G. Hill: Magnetic field variation of tunnelling gap between disordered two-dimensional electron systems. *Physica* **E6**, 602-605 (2000).

Kim, G.T., J. Muster, V. Krstic, J.G. Park, Y.W. Park, S. Roth and M. Burghard: Field-effect transistor made of individual V_2O_5 nanofibers. *Applied Physics Letters* **76**, 1875-1877 (2000).

Kim, G.T. siehe Krstic, V.; Kun Liu, S. Roth; Liu, K.; Muster, J.

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

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

Kind, H., J.M. Bonard, L. Forro, K. Kern, K. Hernadi, L.O. Nilsson and L. Schlapbach: Printing gel-like catalysts for the directed growth of multiwall carbon nanotubes. *Langmuir* **16**, 6877-6883 (2000).

Klein, W. and M. Jansen:

- Synthesis and crystal structure of lithiumozonide-ammonia (1/5) $\text{LiO}_3 \cdot 5\text{NH}_3$. *Zeitschrift für Naturforschung* **B54**, 1345-1349 (1999).
- Synthesis and crystal structure analysis of sodium ozonide. *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 136-140 (2000).
- $\text{Cs}_2\text{Ba}(\text{O}_3)_4 \cdot 2\text{NH}_3$, the first ionic alkaline earth metal ozonide. *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 947-950 (2000).

Klemme, S., H.S.O. Neill, W. Schnelle and E. Gmelin: The heat capacity of MgCr_2O_4 , FeCr_2O_4 , and Cr_2O_3 at low temperatures and derived thermodynamic properties. *American Mineralogist* **85**, 1686-1693 (2000).

Klitzing, K. von siehe Akimov, M.Y.; Albrecht, C.; Gubarev, S.I.; Hüls, J.; Jobst, S.; Jörger, C.; Kaya, I.I.; Kulik, L.V.; Kukushkin, I.V.; Müller-Schwanneke, C.; Nachtwei, G.; Schmid, J.; Schuler, H.; Smet, J.H.; Vasilyev, Y.; Volkov, O.V.; Weis, J.; Weitz, P.

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

Klösters, G. and M. Jansen: Determination of the ^{23}Na Sternheimer antishielding factor by ^{23}Na NMR spectroscopy on sodium oxide chloride, Na_3OCl . *Solid State Nuclear Magnetic Resonance* **16**, 279-283 (2000).

Knack, S., J. Weber and H. Lemke: Copper-hydrogen complexes in silicon. *Physica* **B273-274**, 387-390 (1999).

Knap, W., E. Frayssinet, M.L. Sadowski, C. Skierbiszewski, D. Maude, V. Falko, M.A. Khan and M.S. Shur: Effective g^* factor of two-dimensional electrons in GaN/AlGaN heterojunctions. *Applied Physics Letters* **75**, 3156-3158 (1999).

Koch, E. and O. Gunnarsson: One-electron bands, quantum Monte Carlo, and real superconductors. *Physica* **A280**, 166-173 (2000).

Koch, E., O. Gunnarsson and R.M. Martin:

- Metal-insulator transitions in generalized Hubbard models. *Computer Physics Communications* **127**, 137-142 (2000).
- Screening of a point charge: a fixed-node diffusion Monte Carlo study. *Springer Proceedings in Physics* **85**, 22-36 (2000).

Koch, E. siehe Han, J.E.

Köhler, J.: Syntheses and structures of novel complex Yb(II) fluorides: YbBeF_4 , YbAlF_5 and LiYbAlF_6 . *Solid State Sciences* **1**, 545-553 (1999).

Köhler, J. and J-H. Chang: $[\text{PtIn}_6]^{10+}$ octahedra in $\text{PtIn}_7\text{F}_{13}$: The first compound of a new class of metal-cluster fluorides. *Angewandte Chemie, International Edition in English* **39**, 1998-2000 (2000).

Köhler, J. and H.-Dieter Wiemhofer: Solid-state chemistry 1999. *Nachrichten aus der Chemie* **48**, 254-262 (2000).

Köhler, J. siehe Chang, J.-H.; Deng, S.; Istomin, S. Ya.

Kong, Y and O. Jepsen: Lattice vibrations and structural instability in cesium near the cubic to tetragonal transition. *Journal of Physics: Condensed Matter* **12**, 8973-8982 (2000).

Konstantinovic, M.J., Z.V. Popovic, M. Isobe and Y. Ueda: Raman scattering from magnetic excitations in the spin-ladder compounds CaV_2O_5 and MgV_2O_5 . *Physical Review* **B61**, 15185-15188 (2000).

Konstantinovic, M.J., Z.V. Popovic, A.N. Vasilev, 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).

Kormann, O., J. Major, I.D. Reid, A. Rock, M. Scheffzik, L. Schimmele, A. Seeger and D. Herlach: Radio-frequency μSR investigations on paramagnetic muonium centres in crystalline silicon. *Physica* **B289-290**, 530-533 (2000).

Kornev, I., M. Bichurin, J.P. Rivera, S. Gentil, H. Schmid, A.G.M. Jansen and P. Wyder: Magnetoelectric properties of LiCoPO_4 and LiNiPO_4 . *Physical Review* **B62**, 12247-12249 (2000).

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).

– Magnetoelectric properties of LiCoPO_4 : microscopic theory. *Physica* **B271**, 304-308 (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).

Korotin, M.A., V.I. Anisimov, T. Saha-Dasgupta and I. Dasgupta: Electronic structure and exchange interactions of the ladder vanadates CaV_2O_5 and MgV_2O_5 . *Journal of Physics: Condensed Matter* **12**, 113-124 (2000).

Kosevich, A.M. and I.D. Wagner: Nonquantum oscillations associated with the dynamics of an electron in superlattice. *Low Temperature Physics* **25**, 650-655 (1999).

Krack, M. and M. Parrinello: All-electron ab-initio molecular dynamics. *Physical Chemistry, Chemical Physics* **2**, 2105-2112 (2000).

Krahne, R., M. Hochgrafe, C. Heyn, D. Heitmann, M. Hauser and K. Eberl: Excitation of two-dimensional plasmons with cross-grating couplers. *Physical Review* **B62**, 15345-15347 (2000).

Kramkowski, P., G. Baum, U. Radius, M. Kaupp and M. Scheer: Novel complexes with a short tungsten – Phosphorus triple bond. *Chemistry: A European Journal* **5**, 2890-2898 (1999).

Krasovitsky, V.B., V.V. Khotkevich, A.G.M. Jansen and P. Wyder: ‘High-temperature’ oscillations of bismuth conductivity in the ultra-quantum limit. *Low Temperature Physics* **25**, 677-681 (1999).

Krause, N., H. Soltau, D. Hauff, J. Kemmer, D. Stotter, L. Struder and J. Weber: Metal contamination analysis of the epitaxial starting material for scientific CCDs. *Nuclear Instruments & Methods in Physics Research* **A439**, 228-238 (2000).

Kremer, R.K., K. Ahn, R.W. Henn, Hj. Mattausch, W. Schnelle, A. Stolovits and A. Simon: Rare-earth metal carbide halide superconductors $\text{RE}_2\text{C}_2\text{X}_2$ (RE equals Y, La; X equals 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 $\alpha\text{-NaV}_2\text{O}_5$. *Solid State Communications* **113**, 217-220 (1999).

Kremer, R.K. siehe Ahn, K.; Bernhard, C.; Fagot-Revurat, Y.; Felser, C.; Gaulin, B.D.; Gibson, B.J.; Henn, R.W.; Johnston, D.C.; Li, R.K.; Loa, I.; Mattausch, H.; Presura, C.; Schnelle, W.; Stolovits, A.; Taylor, J.W.; Wingbermühle, J.

Kress, J.D., S.R. Bickham, L.A. Collins, B.L. Holian and S. Goedecker: Tight-binding molecular dynamics of shock waves in methane. *Physical Review Letters* **83**, 3896-3899 (1999).

Kress, W. siehe Ismail, P. Hofmann

Kreuer, K.-D.:

- Aspects of the formation and mobility of protonic charge carriers and the stability of perovskite-type oxides. *Solid State Ionics* **125**, 285-302 (1999).
- On the complexity of proton conduction phenomena. *Solid State Ionics* **136-137**, 149-160 (2000).

Kreuer, K.-D., M. Ise, A. Fuchs and J. Maier: Proton and water transport in nano-separated polymer membranes. *Journal de Physique IV* **10**, 279-281 (2000).

Kreuer, K.-D., W. Münch and J. Maier: About the complexity of proton conduction mechanisms in electrolytes for high drain applications. Abstracts of Papers of the American Chemical Society, PHYS-P170 (2000).

Kreuer, K.-D. siehe Bozkurt, A.; Ise, M.; Münch, W.; Paddison, S.J.; Spaeth, M.

Kroener, R., K. Peters, H.G. von Schnering and R. Nesper: Crystal structure of the clathrate-II, $\text{Ba}_{16}\text{Ga}_{32}\text{Sn}_{104}$. *Zeitschrift für Kristallographie – New Crystal Structures* **215**, 197 (2000).

Kronmüller, H. and R. Hertel: Computational micromagnetism of magnetic structures and magnetisation processes in small particles. *Journal of Magnetism and Magnetic Materials* **215-216**, 11-17 (2000).

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).
- Huge longitudinal resistance maxima at fractional filling factors. *Physica* **E6**, 8-13 (2000).

Krstic, V., G.T. Kim, J.G. Park, D.S. Suh, Y.W. Park, S. Roth and M. Burghard: Role of the metal in contacting single-walled carbon nanotubes. *AIP Conference Proceedings* **544**, 367-370 (2000).

Krstic, V., J. Muster, G.S. Duesberg, G. Philipp, M. Burghard and S. Roth: Electrical transport in single-walled carbon nanotube bundles embedded in Langmuir-Blodgett monolayers. *Synthetic Metals* **110**, 245-249 (2000).

Krstic, V., S. Roth and M. Burghard: Phase breaking in three-terminal contacted single-walled carbon nanotube bundles. *Physical Review* **B62**, R16353-R16355 (2000).

Krstic, V. siehe Burghard, M.; Kim, G.T.; Muster, J.

Kuhl, J. siehe Ammerlahn, D.; Christ, A.; Forstner, J.; Giessen, H.; Hebling, J.; Klose, M.; Korona, K.P.; Stevens, T.E.

Kuhnke, K. siehe Gambardella, P.

Kukushkin, I.V., J.H. Smet, K. von Klitzing and K. Eberl: Optical investigation of spin-wave excitations in fractional quantum hall states and of interaction between composite fermions. *Physical Review Letters* **85**, 3688-3691 (2000).

Kukushkin, I.V. siehe Akimov, M.Y.; Gubarev, S.I.; Kulik, L.V.; Volkov, O.V.

Kulic, M.L. and O.V. Dolgov: The electron-phonon interaction renormalized by strong correlations: the way to HTS. *Physica* **C341-348**, 111-112 (2000).

Kulik, L.V., I.V. Kukushkin, V.E. Kirpichev, K.von Klitzing and K. Eberl:

- Interaction between intersubband Bernstein modes and coupled plasmon-phonon modes. *Physical Review* **B61**, 12717-12720 (2000).
- Magnetic-field-induced dispersion anisotropy of intersubband excitations in an asymmetrical quasi-two-dimensional electron system. *Physical Review* **B61**, 1712-1715 (2000).

Kun Liu, S. Roth, G.S. Duesberg, G.T. Kim, D. Popa, K. Mukhopadhyay, R. Doome and J.B. Nagy: Antilocalization in multiwalled carbon nanotubes. *Physical Review* **B61**, 2375-2379 (2000).

Kutrowski, M., T. Wojtowicz, S. Kret, G. Karczewski, J. Kossut, R. Fiederling, B. König, D.R. Yakovlev, W. Ossau, A. Waag, V.P. Kochereshko, F.J. Teran and M. Potemski: Magneto-optical properties of graded quantum well structures made of diluted magnetic semiconductors. *NATO Sciences Series 3* **81**, 237-246 (2000).

Kvon, Z.D., T.I. Baturina, R.A. Donaton, M.R. Baklanov, M.N. Kostrikin, K. Maex, E.B. Olshanetsky and J.C. Portal:

- Maki-Thompson corrections in thin superconducting PtSi films nearby T_c . *Physica* **B284**, 959-960 (2000).
- Proximity effects and Andreev reflection in a mesoscopic SNS junction with perfect NS interfaces. *Physical Review* **B61**, 11340-11343 (2000).

Kvon, Z.D., E.B. Olshanestkii, M.I. Katkov, A.E. Plotnikov, A.I. Toropov, N.T. Moshegov, M. Casse and J.C. Portal: Quantum Hall effect in a single-mode wire. *Soviet Physics Semiconductors* **33**, 1238-1240 (1999).

Langenbuch, M., R. Hennig, M. Suhrke, U. Rössler, C. Albrecht, J.H. Smet and D. Weiss: Minibands, magnetic breakdown, and novel magnetoresistance oscillations in short-period lateral superlattices. *Physica* **E6**, 565-568 (2000).

Lastras-Martinez, L.F., T. Ruf, M. Konuma, M. Cardona and D.E. Aspnes: Isotopic effects on the dielectric response of Si around the E1 gap. *Physical Review* **B61**, 12946-12951 (2000).

Lee, J.D.: Low-energy valence photoemission in Ce compounds: Beyond the Anderson impurity model. *Physical Review* **B61**, 8062-8072 (2000).

Lee, J.S., S. Adams and J. Maier:

- Defect chemistry and transport characteristics of β -AgI. *Physics and Chemistry of Solids* **61**, 1607-1622 (2000).
- Transport and phase transition characteristics in AgI:Al₂O₃ composite electrolytes – Evidence for a highly conducting 7-layer AgI polytype. *Journal of the Electrochemical Society* **147**, 2407-2418 (2000).
- A mesoscopic heterostructure as the origin of the extreme ionic conductivity in AgI:Al₂O₃. *Solid State Ionics* **136-137**, 1261-1266 (2000).

Lee, J.S. and J. Maier: Ion transport in pure and heterogeneously doped AgI. In: *Mass and Charge Transport in Inorganic Materials*, (Eds.) P. Vencenzini and V. Buscaglia. Techna, Korea 2000, 67-74.

Lee, S.H., S.J. Yoon, G.J. Lee, H.S. Kim, C.H. Yo, K. Ahn, D.H. Lee and K.H. Kim: Electrical and magnetic properties of NiCr_xFe_{2-x}O₄ spinel ($0 \leq x \leq 0.6$). *Materials Chemistry and Physics* **61**, 147-152 (1999).

Leifeld, O., A. Beyer, E. Müller, D. Grutzmacher and K. Kern: Nucleation of Ge quantum dots on the C-alloyed Si(001) surface. *Thin Solid Films* **380**, 176-179 (2000).

Lembrikov, B.I. siehe Schüssler, A.S.

Leitao, J.P., M.C. Carmo, M.O. Henry, E. McGlynn, J. Bolmann and S. Lindner: The 777 meV photoluminescence band in Si:Pt. *Physica* **B274**, 420-423 (1999).

Leitch, A.W.R. and J. Weber:

- Hydrogen molecules in GaAs after hydrogen plasma treatment. *Physica* **B274**, 743-745 (1999).
- 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).

Leonhardt, M., K. Sasaki, J. Claus and J. Maier: Bulk kinetics and interfacial effects in oxide functional ceramics. *Fortschrittsberichte der Deutschen Keramischen Gesellschaft* **15**, 319-329 (2000).

Leonhardt, S., J. Albrecht, R. Warthmann, H.-U. Habermeier and H. Kronmüller: Influence of substrate irradiation on critical current density and microstructure in YBCO thin films. *Physica* **C341**, 1979-1980 (2000).

Leonhardt, S., R. Warthmann, J. Albrecht, C. Jooss, H. Kronmüller, T. Haage, J. Zegenhagen and H.-U. Habermeier: Anisotropic flux pinning in thin YBCO-films by substrate modifications. *Physica* **C332**, 214-218 (2000).

Leonhardt, S. siehe Albrecht, J.

Lescop, C., D. Luneau, E. Belorizky, P. Fries, M. Guillot and P. Rey: Unprecedented antiferromagnetic metal-ligand interactions in gadolinium-nitroxide derivatives. *Inorganic Chemistry* **38**, 5472 (1999).

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

Li, X.H., H.-U. Habermeier and P.X. Zhang: Laser-induced off-diagonal thermoelectric voltage in La_{1-x}Ca_xMnO₃ thin films. *Journal of Magnetism and Magnetic Materials* **211**, 232-237 (2000).

Liang, B., I. Kleinschroth, B.G. Shen and H. Kronmüller: Magnetic properties of Sm₂Co_{17-x}Ga_x (x=0-7) compounds. *Journal of Applied Physics* **87**, 5314-5317 (2000).

Liang, B. siehe Keimer, B.; Lin, C.T.; Sun, Z.-G.; Wang, J.-Y.

Lin, C.T.:

- Study of growth spirals and screw dislocations on YBa₂Cu₃O_{7-δ} single crystals. *Physica* **C337**, 312-316 (2000).
- Growth of Bi_{2+x}Sr_{2-x}Ca_{n-1}Cu_nO_{2n+4+δ} crystals using travelling solvent floating zone method. *Journal of synthetic crystals* **29**, 127-129 (2000).

Lin, C.T., M. Freiberg and E. Schönherr: Growth and oxygenating studies of Bi_{2+x}Sr_{2-x}Ca_{n-1}Cu_nO_{2n+4+δ} single crystals. *Physica* **C337**, 270-276 (2000).

Lin, C.T., B. Liang, M. Freiberg, K. Peters and E. Schönherr: Investigation on crystal growth of Bi-Sr-Cu-O system under high oxygen pressure using TSFZ method. *Physica* **C341**, 541-542 (2000).

Lin, C.T. siehe Bernhard, C.; Etrillard, J.; Keimer, B.; Richard, P.; Zheng, D.N.

Lin, N., N. Hellgren, M.P. Johansson, L. Hultman, R. Erlandsson and J.E. Sundgren: In situ scanning tunneling microscopic and spectroscopic investigation of magnetron-sputtered C and CN thin films. *Physical Review* **B61**, 4898-4903 (2000).

Linden, S. siehe Forstner, J.; Giessen, H.

Lipinski, M.O., H. Schuler, O.G. Schmidt, K. Eberl and N.Y. Jin-Phillipp: Strain-induced material intermixing of InAs quantum dots in GaAs. *Applied Physics Letters* **77**, 1789-1791 (2000).

Lipinski, M., H. Schuler, P. Veit, R. Clos and K. Eberl: Systematic growth studies of narrow constrictions formed by molecular beam epitaxy on prepatterned substrates. *Materials Science & Engineering* **B4**, 25-31 (2000).

Lipinski, M.O., N.Y. Jin-Phillipp, O.G. Schmidt and K. Eberl: MBE growth conditions for 1.3 μm light emission from InAs quantum dots. In: 2000 International Conference on Indium Phosphide and Related Materials: Conference Proceedings. IEEE, Piscataway 2000, 215-218.

Lippert, G., J. Hutter and M. Parrinello: The Gaussian and augmented-plane-wave density functional method for ab initio molecular dynamics simulations. Theoretical Chemistry Accounts **103**, 124-140 (1999).

Liu, A.M., A.L. Barra, H. Rubin, G.Z. Lu and A. Graslund: Heterogeneity of the local electrostatic environment of the tyrosyl radical in Mycobacterium tuberculosis ribonucleotide reductase observed by high-field electron paramagnetic resonance. Journal of the American Chemical Society **122**, 1974-1978 (2000).

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.S. Duesberg, G.T. Kim, D. Popa, K. Mukhopadhyay, R. Doome and J.B. Nagy: Anti-localization in multiwalled carbon nanotubes. Physical Review **B61**, 2375-2379 (2000).

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.X., A.R. Goñi, C. Manz, K. Syassen, K. Brunner and K. Eberl: High-pressure photoluminescence studies of pseudomorphic $\text{Si}_{1-y}\text{C}_y/\text{Si}$ MQW structures. Physica Status Solidi **B219**, 103-114 (2000).

Liu, Z.X., O.G. Schmidt, U.D. Venkateswaran, K. Eberl and K. Syassen: High pressure photoluminescence studies of carbon-induced germanium quantum dots grown on Si. Semiconductor Science and Technology **15**, 155-159 (2000).

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).

Loa, I., U. Schwarz, M. Hanfland, R.K. Kremer and K. Syassen: Crystal structure and optical spectroscopy of NaV_2O_5 under pressure. Physica Status Solidi **B215**, 709-714 (1999).

Loa, I. siehe Duesberg, G.S.; Grzechnik, A.; Kremer, R.K.; Schwarz, U.; Takemura, K.; Ves, S.

Lockwood, D.J., M. Potemski and M.L. Sadowski: Electronic raman scattering from weakly bound electrons in lightly doped n-type GaAs. In: Proceedings of the 8th International Symposium on Luminescence Materials and Quantum Confinement, (Eds.) S. Bandyopadhyay *et al.* Electrochemical Society, Pennington 2000, 96-104.

Löffelholz, J., J. Engering and M. Jansen: Sol-gel-process in the ammono-system – a novel access to silicon based nitrides. Zeitschrift für Anorganische und Allgemeine Chemie **626**, 963-968 (2000).

Lynn, J.W., B. Keimer, C. Ulrich, C. Bernhard and J.L. Tallon: Antiferromagnetic ordering of Ru and Gd in superconducting $\text{RuSr}_2\text{GdCu}_2\text{O}_8$. Physical Review **B61**, 14964-14967 (2000).

Maier, J.:

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

– Grain boundary effects in ionic and mixed conductors. Solid State Phenomena **67**, 45-54 (1999).

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

– Electrochemical sensor principles for redox-active and acid-base-active gases. Sensors and Actuators **B65**, 199-203 (2000).

- Point defect thermodynamics: Macro- vs. nanocrystals. *Electrochemistry* **68**, 395-402 (2000).
- Point-defect thermodynamics and size effects. *Solid State Ionics* **131**, 13-22 (2000).
- Interaction of oxygen with oxides: How to interpret measured effective rate constants? *Solid State Ionics* **135**, 575-588 (2000).
- Interfaces. In: *Oxygen Ion and Mixed Conductors and Their Technological Application*, (Eds.) H.J. Tuller *et al.* Kluwer, Dordrecht 2000, 75-121.
- Electrochemical sensors. In: *Oxygen Ion and Mixed Conductors and Their Technological Application*, (Eds.) H.J. Tuller *et al.* Kluwer, Dordrecht 2000, 399-421.

Maier, J., J. Jamnik and M. Leonhardt: Kinetics of oxygen stoichiometry changes. *Solid State Ionics* **129**, 25-32 (2000).

Maier, J. and W. Münch: Thermal destiny of an ionic crystal. *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 264-269 (2000).

Maier, J. siehe Brichzin, V.; Chandra, A.; Claus, J.; Fleig, J.; Guo, X.; Heifets, E.; Ise, M.; Jamnik, J.; Kreuer, K.-D.; Lee, J.S.; Leonhardt, M.; Li, R.K.; Puin, W.; Rodewald, S.; Sasaki, K.; Sata, N.; Schnelle, W.; Spaeth, M.; Zimmer, F.

Makarovskii, O.N., L. Smreka, P. Vasek, T. Jungwirth, M. Cukr and L. Jansen: Magnetoresistance and electronic structure of asymmetric GaAs/Al_{0.3}Ga_{0.7}As double quantum wells in an in-plane or tilted magnetic field. *Physical Review* **B62**, 10908-10913 (2000).

Malchus, M. and M. Jansen: Electrocrystallization of PrO₂ and TbO_{2-x} from alkali hydroxide melts and characterization of the fluorite-related TbO_{2-x}. *Solid State Sciences* **2**, 65-70 (2000).

Malinowski, N., W. Branz, I.M.L. Billas, M. Heinebrodt, F. Tast and T.P. Martin: Cluster assemblies of metal-coated fullerenes. *European Physical Journal* **D9**, 41-44 (1999).

Malkina, O.L., J. Vaara, B. Schimmelpfennig, M. Munzarova, V.G. Malkin and M. Kaupp: Density functional calculations of electronic g-tensors using spin-orbit pseudopotentials and mean-field all-electron spin-orbit operators. *Journal of the American Chemical Society* **122**, 9206-9218 (2000).

Maniv, T. siehe Itskovsky, M.A.

Manjon, F.J., A. Segura and V. Munoz: High density photoluminescence induced by laser pulse excitation in InSe under pressure. *High Pressure Research* **18**, 81-87 (2000).

Manz, Y.M., O.G. Schmidt and K. Eberl: Room-temperature lasing via ground state of current-injected vertically aligned InP/GaInP quantum dots. *Applied Physics Letters* **76**, 3343-3345 (2000).

Manz, Y. siehe Christ, A.; Eberl, K.; Hayne, M.

Martin, A.A., M. Cardona, S. Jandl, V. Nekvasil and T. Wolf: Optical study of crystal-field excitation in (R)Ba₂Cu₃O_{7- δ} single crystals. *Physica Status Solidi* **B220**, 475-482 (2000).

Martin, T.P.: From atoms to solids. *Solid State Ionics* **131**, 3-12 (2000).

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

Martinez, G.: Magneto-optical properties and potential fluctuations in high mobility 2D electron gas. *NATO Science Series 3* **81**, 45-63 (2000).

Martinez-Pastor, J., J. Camacho, C. Rudamas, A. Cantarero, L. Gonzalez and K. Syassen: Band alignments in In_xGa_{1-x}P/GaAs heterostructures investigated by pressure experiments. *Physica Status Solidi* **A178**, 571-576 (2000).

Martonak, R., C. Molteni and M. Parrinello: Ab initio molecular dynamics with a classical pressure reservoir: Simulation of pressure-induced amorphization in a Si₃₅H₃₆ cluster. *Physical Review Letters* **84**, 682-685 (2000).

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

Marx, D., M.E. Tuckerman and M. Parrinello: Solvated excess protons in water: quantum effects on the hydration structure. Journal of Physics: Condensed Matter **12**, A153-A159 (2000).

Massobrio, C., P. Rabu, M. Drillon and C. Rovira: Structural properties, electron localization and magnetic behavior of copper hydroxonitrate: A density functional study. Journal of Physical Chemistry **B103**, 9387-9391 (1999).

Mattausch, Hj., O. Oeckler, R.K. Kremer and A. Simon: Structure, twinning, and properties of $Ce_4Br_3C_4$. Zeitschrift für Anorganische und Allgemeine Chemie **626**, 518-523 (2000).

Mattausch, Hj., O. Oeckler and A. Simon: Crystal structure of tetraterbium hexabromide monoboride, Tb_4Br_6B . Zeitschrift für Kristallographie – New Crystal Structures **215**, 199-199 (2000).

Mattausch, Hj., E. Warkentin, O. Oeckler and A. Simon: $Gd_{10}I_{16}(C_2)_2$ and $Gd_{10}Br_{15}B_2 / Tb_{10}Br_{15}B_2$ cluster compounds with M_{10} twin octahedra. Zeitschrift für Anorganische und Allgemeine Chemie **626**, 2117-2124 (2000).

Mattausch, Hj. siehe Ahn, K.; Dashjav, E.; Jardin, C.; Kremer, R.K.

Mayaffre, H., M. Horvatic, C. Berthier, M.H. Julien, P. Ségransan, L. Lévy and O. Piovesana: NMR evidence for a ‘generalized spin-Peierls transition’ in the high-magnetic-field phase of the spin Ladder $Cu_2(C_5H_{12}N_2)_2Cl_4$. Physical Review Letters **85**, 4795-4798 (2000).

Meister, M., J. Weber, M. Furtsch and H. Muenzel: Photoluminescence measurements of microcrystalline silicon. Solid State Phenomena **67**, 155-160 (1999).

Melinte, S., N. Freytag, M. Horvatic, C. Berthier, L.P. Levy, V. Bayot and M. Shayegan: NMR determination of 2D electron spin polarization at $\mu = 1/2$. Physical Review Letters **84**, 354-357 (2000).

Mendels, F., A. Keren, L. Limot, M. Mekata, G. Collin and M. Horvatic: Ga NMR study of the local susceptibility in Kagomé-based $SrCr_8Ga_4O_{19}$: pseudogap and paramagnetic defects. Physical Review Letters **85**, 3496-3499 (2000).

Mews, A., F. Koberling, T. Basche, G. Philipp, G.S. Duesberg, S. Roth and M. Burghard: Raman imaging of single carbon nanotubes. Advances in Physics **12**, 1210-1214 (2000).

Millange, F., S. deBrion and G. Chouteau: Charge, orbital, and magnetic order in $Nd_{0.5}Ca_{0.5}MnO_3$. Physical Review **B62**, 5619-5626 (2000).

Millet, P., F. Mila, F.C. Zhang, M. Mambrini, A.B. VanOosten, V.A. Pashchenko, A. Sulpice and A. Stepanov: Biquadratic interactions and spin-Peierls transition in the spin-1 chain $LiVGe_2O_6$. Physical Review Letters **83**, 4176-4179 (1999).

Mohr, M., D. Marx, M. Parrinello and H. Zipse: Solvation of radical cations in water-reactive or unreactive solvation?. Chemistry: A European Journal **6**, 4009-4015 (2000).

Molteni, C., I. Frank and M. Parrinello: An excited state density functional theory study of the rhodopsin chromophore. Journal of the American Chemical Society **121**, 12177-12183 (1999).

Monarkha, Y.P., E. Teske and P. Wyder: Coulomb effects on the quantum cyclotron resonance from a two-dimensional electron liquid with extremely narrow Landau levels. Physical Review **B62**, 2593-2604 (2000).

Monarkha, Y. siehe Teske, E.

Monge, M.A., A.I. Popov, C. Ballesteros, R. Gonzalez, Y. Chen, E.A. Kotomin: Formation of anion-vacancy clusters and nanocavities in thermochemically reduced MgO single crystals. Physical Review **B62**, 9299-9304 (2000).

Morello, A., A.G.M. Jansen, R.S. Gonnelli and S.I. Vedenev:

- Irreversibility line of overdoped $\text{Bi}_{2+x}\text{Sr}_{2-(x+y)}\text{Cu}_{1+y}\text{O}_{6\pm\delta}$ at ultralow temperatures and high magnetic fields. *Physical Review* **B61**, 9113-9117 (2000).
- 3D-melting features of the irreversibility line in overdoped $\text{Bi}_2\text{Sr}_2\text{CuO}_6$ at ultra-low temperature and high magnetic field. *Physica* **C341**, 1321-1322 (2000).

Mortensen, J.J. and M. Parrinello: A density functional theory study of a silica-supported zirconium monohydride catalyst for depolymerization of polyethylene. *Journal of Physical Chemistry* **B104**, 2901-2907 (2000).

Mossang, E., F. Debray, H. Jongbloets, W. Joss, G. Martinez, J.C. Picoche, A. Plante, P. Rub, P. Sala and P. Wyder: The Grenoble High Magnetic Field Laboratory as a user facility. *IEEE Transactions on Applied Superconductivity* **10**, 1538-1541 (2000).

Msall, M., W. Dietsche, K.J. Friedland and Q.Y. Tong: Images of the phonon propagation across twist-bonded crystals. *Physical Review Letters* **85**, 598-601 (2000).

Mudring, A.V. and M. Jansen: Base-induced disproportionation of elemental gold. *Angewandte Chemie, International Edition in English* **39**, 3066-3067 (2000).

Mudring, A.V., J. Nuss, U. Wedig and M. Jansen: Mixed valent gold oxides: Syntheses, structures, and properties of $\text{Rb}_5\text{Au}_3\text{O}_2$, $\text{Rb}_7\text{Au}_5\text{O}_2$, and $\text{Cs}_7\text{Au}_5\text{O}_2$. *Journal of Solid State Chemistry* **155**, 29-36 (2000).

Müller, U., W. Hoffbauer and M. Jansen: Short-range ordering in amorphous $\text{Si}_3\text{B}_3\text{N}_7$ as determined by multinuclear NMR spectroscopy. *Chemistry of Materials* **12**, 2341-2346 (2000).

Müller-Schwanneke, C., F. Jost, K. Marx, S. Lindenkreuz and K. von Klitzing: Offset reduction in silicon Hall sensors. *Sensors and Actuators* **A81**, 18-22 (2000).

Münch, W., K.-D. Kreuer, G. Seifertli and J. Majer:

- A quantum molecular dynamics study of proton diffusion in SrTiO_3 and CaTiO_3 . *Solid State Ionics* **125**, 39-45 (1999).
- Proton diffusion in perovskites: comparison between BaCeO_3 , BaZrO_3 , SrTiO_3 , and CaTiO_3 using quantum molecular dynamics. *Solid State Ionics* **136-137**, 183-189 (2000).

Münch, W. siehe Kreuer, K.-D.; Maier, J.

Mujica, C., J. Llanos, K. Peters, E.M. Peters and H.G. von Schnering: Synthesis, crystal structure, magnetic properties and thermal stability of $\text{Gd}(\text{ReO}_4)_3(\text{H}_2\text{O})_3$. *Boletín de la Sociedad Chilena de Química* **45**, 329-332 (2000).

Mujica, C., K. Peters, E.M. Peters and H.G. von Schnering: Crystal structure of trigadolinium(III) rhenium(VII) octaoxide, Gd_3ReO_8 . *Zeitschrift für Kristallographie – New Crystal Structures* **215**, 3 (2000).

Mundy, C.J., S. Balasubramanian, K. Bagchi, M.E. Tuckerman, G.J. Martyna and M.L. Klein: Nonequilibrium molecular dynamics. *Reviews in Computational Chemistry* **14**, 291-397 (2000).

Mundy, C.J., J. Hutter and M. Parrinello: Microsolvation and chemical reactivity of sodium and water clusters. *Journal of the American Chemical Society* **122**, 4837-4838 (2000).

Munzar, D., C. Bernhard, A. Gornik, J. Humlicek and M. Cardona: Phonon anomalies in the far-infrared c-axis conductivity of underdoped $\text{YBa}_2\text{Cu}_3\text{O}_y$ as evidence for the intra-bilayer Josephson effect. *Journal of Low Temperature Physics* **117**, 1049-1053 (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).

Murakami, H., T. Ogami, Y. Qi, K. Sakai, T. Ito, I. Shigaki, A.G.M. Jansen and P. Wyder: Problems in point-contact tunneling study on BSCCO. *Physica* **B284**, 573-574 (2000).

Murzin, S.S., A.G.M. Jansen and E.G. Haanappel: Quasi-one-dimensional transport in the extreme quantum limit of heavily doped n-InSb. *Physical Review* **B62**, 16645-16652 (2000).

Muster, J., G.S. Duesberg, S. Roth and M. Burghard: Application of scanning force microscopy in nanotube science. *Applied Physics* **A69**, 261-267 (1999).

Muster, J., G.T. Kim, V. Krstic, J.G. Park, Y.W. Park, S. Roth and M. Burghard: Electrical transport through individual vanadium pentoxide nanowires. *Advances in Physics* **12**, 420-424 (2000).

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.; Kim, G.T.; Krstic, V.

Nachtwei, G., I.I. Kaya, K.v. 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., I.I. Kaya, B.E. Sagol, K. von Klitzing and K. Eberl: Spatially resolved measurements of hot-electron generation and relaxation at the breakdown of the quantum Hall effect. *Physica* **B272**, 127-129 (1999).

Naidyuk, Y.G., O.E. Kvitnitskaya, A.G.M. Jansen, C. Geibel, A.A. Menovsky and P. Wyder: Point contacts of URu₂Si₂ and UPd₂A₁₃ in high magnetic fields. *Physica* **B284**, 1293-1294 (2000).

Negoita, V., D. Hackworth, D.W. Snoke and K. Eberl: Subhertz spectral fluctuations from high-density excitons in coupled quantum wells. *Optics Letters* **25**, 572-574 (2000).

Negoita, V., D.W. Snoke and K. Eberl:

- Huge density-dependent blueshift of indirect excitons in biased coupled quantum wells. *Physical Review* **B61**, 2779-2783 (2000).
- Strong red shift of indirect exciton luminescence in low magnetic field. *Solid State Communications* **113**, 437-441 (2000).
- Stretching quantum wells: A method for trapping free carriers in GaAs heterostructures. *Applied Physics Letters* **75**, 2059-2061 (1999).

Nicholas, R.J., M. Lakrimi, B. Kardynal, S. Khym, N.J. Mason, J. Rehman, K. Takashina, P.J. Walker, D.M. Symons, D.K. Maude and J.C. Portal: A digital quantum Hall effect. *Physica* **E6**, 836-839 (2000).

Nicholas, R.J., K. Takashina, M. Lakrimi, B. Kardynal, S. Khym, N.J. Mason, D.M. Symons, D.K. Maude and J.C. Portal: Metal-insulator oscillations in a two-dimensional electron-hole system. *Physical Review Letters* **85**, 2364-2367 (2000).

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

Nunez-Regueiro, M.D., E. Chappel, G. Chouteau and C. Delmas:

- Magnetic structure of Li_{1-x}Ni_{1+x}O₂. *European Physical Journal* **B16**, 37-41 (2000).
- Magnetic structure of Li_{1-x}Ni_{1+x}O₂. *Molecular Crystals and Liquid Crystals Science and Technology* **A341**, 177-182 (2000).

Oeckler, O. and A. Simon: Redetermination of the crystal structure of copper dibromide, CuBr₂. *Zeitschrift für Kristallographie – New Crystal Structures* **215**, 13 (2000).

Oeckler, O. siehe Dashjav, E.; Jardin, C.; Mattausch, Hj.; Schmidt, R.

Oku, T., A. Carlsson, J.O. Bovin, C. Svensson, L.R. Wallenberg, C. Linke and M. Jansen: Modulated structure of Ag_2SnO_3 studied by high-resolution electron microscopy. *Acta Crystallographica* **B56**, 363-368 (2000).

Oles, A.M. and L.F. Feiner: Spin excitations in doped manganites. *Acta Physica Polonica* **A97**, 193-196 (2000).

Oles, A.M., L.F. Feiner and J. Zaanen: Quantum melting of magnetic long-range order near orbital degeneracy: Classical phases and Gaussian fluctuations. *Physical Review* **B61**, 6257-6287 (2000).

Olguin, D., A. Cantarero and M. Cardona: Temperature and isotopic mass dependence of the direct band gap in semiconductors: LCAO calculations. *Physica Status Solidi* **B220**, 33-39 (2000).

Oliva, A.B., M. Biltcliffe, F. Corrado, G. Aubert and W. Joss: The 8 T – 1.1 m bore superconducting solenoid for the 40 T hybrid magnet of the Grenoble High Magnetic Field Laboratory. *IEEE Transactions on Applied Superconductivity* **10**, 432-438 (2000).

Olshanetsky, E.B., M. Casse, Z.D. Kvon, G.M. Gusev, L.V. Litvin, A.V. Plotnikov, D.K. Maude and J.C. Portal:

- Symmetric, gated, ballistic rings as tunable electron interferometers. *Physica* **E6**, 322-326 (2000).
- Symmetric, gated, ballistic rings as tunable electron interferometers. In: Proceedings of the Thirteenth International Conference on Electronic Properties of Two-Dimensional Systems, (Ed.) P. Hawrylak. North-Holland, Amsterdam 1999, 129-132.

Oppermann, H., M. Schmidt, H. Bruckner, W. Schnelle and E. Gmelin: Chemical transport of bismuth oxide halides BiOX ($X = \text{Cl, Br, I}$) with X_2 , HX and H_2O , and determination of the molar enthalpies of BiOX . *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 937-946 (2000).

Ortiz, G., M. Harris and P. Ballone: Reply on comment on: ‘Zero temperature phases of the electron gas’ – Ortiz *et al.* *Physical Review Letters* **84**, 1843-1843 (2000).

Oshikiri, M. and F. Aryasetiawan: Quasiparticle energy calculations on II(Zn)-VI(O, S, Se) and III(Al,Ga)-V(N) semiconductors in the wurtzite structure. *Journal of the Physical Society of Japan* **69**, 2113-2120 (2000).

Ostanin, S.A., V.Y. Trubitsin, S.Y. Savrasov, M. Alouani and H. Dreyssé: Calculated Nb superconducting transition temperature under hydrostatic pressure. *High Pressure Research* **17**, 393-400 (2000).

Oswald, J., K. Kuldova, J. Zeman, E. Hulicius, S. Jullian and M. Potemski: Magneto-photoluminescence study of energy levels of self-organised InAs/GaAs quantum dots. *Materials Science & Engineering* **B69**, 318-323 (2000).

Oudovenko, V.S., S.Y. Savrasov and O.K. Andersen: On the Fermi surface geometry and antiferromagnetism of $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$. *Physica* **C336**, 157-161 (2000).

Ovchinnikov, Y.N. and A.M. Dyugaev: The conductivity of the two component system of the chessboard type. *Journal of Experimental and Theoretical Physics* **90**, 881-885 (2000).

Paddison, S.J., G. Bender, K.-D. Kreuer, N. Nicoloso and T.A. Zawodzinski: The microwave region of the dielectric spectrum of hydrated Nafion(R) and other sulfonated membranes. *Journal of New Materials for Electrochemical Systems* **3**, 291-300 (2000).

Pardi, L.A., A.K. Hassan, F.B. Hulsbergen, J. Reedijk, A.L. Spek and L.C. Brunel: Direct determination of the single-ion anisotropy in a one-dimensional magnetic system by high-field EPR spectroscopy; Synthesis, EPR, and X-ray structure of $\text{Ni}_x\text{Zn}_{1-x}(\text{C}_2\text{O}_4)(\text{dmiz})_2[x = 0.07]$. *Inorganic Chemistry* **39**, 159-164 (2000).

Park, J.G. siehe Kim, G.T.; Krstic, V.; Muster, J.

Park, J.H. siehe Allen, J.W.

Parrinello, M.: Simulating complex systems without adjustable parameters. *Computing in Science & Engineering* **2**, 22-27 (2000).

Parrinello, M. siehe Benoit, M.; Berghold, G.; Billas, I.M.L.; Boero, M.; Bruge, F.; Ceresoli, D.; Frank, I.; Geissler, P.L.; Ikeda, T.; Kaupp, M.; Krack, M.; Lippert, G.; Martonak, R.; Marx, D.; Mohr, M.; Molteni, C.; Mortensen, J.J.; Mundy, C.J.; Putrino, A.; Qteish, A.; Raugel, S.; Romero, A.H.; Rousseau, R.; Rovira, C.; Röthlisberger, U.; Silvestrelli, P.L.; Zimmer, F.

Pashchenko, V.A., S. Huant, A.A. Stepanov and P. Wyder: Copper antiferromagnetic resonance in Gd_2CuO_4 : Evidence for coherent crystal-structure distortions. *Physical Review* **B61**, 6889-6895 (2000).

Pashchenko, V.A., A.G.M. Jansen, M.I. Kobets, E.N. Khatsko and P. Wyder: ESR study of the Tm^{3+} ions in $\text{KTm}(\text{MoO}_4)_2$. *Physical Review* **B62**, 1197-1202 (2000).

Pashchenko, V.A. siehe Choukroun, J.; Millet, P.

Peaker, A.R., J.H. Evans-Freeman, P.Y.Y. Kan, I.D. Hawkins, J. Terry, C. Jeynes and L. Rubaldo: Vacancy-related defects in ion implanted and electron irradiated silicon. *Materials Science & Engineering* **B71**, 143-147 (2000).

Peaker, A.R., J.H. Evans-Freeman, P.Y.Y. Kan, L. Rubaldo, I.D. Hawkins, K.D. Vernon-Parry and L. Dobaczewski: Hydrogen reactions with electron irradiation damage in silicon. *Physica* **B274**, 243-246 (1999).

Pederson, M.R. and N. Laouini: Properties of the TDAE molecule within density-functional theory. *Journal of Cluster Science* **10**, 557-571 (1999).

Penning, F.C., O. Tress, H. Bluyssen, E. Teske, M. Seck, P. Wyder and V.B. Shikin: Phenomenological line-shape analysis of cyclotron-resonance-induced conductivity of electrons on liquid helium. *Physical Review* **B61**, 4530-4533 (2000).

Petchsingh, C., R.J. Nicholas, A.J.L. Poulter, V.J. Hales, N.J. Mason and P.J. Walker: Cyclotron resonance in an asymmetric electron-hole InAs/GaSb DHET structure. *Physica* **E6**, 660-663 (2000).

Peters, K., E.M. Peters, M. Ach and H. Quast:

- Crystal structure of 4,5,2',3'-tetrahydro-4-(1,1-dimethylethyl)-1,1',3'-trimethylspiro-[1H][1,2,3]-triazole-5,2'-[1H]-benzimidazole, $[\text{C}_6\text{H}_4\text{N}_2(\text{CH}_3)_2]\text{C}[\text{CHN}_3(\text{CH}_3)(\text{C}_4\text{H}_9)]$.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 297-298 (2000).
- Crystal structure of 4,5,2',3'-tetrahydro-4,4,1',3'-tetramethyl-1-phenyl-spiro[1H][1,2,3]-triazole-5,2'-[1H]-perimidine, $[\text{C}_{10}\text{H}_6\text{N}_2(\text{CH}_3)_2]\text{C}[\text{CN}_3(\text{CH}_3)_2(\text{C}_6\text{H}_5)]$.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 299-300 (2000).
- Crystal structure of 1,3-dimethyl-2-[1-methyl-1-(3-methyl-1-triazeno)-ethyl]benzimidazolium hexafluorophosphate, $[\text{C}_7\text{H}_4\text{N}_2(\text{CH}_3)_2\text{C}(\text{CH}_3)_2\text{N}_3\text{HCH}_3]^+ [\text{PF}_6]^-$.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 301-302 (2000).

Peters, K., E.M. Peters, W. Adam, P. Kövér, A. Lévai and T. Patonay:

- Crystal structure of [1S,2S]-cis-6-chloro-2-methyl-1-thiochroman-4-one 1-oxide, $\text{C}_9\text{H}_6\text{SO}_2(\text{CH}_3)\text{Cl}$.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 217-218 (2000).
- Crystal structure of [1S*,2R*]-trans-6-chloro-2-methyl-1-thiochroman-4-one 1-oxide, $\text{C}_9\text{H}_6\text{SO}_2(\text{CH}_3)\text{Cl}$.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 219-220 (2000).

Peters, K., E.M. Peters, W. Adam and V. Marti: Crystal Structure of (c-4a, c-8a)-1,4,4a,5,8,8a-hexahydro-1,4,10,10-tetramethyl-r-1,c-4: t-5, t-8-dimethanophthalazine, $[\text{C}_7\text{H}_8][\text{C}_3\text{N}_2(\text{CH}_3)_4]$.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 210 (2000).

Peters, K., E.M. Peters, W. Adam, A. Pastor and T. Wirth: Crystal structure of [*S*-(*R*^{*},2*R*^{*},3*S*^{*})]-2,2-dimethyl-3-[(2,3-dimethyloxiranyl)carbonyl]-4-phenyloxazolidine, [(C₃H₃NO)(CH₃)₂(C₆H₅)]CO[C₂HO(CH₃)₂].
Zeitschrift für Kristallographie – New Crystal Structures **215**, 211-212 (2000).

Peters, K., E.M. Peters, J. Balthasar and H. Quast: Crystal structure of 4,5,2',3'-tetrahydro-4,4,1',3'-tetramethyl-1-(2-nitrophenyl)spiro-[1*H*][1,2,3]-triazole-5,2'-benzimidazole, [C₆H₄N₂(CH₃)₂]C[CN₃(C₆H₄NO₂)(CH₃)₂].
Zeitschrift für Kristallographie – New Crystal Structures **215**, 387-388 (2000).

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

– Crystal structure of (1*S*,14*S*)-(+)-2-oxabicyclo[12.4.0]octadecan-3,12-dione, (CH₂COC₈H₁₆COO)(C₆H₁₀).
Zeitschrift für Kristallographie – New Crystal Structures **215**, 39-40 (2000).

– Crystal structure of (1*S*,14*S*)-(+)-2-oxabicyclo[12.3.0]heptadecan-3,12-dione, (CH₂COC₈H₁₆COO)(C₅H₈).
Zeitschrift für Kristallographie – New Crystal Structures **215**, 41-42 (2000).

Peters, K., E.M. Peters, M. Braun and M. Christl: Crystal structure of (1*αα*,2*α*,5*β*,8*α*,8*αα*)-2,3,8-trichloro-1*a*,2,5,6,8,8*a*-hexahydro-5-methoxy-9-oxo-2,8-methano-1*H*-cyclopropa[4,5]cyclohepta-[1,2*b*]pyran, (C₉H₄OC₁₃)[C₃H₄O(OCH₃)].
Zeitschrift für Kristallographie – New Crystal Structures **215**, 47-48 (2000).

Peters, K., E.M. Peters, M. Braun, O. Deeg and M. Christl:

– Crystal structure of 2,3,5,6-tetrachlorospiro[cyclohexa-2,5-diene-1,8'-[7]oxabicyclo[4.2.1]non[2]ene]-4-one, [C₅C₁₄O]C[C₇H₁₀O].
Zeitschrift für Kristallographie – New Crystal Structures **215**, 223-224 (2000).

– Crystal structure of 2,3,5,6-tetrachloro-1',3',3*a*',4',5',7*a*'-hexahydrospiro[cyclohexa-2,5-diene-1,1'-benzo[*c*]furan]-4-one, [C₅C₁₄O]C[C₇H₁₀O].
Zeitschrift für Kristallographie – New Crystal Structures **215**, 225-226 (2000).

Peters, K., E.M. Peters, M. Braun, S. Wolff and M. Christl: Crystal structure of (4*αα*,4*bα*,10*αα*,10*bα*)-2,3,4*a*,10*b*-tetrachloro-1,4-dioxo-1,4,4*a*,4*b*,5,6,7,8,9,10,10*a*,10*b*-dodecahydrobenzo[3,4]cyclobuta[1,2]cyclooctane, (C₈H₁₄)(C₆C₁₄O₂).
Zeitschrift für Kristallographie – New Crystal Structures **215**, 45-46 (2000).

Peters, K., E.M. Peters, N.A. Braun and M.A. Ciufolini: Crystal structure of (2*S*,5*S*,10*S*)-2-benzyl-1-aza-4-oxatricyclo[8.3.0.0^{5,10}]tridecan-7,13-dione, C₁₁H₁₄NO₃(CH₂C₆H₅).
Zeitschrift für Kristallographie – New Crystal Structures **214**, 555-556 (1999).

Peters, K., E.M. Peters, R. Bruckner and G. Bringmann: Crystal structure of 2-(2'-methylpropanoyl)-1-tribromomethyl-1,2,3,4-tetrahydro-β-carboline, C₆H₄NHC₅H₅(CBr₃)N(C₄H₇O).
Zeitschrift für Kristallographie – New Crystal Structures **215**, 55-56 (2000).

Peters, K., E.M. Peters, R. Bruckner, D. Feineis and G. Bringmann: Crystal structure of 2-acetyl-1-tribromomethyl-1,2,3,4-tetrahydro-β-carboline, C₁₁H₁₀N₂(CBr₃)(COCH₃).
Zeitschrift für Kristallographie – New Crystal Structures **215**, 221-222 (2000).

Peters, K., E.M. Peters, C. Cohrs and M. Christl:

– Crystal structure of 4,5,6-trichloro-2,3-dihydro-1,2,3-metheno-1*H*-indene, (C₄H₄)(C₆HC₁₃).
Zeitschrift für Kristallographie – New Crystal Structures **215**, 51-52 (2000).

– Crystal structure of 6,7-dihydro-5,6,7-metheno-5*H*-cyclopenta[*d*]-pyridazin-1,4-dicarboxylic acid dimethyl ester, (C₄H₄)[C₄N₂(CO₂CH₃)₂].
Zeitschrift für Kristallographie – New Crystal Structures **215**, 53-54 (2000).

Peters, K., E.M. Peters, C. Cohrs, H. Reuchlein and M. Christl: Crystal structure of 6,7-dihydro-5,7-methano-5*H*-cyclopenta[*d*]pyridazin-1,4-dicarboxylic acid dimethyl ester, C₁₂H₁₂N₂O₄.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 601-602 (2000).

Peters, K., E.M. Peters, T. Dietz and H. Quast: Crystal structure of 3-ethyl-7,10-dimethyl-2-azatricyclo[5.2.1.0^{4,10}]deca-2,5,8-triene-*N*-tungsten(0)-pentacarbonyl, C₁₈H₁₇NO₅W.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 43-44 (2000).

Peters, K., E.M. Peters, S. Drinkuth, S. Groetsch and M. Christl: Crystal structure of (1 α ,8 β ,8 β , 8 $\alpha\beta$)-1-methyl-1,2,3,5,8,8a-hexahydro-5,8-epoxychinolin(N-B)boran, C₉H₁₀NO(CH₃)(BH₃).
Zeitschrift für Kristallographie – New Crystal Structures **215**, 600-600 (2000).

Peters, K., E.M. Peters, F. Fabris and O. DeLucchi: Crystal structure of di(1*R*,4*S*)-1,7,7'-trimethyl-3-bromobicyclo[2.2.1]hept-2-ene carboxylate, (C₁₀H₁₄Br)₂CO₃.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 32-32 (2000).

Peters, K., E.M. Peters, A.G. Griesbeck and W. Kramer: Crystal structure of (*S*)-3-(3,4-dimethoxyphenyl)-2-(1,3-dioxo-1,3-dihydroisindol-2-yl)-propionic acid methyl ester hydrate, 2(C₆H₄)[(CO)₂N]C₂H₃(COOCH₃)[C₆H₃(OH)₂]·H₂O
Zeitschrift für Kristallographie – New Crystal Structures **215**, 227-228 (2000).

Peters, K., E.M. Peters, J. Grimme and H. Quast: Crystal structure of trans-1,4,7,10-tetrakis(2,2-dimethylpropyloxy)-5,6,11,12-tetrahydro-5,12[1',2']:6,11[1'',2'']dibenzenodibenzo[*a,e*]cyclooctatetraene, [C₁₄H₈(C₅H₁₁O)₂]₂. Zeitschrift für Kristallographie – New Crystal Structures **215**, 307-308 (2000).

Peters, K., E.M. Peters, C. Günther and G. Bringmann: Crystal structure of 1-hydroxy-8-methoxy-3-methylnaphthalene, C₁₀H₅(OCH₃)(OH)(CH₃).
Zeitschrift für Kristallographie – New Crystal Structures **214**, 545-546 (1999).

Peters, K., E.M. Peters, M. Guthlein, T. Wirth and W. Adam: Crystal structure of [4*S*-[3(2*R**),3*Z*,5*R**],4*R**]-3-[2,5-bis(acetyloxy)-1-oxo-3-hexenyl]-2,2-dimethyl-4-phenyl-oxazolidine, [C₆H₇O(OCOCH₃)₂][C₃H₃NO(CH₃)₂C₆H₅].
Zeitschrift für Kristallographie – New Crystal Structures **215**, 383-384 (2000).

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, T. Hergenrother and H. Quast: Crystal structure of 3-methylamino-2,2-diphenyl-2*H*-azirine, (HNCH₃)C₂N(C₆H₅)₂.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 303-304 (2000).

Peters, K., E.M. Peters, A. Hetzheim and T. Irrgang:

- Crystal structure of 1-acetylamino-4-(4-bromophenyl)-2-(4-ethoxy-carbonylpiperazino)imidazole, C₃HN₂(C₆H₄Br)[C₄H₈N₂(COOC₂H₅)](NHCOCH₃).
Zeitschrift für Kristallographie – New Crystal Structures **214**, 561-562 (1999).
- Crystal structure of 2-amino-3-(4-fluorophenacyl)-5-methyl-1,3,4-oxadiazolium bromide, [C₂N₂O]⁺[NH₂][CH₃][(CH₂CO)C₆H₄F]Br⁻.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 381-382 (2000).

Peters, K., E.M. Peters, A. Hetzheim and P. Kockritz:

- Crystal structure of 1-acetyl-2-phenylcarbamoyl-methylsemicarbazide, CH₂N₂H(COCH₃)(CONH₂)(CONHC₆H₅).
Zeitschrift für Kristallographie – New Crystal Structures **214**, 557-558 (1999).
- Crystal structure of 2-amino-1,3,4-oxadiazole, C₂HN₂O(NH₂).
Zeitschrift für Kristallographie – New Crystal Structures **215**, 380 (2000).

Peters, K., E.M. Peters, J. Hinrichs and G. Bringmann:

- Crystal structure of di(1,3,5-trimethyl-5,6-dihydrobenzo[*k*]phenanthridin-6-yl)peroxide, [(C₁₀H₆)(CHONCH₃)(C₆H₂(CH₃)₂)₂].
Zeitschrift für Kristallographie – New Crystal Structures **215**, 57-58 (2000).

- Crystal structure of dinaphth[2,1-*c*:1',2'-*e*]thiepin-3-(5*H*)-thione, (C₁₀H₆)CS₂(CH₂)(C₁₀H₆).
Zeitschrift für Kristallographie – New Crystal Structures **215**, 395-396 (2000).

Peters, K., E.M. Peters, T. Irrgang and A. Hetzheim: Crystal structure of 2-methyl-4-phenyl-5-(4-methoxyphenyl)-7-pyrid-3-yl-methylaminoimidazo[1,5-*b*]pyridazine, C₆H₅N₃(CH₃)(C₆H₅)(C₆H₄OCH₃)(NHCH₂C₅H₄N).
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 (C₄H₉)₂Si[C₂Si(CH₃)₃]₂.
Zeitschrift für Kristallographie – New Crystal Structures **214**, 539-540 (1999).

Peters, K., E.M. Peters, I. Michieletto, F. Fabris and O. DeLucchi:

- Crystal structure of trans-(1*S*,2*S*)-di(carboxy-(1*S*,2*R*)-phenylcyclohexanol)bicyclo[2.2.2][3,4*a*:5,6*a*]dibenzooctane, C₁₆H₁₂[(COO)(C₆H₅)]₂.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 25-26 (2000).
- Crystal structure of trans-(1*S*,2*S*)-di(carboxy-(1*R*)-menthol)-bicyclo[2.2.2][3,4*a*:5,6*a*]dibenzooctane, C₁₆H₁₂[(COO)(C₆H₉(C₃H₇)(CH₃))]₂.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 27-28 (2000).
- Crystal structure of trans-(1*S*,2*S*)-di(carboxy-(1*R*,2*S*,5*R*)-8-phenolmenthol)bicyclo[2.2.2][3,4*a*:5,6*a*]dibenzooctane, C₁₆H₁₂[(COO)(C₆H₉CH₃)(C₃H₆C₆H₅)]₂.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 29-31 (2000).
- Crystal structure of (2*R*,3*S*)-2-*exo*-[1*R*-(2*S*-isopropyl-5*R*-methylcyclohexyloxy)]-2-*endo*,3-*exo*-dicarboxy-[1-(2*S*-isopropyl-5*R*-methylcyclohexyl)]bicyclo[2.2.1]hept-5-ene, C₇H₇(OC₁₀H₁₉)(COOC₁₀H₁₉)₂.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 229-230 (2000).

Peters, K., E.M. Peters, M. Ochse and G. Bringmann: Crystal structure of 1-bromo-6-hydroxy-4-isopropoxy-8-methyl-naphthalene, C₁₀H₄(OC₃H₇)(OH)(CH₃)Br.
Zeitschrift für Kristallographie – New Crystal Structures **214**, 541-542 (1999).

Peters, K., E.M. Peters, M. Oelgemoller, J.M. Cho and A. Griesbeck: Crystal structure of 3-hydroxy-3-(1-methylthioethyl)-2-methyl-2,3-dihydroisoindol-1-one, C₈H₄ONCH₃(OH)[CH(CH₃)SCH₃].
Zeitschrift für Kristallographie – New Crystal Structures **215**, 37-38 (2000).

Peters, K., E.M. Peters, D. Ostendorf and M. Weidenbruch: Crystal structure of bis(3,3-dimethylbut-1-ynyl)di-*tert*-butylsilane, (C₄H₉C₂)₂Si(C₄H₉)₂.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 35-36 (2000).

Peters, K., E.M. Peters, T. Pabst and G. Bringmann:

- Crystal structure of (*P*)-4,4'-di-*tert*-butyl-2,2',3,3'-tetramethoxy-6,6'-dimethylbiphenyl, {C₆H(OCH₃)₂(CH₃)[C(CH₃)₃]}₂.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 397-398 (2000).
- Crystal structure of 3,8-di-*tert*-butyl-4,9,10-trimethoxy-1-methyl-dibenzo[*b,d*]pyran-6-thione, C₆H(OCH₃)₂[C(CH₃)₃]CSO(C₆H)(CH₃)(OCH₃)[C(CH₃)₃].
Zeitschrift für Kristallographie – New Crystal Structures **215**, 399-400 (2000).
- Crystal structure of (*E*)-1,2-di-(2-bromo-5-*tert*-butyl-3,4-dimethoxyphenyl)ethene, {C₆H(OCH₃)₂[C(CH₃)₃]Br}₂C₂H₂.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 401-402 (2000).
- Crystal structure of (*P*,1''*S*,2''*R*,5''*S*)-menthyl 4,4'-di-*tert*-butyl-2'-hydroxy-2,3,3'-trimethoxy-6'-methyl-1,1'-biphenyl-6-carboxylate, C₆H(OCH₃)₂[C(CH₃)₃]CO₂(C₁₀H₁₉)C₆H(CH₃)(OH)(OCH₃)[C(CH₃)₃].
Zeitschrift für Kristallographie – New Crystal Structures **215**, 403-404 (2000).
- Crystal structure of 3,8-di-*tert*-butyl-4-methoxy-1-methyl-9,10-diphenylmethylidenedioxydibenzo[*b,d*]pyran-6-one, C₆H[O₂C(C₆H₅)₂](C₄H₉)COO(C₆H)(CH₃)(OCH₃)(C₄H₉).
Zeitschrift für Kristallographie – New Crystal Structures **215**, 603-604 (2000).

Peters, K., E.M. Peters, G. Philipp and H. Quast:

- Crystal structure of 1,6-di-*tert*-butyl-2-(*N*-*tert*-butylimino)-4,7a-di-methyl-2,7a-dihydro-1*H*-benzimidazole, $C_7H_2N_2(NC_4H_9)(C_4H_9)_2(CH_3)_2$. Zeitschrift für Kristallographie – New Crystal Structures **215**, 305-306 (2000).
- Crystal structure of (*E*)-2,5-di-*tert*-butyl-3-(*N*-*tert*-butylimino)-2,3-dihydroindazolyl, $C_7H_3N_2(NC_4H_9)(C_4H_9)_2$. Zeitschrift für Kristallographie – New Crystal Structures **215**, 385-386 (2000).

Peters, K., E.M. Peters, K.H. Ross, E. Spiegel and H. Quast: Crystal structure of hexamethyl [1,3-dimethyl-2,3-dihydro-1*H*-imidazole]-2-spiro-4'-[1'-*tert*-butyl-1',4'-dihydropyridine]-4,5,2',3',5',6'-hexacarboxylate, $C_{25}H_{33}N_3O_{12}$. Zeitschrift für Kristallographie – New Crystal Structures **215**, 291-292 (2000).

Peters, K., E.M. Peters, W. Saeb and G. Bringmann: Crystal structure of 1-bromo-5-isopropoxy-4-methoxy-2-methylnaphthalene, $C_{10}H_4(OC_3H_7)(OCH_3)(CH_3)Br$. Zeitschrift für Kristallographie – New Crystal Structures **215**, 389-390 (2000).

Peters, K., E.M. Peters, F. Samtleben and M. Christl: Crystal structure of (1 β ,4 α ,4 $\alpha\beta$,5 α ,8 α ,8 $\alpha\beta$)-octahydro-3-oxo-4-*syn*-9-diphenyl-1,4-ethano-5,8-methano-2-benzopyran-1-carboxylic acid methyl ester, $(C_7H_{10})[C_5H_3O_2(C_6H_5)_2(COOCH_3)]$. Zeitschrift für Kristallographie – New Crystal Structures **215**, 49-50 (2000).

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, $C_{10}H_{14}O_2(C_2H_3OBF_2)_2$. Zeitschrift für Kristallographie – New Crystal Structures **214**, 537-538 (1999).

Peters, K., E.M. Peters, S.B. Schambony and W. Adam: Crystal structure of [2*S*-[2 α (*S*^{*}),4 α]]-2-(1-hydroxy-2-methyl-2-propenyl)-*N*,4-diphenyl-3-oxazolidinecarboxamide, $C_3H_4NO(C_4H_7O)(C_6H_5)(CONHC_6H_5)$. Zeitschrift für Kristallographie – New Crystal Structures **215**, 213-214 (2000).

Peters, K., E.M. Peters, S. Schneider and G. Bringmann: Crystal structure of 1-bromo-2-methyl-dinaphtho-[2,1-*b*:1',2'-*d*]pyran-4-one, $C_{21}H_{10}O_2Br(CH_3)$. Zeitschrift für Kristallographie – New Crystal Structures **214**, 543-544 (1999).

Peters, K., E.M. Peters, H.G. von Schnering, W. Hönle, R. Schmidt and H. Binder:

- Crystal structure of pyridinogold(III) bromide, $[AuBr_2(C_5H_5N)_2]^+[AuBr_4]^- [AuBr_3(C_5H_5N)]_2$, a frozen-in autoionization system. Zeitschrift für Kristallographie – New Crystal Structures **215**, 413-414 (2000).
- Crystal structure of trichloro(3,3')-trimethylene-2,2'-biquinoline)gold(III) chloroform hemisolvate, $[(C_9H_5N)(CH_3)][(C_9H_6N)(CH_3)]AuCl_3 \cdot 0.5CHCl_3$ and of tribromo(3,3')-trimethylene-2,2'-biquinoline)gold(III) chloroform hemisolvate, $[(C_9H_5N)(CH_3)][(C_9H_6N)(CH_3)]AuBr_3 \cdot 0.5CHCl_3$. Zeitschrift für Kristallographie – New Crystal Structures **215**, 415-417 (2000).

Peters, K., E.M. Peters, H.G. von Schnering, W. Hönle, R. Schmidt, S.A. Moya, M. Gullpi and H. Binder: Crystal structure of tribromo(3,3'-dimethyl-2,2'-biquinoline)gold(III) hemiglycolate, $(C_9H_5CH_3N)_2AuBr_3 \cdot 0.5(CH_2OH)_2$. Zeitschrift für Kristallographie – New Crystal Structures **215**, 407-408 (2000).

Peters, K., E.M. Peters, V.R. Stegmann and W. Adam: Crystal structure of (*S*^{*}),(*S*^{*})-1-(3,3-dimethyl-4,4-diphenyl-2-oxetanyl)ethyl 4-nitrobenzoate, $(C_6H_5)_2(CH_3)_2C_3HO[CHOCO(CH_3)(C_6H_4NO_2)]$. Zeitschrift für Kristallographie – New Crystal Structures **215**, 215-216 (2000).

Peters, K., E.M. Peters, C. Vedder and G. Bringmann:

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

Peters, K., E.M. Peters, R. Volpicelli, S. Cossu, O. DeLucchi and P. Peluso:

- Crystal structure of 3 α ,4 α -4',5'-diphenyl-3-(phenylsulfonyl)-1*R*-[1 α ,2(4'*R**,5'*R**)-spiro]bicyclo[2.2.1]-hept-5-ene-2,2'[1,3]dioxolane, [(C₆H₅SO₂)C₇H₇][C₂H₂O₂(C₆H₅)₂].
Zeitschrift für Kristallographie – New Crystal Structures **215**, 231-232 (2000).
- Crystal structure of 2 β ,3 β -bis(phenylsulfonyl)-2 α -chloro-bicyclo[2.2.1]hepta-5-ene, C₇H₇(SO₂C₆H₅)₂Cl.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 33-34 (2000).

Peters, K., E.M. Peters, M. Welter and G. Bringmann: Crystal structure of 1-(3',5'-dimethoxyphenyl)-2-methyloximopropanol, C₆H₃(OCH₃)₂CH(OH)C(NOCH₃)(CH₃).
Zeitschrift für Kristallographie – New Crystal Structures **215**, 405-406 (2000).

Peters, K., E.M. Peters, A. Witzel and H. Quast:

- Crystal structure of 2,6-dimethyl-3,7-diphenylcycloocta-1,3,5,7-tetraene-1,5-dicarbonitrile, C₈H₂(C₆H₅)₂(CH₃)₂(CN)₂.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 293-294 (2000).
- Crystal structure of 4,8-dimethyl-3,7-diphenylcycloocta-1,3,5,7-tetraene-1,5-dicarbonitrile, C₈H₂(C₆H₅)₂(CH₃)₂(CN)₂.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 295-296 (2000).

Peters, K., E.M. Peters, A. Wuzik and G. Bringmann:

- Crystal structure of 2-trifluormethylsulfonyloxy-dinaphtho[2,1-*b*:1',2'-*d*]pyran-4-one, C₂₁H₁₁O₂(OSO₂CF₃). Zeitschrift für Kristallographie – New Crystal Structures **214**, 551-552 (1999).
- Crystal structure of (2,5-dimethyl)phenyl 1-bromonaphthyl-2-carboxylate, C₁₀H₆Br(COO)C₆H₃(CH₃)₂.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 391-392 (2000).
- Crystal structure of 1,4-dimethyl-6*H*-benzo[*b*]naphtho[1,2-*d*]pyran-6-one, C₁₀H₆(COO)C₆H₂(CH₃)₂.
Zeitschrift für Kristallographie – New Crystal Structures **215**, 393-394 (2000).

Petersen, L., L. Bürgi, H. Brune, F. Besenbacher and K. Kern: Comment on: 'Observation of two-dimensional Fermi contour of a reconstructed Au(111) surface using Fourier transform scanning tunneling microscopy'. Surface Science **423**, 154-156 (1999).

Philipp, G., M. Burghard and S. Roth: CdSe nanoparticle arrays contacted on electron transparent substrates. AIP Conference Proceedings **544**, 437-440 (2000).

Philipp, G. siehe Burghard, M.; Krstic, V.; Mews, A.; Peters, K.

Platzer, R., I.D. Dumkow, J.A. Gardner and J. Tate: Oxygen dynamics in epitaxial YBa₂Cu₃O_{7- δ} thin films. Hyperfine Interactions **121**, 325-329 (1999).

Pogosov, A.G., M.V. Budantsev, O.V. Kibis, A. Pouydebasque, D.K. Maude and J.C. Portal: Thermomagnetic effect in a two-dimensional electron system with an asymmetric quantizing potential. Physical Review **B61**, 15603-15605 (2000).

Pogosov, A.G., M.V. Budantsev, A. Pouydebasque, D.K. Maude, J.C. Portal, A.E. Plotnikov, A.I. Toropov and A.K. Bakarov: Electron magnetotransport in a honeycomb lattice of antidots. Physica **E6**, 499-502 (2000).

Pohlt, M. siehe Volkov, O.V.

Poltavets, V.V., P.E. Kazin, D.A. Belov, O.N. Poltavets, Y.D. Tretyakov and M. Jansen: Preparation of superconducting composite based on (Bi,Pb)₂Sr₂Ca₂Cu₃O_{10+ σ} with inclusion of aluminium containing phase. Doklady Akademii Nauk **368**, 778-780 (1999).

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

Ponomarev, B.K., E. Stiep, H. Wiegmann, A.G.M. Jansen, P. Wyder and B.S. Redkin: Anisotropy of the magnetoelectric effect in β' -Gd₂(MoO₄)₃. Physics of the Solid State **42**, 734-738 (2000).

Popovic, Z.V., M.J. Konstantinovic, V.A. Ivanov, O.P. Khuong, R. Gajic, A. Vietkin and V.V. Moshchalkov: Optical properties of the spin-ladder compound $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$. *Physical Review* **B62**, 4963-4972 (2000).

Popovic, Z.V., R. Gajic, M.J. Konstantinovic, R. Provoost, V.V. Moshchalkov, A.N. Vasilev, M. Isobe and Y. Ueda: Infrared and Raman spectra of LiV_2O_5 single crystals. *Physical Review* **B61**, 11454-11459 (2000).

Pouydebasque, A., M.V. Budantsev, A.G. Pogosov, Z.D. Kvon, D.K. Maude and J.C. Portal: Semi-classical orbits in a caterpillar like Sinai billiard. *Physica* **E7**, 731-734 (2000).

Praus, R.B., G.M. Gross, F.S. Razavi and H.-U. Habermeier: Effects of strain on the properties of $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ thin films. *Journal of Magnetism and Magnetic Materials* **211**, 41-46 (2000).

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

Presura, C., D. van der Marel, A. Damascelli and R.K. Kremer: Low-temperature ellipsometry of α' - NaV_2O_5 . *Physical Review* **B61**, 15762-15765 (2000).

Presura, C., van der Marel D., M. Dischner, C. Geibel and R.K. Kremer: Optical properties and electronic structure of α' - $\text{Na}_{1-x}\text{Ca}_x\text{V}_2\text{O}_5$. *Physical Review* **B62**, 16522-16527 (2000).

Puin, W., S. Rodewald, R. Ramlau, P. Heitjans and J. Maier: Local and overall ionic conductivity in nanocrystalline CaF_2 . *Solid State Ionics* **131**, 159-164 (2000).

Putrino, A., D. Sebastiani and M. Parrinello: Generalized variational density functional perturbation theory. *Journal of Chemical Physics* **113**, 7102-7109 (2000).

Putz, H., J.C. Schön and M. Jansen:

- 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).

Qteish, A. and M. Parrinello: Stability and structural properties of the SC1_6 phase of ZnS under high pressure. *Physical Review* **B61**, 6521-6524 (2000).

Quast, H., M. Seefelder, C. Becker, M. Heubes, E.M. Peters and K. Peters: Extension of Saunders' 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 Organic Chemistry*, 2763-2779 (1999).

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

Quast, H., S. Ivanova, E.M. Peters and K. Peters:

- Ring expansion of 2-alkylidenedihydroquinazolines to iminodihydro-1,4-benzodiazepines by methanesulfonyl and trifluoromethanesulfonyl azide. *European Journal of Organic Chemistry*, 1577-1587 (2000).
- Ring expansion of 2-alkylidenedihydroquinolines to 2-iminodihydro-1-benzazepines by phenyl, methanesulphonyl, and trifluoromethanesulphonyl azide. *European Journal of Organic Chemistry*, 507-520 (2000).
- 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*, 1811-1823 (1999).

Queisser, H.J.:

- The genesis of the transistor. In: 24th International Conference on the Physics of Semiconductors, (Ed.) D. Gershoni. World Scientific, Singapore 1999, 3-10.

– Electrochemical storage cells in silicon. In: Mass and Charge Transport in Inorganic Materials, (Eds.) P. Vincenzini and V. Buscaglia. Techna, Korea 2000, 1285-1290.

Queisser, H.J. and D. Bimberg: Schneller und dichter. Physikalische Blätter **56**, 21-23 (2000).

Rafailov, P.M., V.G. Hadjiev, A.R. Goñi and C. Thomsen: Rotation-vibrational dynamics of solid C₆₀: A Raman study. Physical Review **B60**, 13351-13354 (1999).

Rafailov, P.M., V.G. Hadjiev, H. Jantoljak and C. Thomsen: Raman depolarization ratio of vibrational modes in solid C₆₀. Solid State Communications **112**, 517-520 (1999).

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).

Raupach, E., G.L.J.A. Rikken, C. Train and B. Malezieux: Modelling of magneto-chiral enantioselective photochemistry. Chemical Physics **261**, 373-380 (2000).

Raymond, A., S. Juillaguet, I. Elmezouar, W. Zawadzki, M.L. Sadowski, M. Kamal-Saadi and B. Etienne: Oscillations of 2D electron density in GaAs/Ga_{0.67}Al_{0.33}A heterostructures in the QHE regime. Semiconductor Science and Technology **14**, 915-920 (1999).

Razavi, F.S., G.M. Gross, H.-U. Habermeier, O. Lebedev, S. Amelinckx, G. van Tendeloo and A. Vigliante: Epitaxial strain induced metal insulator transition in La_{0.9}Sr_{0.1}MnO₃ and La_{0.88}Sr_{0.1}MnO₃ thin films. Applied Physics Letters **76**, 155-157 (2000).

Richard, P., S. Jandle, Z. Ichalalene, M. Poirier, V. Nekvasil, C.T. Lin and M. Cardona: Infrared study of Nd_{2-x}Gd_xCuO₄ crystal-field excitation. Physica **C341-348**, 2145-2149 (2000).

Rigal, L.B., D.K. Maude, M. Potemski, J.C. Portal, L. Eaves, Z.R. Wasilewski, G. Hill, M.A. Pate and A.I. Toropov: A phase diagram for the breakdown of the odd integer quantum Hall effect. Physica **E6**, 124-127 (2000).

Rikken, G.L.J.A. and E. Raupach:

- Enantioselective magnetochiral photochemistry. Nature **405**, 932-935 (2000).
- Magneto-chiral anisotropy. Abstracts of Papers of the American Chemical Society **219**, 482-485 (2000).

Rikken, G.L.J.A. siehe Düchs, G.; Raupach, E.; Roth, T.; Tiggelen van, B.A.; Wiebel, S.

Simon, A. siehe Ahn, K.; Bussmann-Holder, A.; Cordier, S.; Deng, S.; Felser, C.; Henn, R.W.; Jardin, C.; Kremer, R.K.; Mattausch, H.J.; Oeckler, O.; Schmidt, R.; Taylor, J.W.; Vajenine, G.V.; Weirich, T.E.

Rings, S., V. Ischenko and M. Jansen: Preparation and crystal structure of lithium[tetrakis-(methylamino)-aluminate]. Zeitschrift für Naturforschung **B55**, 730-734 (2000).

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).
- Resistance degradation of iron-doped strontium titanate investigated by spatially resolved conductivity measurements. Journal of the American Ceramic Society **83**, 1969-1976 (2000).

Rodriguez-Suarez, R., E. Menendez-Proupin, C. Trallero-Giner and M. Cardona: Multiphonon resonant Raman scattering in nanocrystals. Physical Review **B62**, 11006-11016 (2000).

Romcevic, N., M. Romevic, D.R. Khokhlov, A.I. Belogorokhov, I.I. Ivanchik and W. König: Far-infrared study of impurity local modes in gallium-doped PbTe. Infrared Physics and Technology **40**, 453-462 (1999).

Romero, A.H., D.W. Brown and K. Lindenberg:

- Effects of dimensionality and anisotropy on the Holstein polaron. Physical Review **B60**, 14080-14091 (1999).

- Electron-phonon correlations, polaron size, and the nature of the self-trapping transition. *Physics Letters* **A266**, 414-420 (2000).
- Romero, A.H. and J.M. Sancho*: Generation of short and long range temporal correlated noises. *Journal of Computational Physics* **156**, 1-11 (1999).
- Romero, A.H., P.L. Silvestrelli and M. Parrinello*: Compton anisotropy from Wannier functions in the case of ice I_h. *Physica Status Solidi* **B220**, 703-708 (2000).
- Röthlisberger, U., P. Carloni, K. Doclo and M. Parrinello*: A comparative study of galactose oxidase and active site analogs based on QM/MM Car Parrinello simulations. *Journal of Biological Inorganic Chemistry* **5**, 236-250 (2000).
- Roth, S. siehe Burghard, M.; Choi, K.H.; Coleman, J.N.; Duesberg, G.S.; Gu, G.; Itoh, E.; Kamata, T.; Kim, G.T.; Krstic, V.; Liu, K.; Mews, A.; Muster, J.; Philipp, G.; Zha, F.X.
- Roth, T., and G.L.J.A. Rikken*: Observation of magnetoelectric Jones birefringence. *Physical Review Letters* **85**, 4478-4481 (2000).
- Rousseau, R., M. Boero, M. Bernasconi, M. Parrinello and K. Terakura*:
- Ab initio simulation of phase transitions and dissociation of H₂S at high pressure. *Physical Review Letters* **85**, 1254-1257 (2000).
 - Static Structure and Dynamical Correlations in High Pressure H₂S. *Physical Review Letters* **83**, 2218-2221 (1999).
- 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).
 - The interaction of gold clusters with methanol molecules: Ab initio molecular dynamics of Au_{n+}CH₃OH and Au_nCH₃OH. *Journal of Chemical Physics* **112**, 761-769 (2000).
- Rovira, C., P. Carloni and M. Parrinello*: The iron-sulfur bond in cytochrome c. *Journal of Physical Chemistry* **B103**, 7031-7035 (1999).
- Rovira, C. and M. Parrinello*:
- Harmonic and anharmonic dynamics of Fe-CO and Fe-O₂ in heme models. *Biophysical Journal* **78**, 93-100 (2000).
 - First-principles molecular dynamics simulations of models for the myoglobin active center. *International Journal of Quantum Chemistry, Quantum Chemistry Symposium* **80**, 1172-1180 (2000).
- Ruf, T., M. Cardona, C.S.J. Pickles and R. Sussmann*: Temperature dependence of the refractive index of diamond up to 925 K. *Physical Review* **B62**, 16578-16581 (2000).
- Ruf, T., R.W. Henn, M. Asen-Palmer, E. Gmelin, M. Cardona, H.J. Pohl, G.G. Devyatych and P.G. Sennikov*: Thermal conductivity of isotopically enriched silicon. *Solid State Communications* **115**, 243-247 (2000).
- 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).
- Saalfrank, R.W., H. Maid, F. Hampel and K. Peters*: Coordination polymers. Part 14: 1D- and 2D-coordination polymers from self-complementary building blocks: Co-crystallization of (P)- and (M)-single-stranded diastereoisomers. *European Journal of Inorganic Chemistry*, 1859-1867 (1999).
- Sachse, J.U., J. Weber and H. Lemke*: Deep-level transient spectroscopy of Pd-H complexes in silicon. *Physical Review* **B61**, 1924-1934 (2000).
- Sadowski, M.L., M. Grynberg and G. Martinez*: Far infrared response of CdTe structures on GaAs substrates. *NATO Science Series*, 3 **81**, 291-298 (2000).

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

Samuely, P. siehe Kacmarcik, J.; Szabo, P.

Samuilov, V.A., V.K. Ksenevich, G. Remenyi, G. Kiss and B. Podor: Impact ionization breakdown of n-GaAs in high magnetic fields. *Semiconductor Science and Technology* **14**, 1084-1087 (1999).

Sapega, V.F., T. Ruf and M. Cardona: Spin-flip Raman scattering in Mn-doped GaAs: exchange interaction and g factor renormalization. *Solid State Communications* **114**, 573-577 (2000).

Sarge, S.M., G.W.H. Höhne, H.K. Cammenga, W. Eysel and E. Gmelin: Temperature, heat and heat flow rate calibration of scanning calorimeters in the cooling mode. *Thermochimica Acta* **361**, 1-20 (2000).

Sasaki, K. and J. Maier:

- Low temperature defect chemistry of oxides. *Journal of the European Ceramic Society* **19**, 741-745 (1999).
- Low-temperature defect chemistry of oxides. I. General aspects and numerical calculations. *Journal of Applied Physics* **86**, 5422-5433 (1999).
- Low-temperature defect chemistry of oxides. II. Analytical relations. *Journal of Applied Physics* **86**, 5434-5443 (1999).
- In situ EPR studies of chemical diffusion in oxides. *Physical Chemistry, Chemical Physics* **2**, 3055-3061 (2000).
- Re-analysis of defect equilibria and transport parameters in Y₂O₃-stabilized ZrO₂ using EPR and optical relaxation. *Solid State Ionics* **134**, 303-321 (2000).

Sata, N., K. Eberman, K. Eberl and J. Maier: Mesoscopic fast ion conduction in nanometre-scale planar heterostructures. *Nature* **408**, 946-949 (2000).

Schiller, M., W. Schmidt, E. Balthes, D. Schweitzer, H.J. Koo, M.H. Whangbo, I. Heinen, T. Klaus, P. Kircher and W. Strunz: Investigations of the Fermi surface of a new organic metal: (BEDT-TTF)₄[Ni(dto)₂]. *Europhysics Letters* **51**, 82-88 (2000).

Schindler, W., T. Koop, A. Kazimirov, G. Scherb, J. Zegenhagen, T. Schultz, R. Feidenhansl and J. Kirschner: Non-coherent growth patches in pseudomorphic films: Unusual strain relief in electrodeposited Co on Cu(001). *Surface Science* **465**, L783-L788 (2000).

Schindewolf, U. and R. Winter: Fifty years of solid-state chemistry (1949-1999). *Nachrichten aus Chemie, Technik und Laboratorium* **47**, 980 (1999).

Schmid, J., J. Weis and K. Eberl: Kondo resonances in split-gate quantum dots. *Physica* **E6**, 375-378 (2000).

Schmid, J., J. Weis, K. Eberl and K. von Klitzing: Absence of odd-even parity behavior for Kondo resonances in quantum dots. *Physical Review Letters* **84**, 5824-5827 (2000).

Schmidt, M., H. Oppermann, C. Hennig, R.W. Henn, E. Gmelin, N. Soger and M. Binnewies: Investigations on the bismuth rare-earth oxyhalides Bi₂REO₄X (X = Cl, Br, I). *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 125-135 (2000).

Schmidt, O.G., U. Denker, K. Eberl, O. Kienzle and F. Ernst:

- Effect of overgrowth temperature on the photoluminescence of Ge/Si islands. *Applied Physics Letters* **77**, 2509-2511 (2000).
- Resonant tunnelling diodes made up of stacked self-assembled Ge/Si islands. *Applied Physics Letters* **77**, 4341-4343 (2000).

Schmidt, O.G. and K. Eberl:

- Photoluminescence of monolayer to submonolayer thick $\text{Ge}_{1-z}\text{C}_z$ on Si(001). *Semiconductor Science and Technology* **15**, 399-402 (2000).
- Multiple layers of self-assembled Ge/Si islands: Photoluminescence, strain fields, material interdiffusion, and island formation. *Physical Review* **B61**, 13721-13729 (2000).

Schmidt, O.G., K. Eberl, O. Kienzle, F. Ernst, S. Christiansen and H.P. Strunk: Reduced critical thickness and photoluminescence line splitting in multiple layers of self-assembled Ge/Si islands. *Materials Science & Engineering* **B74**, 248-252 (2000).

Schmidt, O.G., K. Eberl and Y. Rau: Strain and band-edge alignment in single and multiple layers of self-assembled Ge/Si and GeSi/Si islands. *Physical Review* **B62**, 16715-16720 (2000).

Schmidt, O.G., N.Y. Jin-Phillipp, C. Lange, U. Denker, K. Eberl, R. Schreiner, H. Gräbeldinger and H. Schweizer: Long-range ordered lines of self-assembled Ge islands on a flat Si (001) surface. *Applied Physics Letters* **77**, 4139-4141 (2000).

Schmidt, O.G., C. Lange and K. Eberl:

- Photoluminescence study of the 2D-3D growth mode changeover for different Ge/Si island phases. *Physica Status Solidi* **B215**, 319-324 (1999).
- 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).

Schmidt, O.G. siehe Cazayous, M.; Duschl, R.; Eberl, K.; Lipinski, M.O.; Liu, Z.X.; Manz, Y.M.; Stangl, J.

Schmidt, R., M. Roeder, O. Oeckler, A. Simon and V. Schurig: Separation and absolute configuration of the enantiomers of a degradation product of the new inhalation anesthetic sevoflurane. *Chirality* **12**, 751-755 (2000).

Schnelle, W., E. Gmelin, O. Crottaz and H. Schmid: Low temperature specific heat capacity of 3d transition metal chlorine boracites ($\text{T}_3\text{B}_7\text{O}_{13}\text{Cl}$; T = Cr, Mn, Fe, Co, Ni, Cu, Zn or Mg). *Journal of Thermal Analysis and Calorimetry* **56**, 365-370 (1999).

Schnelle, W., A. Poddar, P. Murugaraj, E. Gmelin, R.K. Kremer, K. Sasaki and J. Maier: The effect of annealing conditions on the physical properties of $\text{Nd}_{0.67}\text{Sr}_{0.33}\text{MnO}_{3-\delta}$. *Journal of Physics: Condensed Matter* **12**, 4401-4416 (2000).

Schnering von, H.G., R. Kröner, M. Baitinger, K. Peters, R. Nesper and Y. Grin: Crystal structure of the defect clathrate $\text{Cs}_8\text{Sn}_{44}\square_2$. *Zeitschrift für Kristallographie – New Crystal Structures* **215**, 205-206 (2000).

Scholer, M., H. Kucharek and J. Giacalone: Cross-field diffusion of charged particles and the problem of ion injection and acceleration at quasi-perpendicular shocks. *Journal of Geophysical Research* **105**, 18285-18293 (2000).

Schön, J.C. and P. Sibani: Energy and entropy of metastable states in glassy systems. *Europhysics Letters* **49**, 196-202 (2000).

Schön, J.C., M.A.C. Wevers and M. Jansen: Investigation of the possible ternary nitrides in the system $\text{Li}_3\text{N}/\text{Na}_3\text{N}$. *Solid State Sciences* **2**, 449-456 (2000).

Schönhammer, K., V. Meden, W. Metzner, U. Schollwöck and O. Gunnarsson: Boundary effects on one-particle spectra of Luttinger liquids. *Physical Review* **B61**, 4393-4396 (2000).

Schönherr, E., K. Matsumoto and K. Murakami: Study of evaporation of C_{60} and C_{70} in vacuum and inert gases. *Proceedings – Electrochemical Society* **2000-12**, 88-99 (2000).

Schoser, S., C. Kutter, M. Potemski and B. Etienne: High density two-dimensional electron-hole plasmas in quantising magnetic fields. *NATO Science Series* **3** **81**, 159-168 (2000).

Schuler, H., T. Kaneko, M. Lipinski and K. Eberl: In situ etching with AsBr₃ and regrowth in molecular beam epitaxy. *Semiconductor Science and Technology* **15**, 169-177 (2000).

Schuler, H., M. Keller, M. Lipinski, K. Eberl, J. Weis and K. von Klitzing: In situ etching and regrowth in III-V molecular beam epitaxy for future nanotechnology. *Journal of Vacuum Science & Technology* **B18**, 1557-1561 (2000).

Schumacher, H.W., U.F. Keyser, U. Zeitler, R.J. Haug and K. Eberl: Controlled mechanical AFM machining of two-dimensional electron systems: fabrication of a single-electron transistor. *Physica* **E6**, 860-863 (2000).

Schüssler, A.S., J. Burghorn, P. Wyder, B.I. Lembrikov and R. Baptist: Observation of excimer luminescence from electron-excited liquid Xenon. *Applied Physics Letters* **77**, 2786-2788 (2000).

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).

Schwarz, U., O. Jepsen and K. Syassen: Electronic structure and bonding in the C_{mca} phases of Si and Cs. *Solid State Communications* **113**, 643-648 (2000).

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).

Schweinbock, T., D. Weiss, M. Lipinski and K. Eberl: Scanning Hall probe microscopy with shear force distance control. *Journal of Applied Physics* **87**, 6496-6498 (2000).

Schwering, G. siehe Wüllen van, L.

Sebastiani, D. siehe Putrino, A.

Sembian, A.M., F. Banhart, M. Konuma, J. Weber, S.M. Babu and P. Ramasamy: Influence of cooling rate on the dislocations and related luminescence in LPE SiGe layers grown on Si (100) substrates. *Thin Solid Films* **372**, 1-5 (2000).

Serpenguzel, A., B.E. Sagol, E.A. Avrutin, R.M. Dela-Rue, P.J.R. Laybourn and C.R. Stanley: Coupled cavity DQW semiconductor lasers. *Materials Science & Engineering* **B74**, 80-83 (2000).

Serrano, J., M. Cardona and T. Ruf: Spin-orbit splitting in diamond: excitons and acceptor related states. *Solid State Communications* **113**, 411-414 (2000).

Seyberlich, B., P. Laackmann, E.M. Peters, K. Peters, H.G. von Schnering and W. Tochtermann: Synthesis, sensory properties and structures of substituted dodecanolides. *Tetrahedron* **56**, 4129-4137 (2000).

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 structures. *Semiconductor Science and Technology* **14**, 762-767 (1999).

Shin, D.H., S.K. Kim, J.K. Rhee, J.J. Harris, D.K. Maude and J.C. Portal: Low temperature magnetotransport phenomena in modulation-doped Si/Si_{1-x}Ge_x quantum well structures grown by gas-source MBE. *Solid State Communications* **115**, 121-126 (2000).

Sidis, Y., P. Bourges, H.F. Fong, B. Keimer, L.P. Regnault, J. Bossy, A. Ivanov, B. Hennion, P. Gautier-Picard, G. Collin, D.L. Millius and I.A. Aksay: Quantum impurities and the neutron resonance peak in YBa₂Cu₃O₇: Ni versus Zn. *Physical Review Letters* **84**, 5900-5903 (2000).

Silvestrelli, P.L. and M. Parrinello:

- Water molecule dipole in the gas and in the liquid phase. *Physical Review Letters* **82**, 5415 (1999).
- Structural, electronic, and bonding properties of liquid water from first principles. *Journal of Chemical Physics* **111**, 3572-3580 (1999).

Simon, A.:

- Jean Rouxel's research between chemistry and physics. *Actualite Chimique* **1**, 27-30 (2000).
- Superconductivity and GMR viewed from chemistry. *Journal of Superconductivity: Incorporating Novel Magnetism* **5**, 691-695 (2000).

Simunek, A., J. Vackar, K. Kunc and J. Hutter: Soft norm-conserving pseudopotential for carbon. *European Physical Journal* **B14**, 245-249 (2000).

Sirenko, A.A., C. Bernhard, A. Golnik, A.M. Clark, J.H. Hao, W.D. Si and X.X. Xi: Soft-mode hardening in SrTiO₃ thin films. *Nature* **404**, 373-376 (2000).

Sirenko, A.A., P. Etchegoin, A. Fainstein, K. Eberl and M. Cardona: Birefringence in the transparency region of GaAs/AlAs multiple quantum wells. *Physical Review* **B60**, 8253-8261 (1999).

Smet, J.H.: The fractional quantum Hall effect goes organic. *Physics World* **13**, 26-27 (2000).

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 Akimov, M.Y.; Albrecht, C.; Feng, Y.; Gubarev, S.I.; Jobst, S.; Kukushkin, I.V.; Langenbuch, M.

Snoke, D.W., V. Negoita and K. Eberl: Energy shifts of indirect excitons in coupled quantum wells. *Journal of Luminescence* **87-9**, 157-161 (2000).

Somer, M., W. Carrillo-Cabrera, K. Peters and H.G. von Schnering:

- Crystal structure of sodium tetrastrontium tris(dinitridoborate), NaSr₄[BN₂]₃. *Zeitschrift für Kristallographie – New Crystal Structures* **215**, 209-209 (2000).
- Synthesis, crystal structure, and vibrational spectra of compounds with the linear dipnictidoborate (3-) anions [P-B-P]³⁻, [As-B-As]³⁻, and [P-B-As]³⁻. *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 897-904 (2000).

Somer, M., U. Herterich, J. Curda, W. Carrillo-Cabrera, A. Zurn, K. Peters and H.G. von Schnering: Ternary nitridoborates. 2. Synthesis, crystal structure, and vibrational spectra of new ternary compounds with the [N – B – N]³⁻ anion. *Zeitschrift für Anorganische und Allgemeine Chemie* **626**, 625-633 (2000).

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).

Sparenberg, A. siehe Düchs, G.; Wiebel, S.

Sredniawa, B., R. Duraj, R. Zach and M. Guillot: AC susceptibility measurements under high pressure up to 2.0 GPa. *Acta Physica Polonica* **A97**, 917-920 (2000).

Stangl, J., T. Roch, G. Bauer, I. Kegel, T.H. Metzger, O.G. Schmidt, K. Eberl, O. Kienzle and F. Ernst: Vertical correlation of SiGe islands in SiGe/Si superlattices: X-ray diffraction versus transmission electron microscopy. *Applied Physics Letters* **77**, 3953-3955 (2000).

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., J. Kuhl and R. Merlin: Generation of coherent polaritons in ZnSe with a single ultrafast optical pulse. In: *Conference on Quantum Electronics and Laser Science: Technical Digest*. IEEE, Piscataway 2000, 256.

Stolen, S., A. Grzechnik, T. Grande and M. Mezouar: Anisotropic compressibility and expansivity in layered GeSe₂. *Solid State Communications* **115**, 249-252 (2000).

Stollhoff, G.:

- Itinerant ferromagnetism of the transition metal: our present understanding. *Angewandte Chemie, International Edition in English* **39**, 4471-4475 (2000).
- How can metallic ferromagnetism be explained? Itinerant ferromagnetism of the transition metals: Our present understanding. *Angewandte Chemie, International Edition in English* **39**, 4471-4475 (2000).

Stolovits, A., A. Sherman, K. Ahn and R.K. Kremer: Quantum interference of electrons in Ta₄Te₄Si. *Physical Review* **B62**, 10565-10569 (2000).

Strehlow, P., M. Wohlfahrt, A.G.M. Jansen, R. Hauelsen, G. Weiss, C. Enss and S. Hunklinger: Magnetic field dependent tunneling in glasses. *Physical Review Letters* **84**, 1938-1941 (2000).

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

Sugawara, Y., S. Fukatsu, K. Brunner and K. Eberl: Field-enhanced Stokes shifts in strained Si_{1-y}C_y/Si(001) quantum wells. *Thin Solid Films* **369**, 402-404 (2000).

Sun, Z.-G., H.-W. Zhang, B. Liang, J.-Y. Wang, B.-G. Shen and J.P. Liu: Structure and magnetic properties of Y₂Co_{17-x}Mn_x (x=0-8) compounds. *Journal of Applied Physics* **88**, 5311-5315 (2000).

Syassen, K. siehe Adler, P.; Cardona, M.; Duesberg, G.S.; Grzechnik, A.; Hanfland, M.; Kremer, R.K.; Liu, Z.X.; Loa, I.; Martinez-Pastor, J.; Schwarz, U.; Takemura, K.; Ulrich, C.; Ves, S.

Szabo, P., P. Samuely, A.G.M. Jansen, J. Marcus and P. Wyder:

- Magnetic pair breaking in superconducting Ba_{1-x}K_xBiO₃ investigated by magnetotunneling. *Physical Review* **B62**, 3502-3507 (2000).
- Magnetotunneling and magnetic pair-breaking in superconducting Ba_{1-x}K_xBiO₃. *Physica* **B284-288**, 977-978 (2000).
- Magnetic pair breaking in superconducting Ba_{1-x}K_xBiO₃ investigated by magnetotunneling. *Physical Review* **B62**, 1-6 (2000).

Szabo, P. siehe Kacmarcik, J.

Tabacchi, G. siehe Fois, E.

Takemura, K., N.E. Christensen, D.L. Novikov, K. Syassen, U. Schwarz and M. Hanfland: Phase stability of highly compressed cesium. *Physical Review* **B61**, 14399-14404 (2000).

Takemura, K., U. Schwarz, K. Syassen, M. Hanfland, N.E. Christensen, D.L. Novikov and I. Loa: High-pressure Cmca and hcp phases of germanium. *Physical Review* **B62**, 10603-10606 (2000).

Tallon, J.L., C. Bernhard and J.W. Loram: Thermodynamic, transport and magnetic properties of the ferromagnetic superconductor RuSr₂GdCu₂O₈ and related compounds. *Journal of Low Temperature Physics* **117**, 823-830 (1999).

Tallon, J.L., J.W. Loram, G.V.M. Williams and C. Bernhard: Heat capacity and transport studies of the ferromagnetic superconductor RuSr₂GdCu₂O₈. *Physical Review* **B61**, R6471-R6474 (2000).

Tank, R.W. and C. Arcangeli: An introduction to the third-generation LMTO method. *Physica Status Solidi* **B217**, 89-130 (2000).

Tarasov, I., S. Ostapenko, V. Feifer, S. McHugo, S.V. Koveshnikov, J. Weber, C. Haessler and E.U. Reisner: Defect diagnostics using scanning photoluminescence in multicrystalline silicon. *Physica* **B274**, 549-552 (1999).

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

Teran, F.J., M.L. Sadowski, M. Potemski, D.K. Maude, G. Karczewski, S. Mackowski and J. Jaroszynski:

- Two-dimensional electron gas coupled to Mn^{2+} ions: a magneto-optical study of CdMnTe/CdMgTe MDQWs. *Physica* **E6**, 775-778 (2000).
- Two-dimensional electron gas coupled to Mn^{2+} ions: a magneto-optical study of CdMnTe/CdMgTe MDQWs. In: *Proceedings of the Thirteenth International Conference on Electronic Properties of Two-Dimensional Systems*, (Ed.) P. Hawrylak. North-Holland, Amsterdam 1999, 491-495.

Teske, E., Y. Monarkha and P. Wyder: Fluctuational-field-induced narrowing of the quantum cyclotron resonance from two-dimensional electrons on the surface of superfluid helium. *Physica* **B284**, 1920-1921 (2000).

Teske, E. siehe Monarkha, Y.P.; Penning, F.C.

Thopart, D., A. Wahl, F. Warmont, Ch. Simon, J.C. Soret, L. Ammor, A. Ruyter, A.I. Buzdin, A.A. Varlamov and S. de Brion: Relevance of the scheme of regularization of the density-of-state fluctuation contribution in an arbitrary magnetic field. *Physical Review* **B62**, 9721-9725 (2000).

Tiggelen van, B.A., D. Lacoste and G.L.J.A. Rikken: Magneto-optics with diffuse light. *Physica* **B279**, 13-16 (2000).

Tkachenko, O.A., V.A. Tkachenko, D.G. Baksheev, Z.D. Kvon and J.C. Portal: Electrostatic potential, energy spectrum, and Fano resonances in a ballistic ring interferometer based on an AlGaAs/GaAs heterojunction. *JETP Letters* **71**, 255-258 (2000).

Tregenna-Piggott, P.L.W., H. Weihe, J. Bendix, A.L. Barra and H.U. Gudel: High-field, multifrequency EPR study of the vanadium(III) hexaaqua cation. *Inorganic Chemistry* **38**, 5928 (1999).

Tsoi, M., A.G.M. Jansen, J. Bass, W.C. Chiang, V. Tsoi and P. Wyder: Generation and detection of phase-coherent current-driven magnons in magnetic multilayers. *Nature* **406**, 46-48 (2000).

Tsoi, V.S., J. Bass and P. Wyder: Studying conduction-electron/interface interactions using transverse electron focusing. *Reviews of Modern Physics* **71**, 1641-1693 (1999).

Tyagi, A.K. and J. Kohler: Preparation, magnetic properties and structure of β - Li_3CrF_6 . *Materials Research Bulletin* **35**, 135-141 (2000).

Uhrig, G.S., F. Schönhofeld, 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., D. Olguin, A. Cantarero, A.R. Goñi, K. Syassen and A. Chevy: Effect of pressure on direct optical transitions of γ -InSe. *Physica Status Solidi* **B221**, 777-787 (2000).

Ulrich, C. siehe Lynn, J.W.

Vagner, I.D. siehe Gurevich, V.L.; Gvozdkov, V.M.; Itskovsky, M.A.; Zyuzin, A.

Vajenine, G.V., U. Steinbrenner and A. Simon: A new subnitride in the series $Na_nBa_{14}CaN_6$ with $n=8$. *Comptes Rendus de l'Academie des Sciences IIc* **2**, 583-589 (1999).

Valdés, J.E., C. Agurto, F. Ortega, P. Vargas, R. Labbe and N.R. Arista: Energy loss of protons at low velocities in Pd and Au polycrystalline thin films. *Nuclear Instruments & Methods in Physics Research* **B164**, 268-271 (2000).

Van den Brink, J., P. Horsch and A.M. Oles: Photoemission spectra of $LaMnO_3$ controlled by orbital excitations. *Physical Review Letters* **85**, 5174-5177 (2000).

Vartanyants, I.A. and J. Zegenhagen:

- Photoelectric scattering from an X-ray interference field. *Solid State Communications* **115**, 161 (2000).

- Quadrupole contribution to the angular resolved photoemission from an X-ray interference field. *Physica Status Solidi* **B215**, 819-826 (1999).
- Photoelectric scattering from an X-ray interference field. *Solid State Communications* **113**, 299-320 (1999).

Vasilyev, Y., 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, Y., 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).

Vedeneev, S.I., A.G.M. Jansen and P. Wyder:

- High-field magnetoresistance and Hall effect in $\text{Bi}_2\text{Sr}_2\text{CuO}_x$ single crystals. *Journal of Experimental and Theoretical Physics* **90**, 1042-1049 (2000).
- Isotropic negative out-of-plane magnetoresistance of $\text{Bi}_2\text{Sr}_2\text{CuO}_{6+\delta}$ single crystals. *Physical Review* **B62**, 5997-6001 (2000).

Vedeneev, 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).

Vedeneev, S.I. siehe Morello, A.

Vensky, S. siehe Jansen, M.

Ves, S., U.D. Venkateswaran, I. Loa, K. Syassen, F. Shahedipour and B.W. Wessels: Pressure dependence of the blue luminescence in Mg-doped GaN. *Applied Physics Letters* **77**, 2536-2538 (2000).

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).
- Soft-mode splitting used as probe of dipolar correlation in $\text{K}_{1-x}\text{Li}_x\text{TaO}_3$. *Ferroelectrics* **239**, 1035-1042 (2000).

Volkov, O.V., I.V. Kukushkin, D.V. Kulakovskii, K. von Klitzing and K. Eberl: Bistable charge states in a photoexcited quasi-two-dimensional electron-hole system. *JETP Letters* **71**, 322-326 (2000).

Volkov, O.V., I.V. Kukushkin, M.V. Lebedev, G.B. Lesovik, K. von Klitzing and K. Eberl: Anomalous fluctuations of 2D-electron recombination radiation intensity in the quantum Hall regime. *JETP Letters* **71**, 383-386 (2000).

Volkov, O.V., M. Pohl, I.V. Kukushkin, W. Dietsche and K. von Klitzing: Novel trion states in low-density 2D-hole system with complex valence band structure. *Europhysics Letters* **50**, 409-415 (2000).

Volkov, O.V., S.V. Tovstonog, I.V. Kukushkin, K. von Klitzing and K. Eberl: Localization of negatively charged excitons in GaAs/AlGaAs quantum wells. *JETP Letters* **70**, 595-601 (1999).

Wang, J.-Y., B. Liang, S.-Y. Zhang, Q.-W. Yan, B.-G. Shen, W.-S. Zhan and J.P. Liu: Magnetic properties of $(\text{Pr}_{1-x}\text{Ce}_x)_6\text{Fe}_{13}\text{Al}$ compounds. *Journal of Applied Physics* **87**, 4903-4905 (2000).

Weber, J.: Hydrogen in silicon: evidence for transition-metal hydrogen complexes and hydrogen molecules. In: 24th International Conference on the Physics of Semiconductors, (Ed.) D. Gershoni. World Scientific, Singapore 1999, 209-216.

Weber, J., S. Knack and J.U. Sachse: Depth profiles of palladium-hydrogen complexes in silicon. *Physica* **B274**, 429-432 (1999).

Weckesser, J. siehe Barth, J.V.

Wedig, U. siehe Binder, H.; Jansen, M.; Mudring, A.V.

Weirich, T.E., X.D. Zou, R. Ramlau, A. Simon, G.L. Cascarano, C. Giovacazzo and S. Hovmoller: Structures of nanometre-size crystals determined from selected-area electron diffraction data. *Acta Crystallographica* **A56**, 29-35 (2000).

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

Weis, J. siehe Hüls, J.; Schmid, J.; Schuler, H.; Weitz, P.; Wilhelm, U.

Weiss, H., M.V. Kartsovnik, W. Biberacher, E. Balthes, A.G.M. Jansen and N.D. Kushch: Angle-dependent magnetoquantum oscillations in κ -(BEDT-TTF)₂Cu[N(CN)₂]Br. *Physical Review* **B60**, 16259-16262 (1999).

Weiss, H., M.V. Kartsovnik, W. Biberacher, E. Steep, E. Balthes, A.G.M. Jansen and N.D. Kushch: Magneto-transport studies of the Fermi surface in the organic superconductor κ -(BEDT-TTF)₂Cu[N(CN)₂]Br. *Synthetic Metals* **103**, 1998-1999 (1999).

Weiss, H. siehe Boero, M.; Christ, P.

Weitz, P., E. Ahlswede, J. Weis, K. von Klitzing and K. Eberl:

- Hall-potential investigations under quantum Hall conditions using scanning force microscopy. *Physica* **E6**, 247-250 (2000).
- A low-temperature scanning force microscope for investigating buried two-dimensional electron systems under quantum Hall conditions. *Applied Surface Science* **157**, 349-354 (2000).

Wevers, M.A.C., J.C. Schön and M. Jansen: Global aspects of the energy landscape of metastable crystal structures in ionic compounds. *Journal of Physics: Condensed Matter* **11**, 6487-6499 (1999).

Wevers, M.A.C. siehe Schön, J.C.

Wiebel, S., A. Sparenberg, G.L.J.A. Rikken, D. Lacoste and B.A. van Tiggelen: Photonic Hall effect in absorbing media. *Physical Review* **E62**, 8636-8639 (2000).

Wilhelm, U. and J. Weis: Strongly electrostatically coupled quantum dots with separate leads. *Physica* **E6**, 668-671 (2000).

Wingbermuehle, J., M. Meyer, O.F. Schirmer, R. Pankrath and R.K. Kremer: Electron paramagnetic resonance of Ce³⁺ in strontium-barium niobate. *Journal of Physics: Condensed Matter* **12**, 4277-4284 (2000).

Witowski, A.M., H.P. Moll, M.L. Sadowski, P. Wyder, G. Karczewski, J. Kossut and T. Wojtowicz: Phonon spectrometry with a bolometer based on spin-lattice relaxation. *Applied Physics Letters* **76**, 1749-1751 (2000).

Witowski, A.M., K. Pakula, J.M. Baranowski, M.L. Sadowski and P. Wyder: Electron effective mass in hexagonal GaN. *Applied Physics Letters* **75**, 4154-4155 (1999).

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

Witschas, M., H. Eckert, D. Wilmer, R.D. Banhatti, K. Funke, J. Fitter, R.E. Lechner, G. Korus and M. Jansen: Anion rotation and cation transport in the rotor phase α -sodium orthophosphate: Paddle-wheel mechanism redefined in view of new experimental results. *Zeitschrift für Physikalische Chemie* **214**, 643-673 (2000).

Wojtowicz, T., M. Kutrowski, G. Karczewski, J. Kossut, B. König, A. Keller, D.R. Yakovlev, A. Waag, J. Geurts, W. Ossau, G. Landwehr, I.A. Merkulov, F.J. Teran and M. Potemski: II-VI quantum structures with tunable electron g-factor. *Journal of Crystal Growth* **214**, 378-386 (2000).

Wosnitza, J., S. Wanka, J. Hagel, E. Balthes, N. Harrison, J.A. Schlueter, A.M. Kini, U. Geiser, J. Mohtasham, R.W. Winter and G.L. Gard: Two-dimensional Fermi liquid with fixed chemical potential. *Physical Review* **B61**, 7383-7387 (2000).

Wu, X.C., A.M. Bittner, K. Kern, C. Eggs and S. Veprek: Kinetic oscillations of red photoluminescence from nanocrystalline Si/SiO₂ films. *Applied Physics Letters* **77**, 645-647 (2000).

Wüllen van, L., H. Eckert and G. Schwering: Structure-property correlations in lithium phosphate glasses: New insights from ³¹P ↔ ⁷Li double-resonance NMR. *Chemistry of Materials* **12**, 1840-1846 (2000).

Wüllen van, L., U. Müller and M. Jansen:

- Understanding intermediate-range order in amorphous nitridic ceramics: A ²⁹Si{¹¹B} REDOR/REAPDOR and ¹¹B{²⁹Si} REDOR study. *Chemistry of Materials* **12**, 2347-2352 (2000).
- Intermediate-range order in amorphous nitridic ceramics: Lessons from modern solid-state NMR spectroscopy. *Angewandte Chemie, International Edition in English* **39**, 2519-2521 (2000).

Wyder, P. siehe Balthes, E.; Dorfman, S.; Finkeissen, E.; Gauss, N.; Heil, J.; Kornev, I.; Krasovitsky, V.B.; Monarkha, Y.P.; Mossang, E.; Murakami, H.; Naidyuk, Y.G.; Pashchenko, V.A.; Penning, F.C.; Ponomarev, B.K.; Rybaltchenko, L.F.; Schüssler, A.S.; Szabo, P.; Teske, E.; Tsoi, M.; Tsoi, V.S.; Vedenev, S.I.; Witowski, A.M.; Wyszomolek, A.; Zhang, Y.Z.; Zyuzin, A.

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

Yang, J.B., C.Y. Tai, G.K. Marasinghe, G.D. Waddill, O.A. Pringle, W.J. James and Y. Kong: Structural, electronic, and magnetic properties of LaNi_{5-x}T_x (T = Fe, Mn) compounds. *Physical Review* **B63**, 014407-014414 (2000).

Yevtushenko, O., G. Lutjering, D. Weiss and K. Richter: Weak localization in antidot arrays: Signature of classical chaos. *Physical Review Letters* **84**, 542-545 (2000).

Yoo, S.D., D.E. Aspnes, L.F. Lastras-Martinez, T. Ruf, M. Konuma and M. Cardona: High-resolution spectroscopy with reciprocal-space analysis: Application to isotopically pure Si. *Physica Status Solidi* **B220**, 117-125 (2000).

Yu, U.J., B.I. Min and J.D. Lee: Effects of phonon hardening on the polaron transport in colossal magneto-resistive manganites. *Physical Review* **B61**, 84-87 (2000).

Zeitler, U., H.W. Schumacher, J. Regul, R.J. Haug, P. Weitz, A.G.M. Jansen and F. Schaffler: Exchange interaction effects in the crossing of spin-polarized Landau levels in a silicon-germanium heterostructure: transition into a ferromagnetic state. *Physica* **E6**, 288-292 (2000).

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).

Zeman, J., G. Martinez, K.K. Bajaj, I. Krivorotov and K. Uchida: Magnetoluminescence studies in InGaP alloys. *Applied Physical Letters* **27**, 4335-4337 (2000).

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

Zeyher, R.: Charge and spin dynamics in α'-NaV₂O₅. *Physica* **B281**, 644-645 (2000).

Zeyher, R. and E. Cappelluti: Interplay of superconductivity with structural phases in a generalized t - J model. *Physica* **C341**, 121-124 (2000).

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

Zeyher, R. siehe Cappelluti, E.

Zha, F.X., R. Czerw, D.L. Carroll, P. Kohler-Redlich, B.Q. Wei, A. Loiseau and S. Roth: Scanning tunneling microscopy of chromium-filled carbon nanotubes: Tip effects and related topographic features. *Physical Review* **B61**, 4884-4889 (2000).

Zhang, Y.Z., R. Deltour, J.F. deMarneffe, Y.L. Qin, L. Li, Z.X. Zhao, A.G.M. Jansen and P. Wyder: Magneto-resistance properties of $\text{Bi}_2\text{Sr}_{2-x}\text{La}_x\text{CuO}_{6+\delta}$ superconducting thin films grown on vicinal substrates. *Physical Review* **B61**, 8675-8678 (2000).

Zhang, Y.Z., R. Deltour, J.F. deMarneffe, Y.L. Qin, H.H. Weu, L. Li, Z.X. Zhao, A.G.M. Jansen and P. Wyder: Resistive upper critical magnetic field of a superconducting Bi-2201 thin film grown on a vicinal substrate. *Physica* **C341-348**, 1115-1118 (2000).

Zhang, F., Y. Xu, J.H. Yang and M. Guillot: A theoretical study of the magnetic and magneto-optical properties of Nd-substituted yttrium iron garnets. *Journal of Physics: Condensed Matter* **12**, 7287-7294 (2000).

Zhang, H.-W. siehe Sun, Z.-G.

Zheng, D.N., J.Q. Li, C.T. Lin, S.L. Yan, L. Fang, Y.M. Ni and Z.X. Zhao: Upper critical and irreversibility field of over-doped $\text{T}_{12}\text{Ba}_2\text{CuO}_{6+d}$ superconductors. *Physica* **C341-348**, 1373-1374 (2000).

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

Zheng, Y.Q., Y.H. Ye, F.T. Hu, K. Peters and H.G. von Schnering: Synthesis, crystal structure and magnetic property of disodium bicarbonato-cobaltate (II) tetrahydrate, $\text{Na}_2\text{Co}(\text{CO}_3)_2 \cdot 4\text{H}_2\text{O}$. *Chemical Research in Chinese Universities* **15**, 311-316 (1999).

Zhukov, A.A., S. Kokkaliaris, P.A.J. de Groot, A.G.M. Jansen, E. Mossang, H. Asaoka, T. Wolf, R. Gagnon and L. Taillefer: Transformations of the peak-effect near the multicritical point in $\text{YBa}_2\text{Cu}_3\text{O}_y$ single crystals. *Physica* **C341**, 1027-1030 (2000).

Zhukovskii, Y.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: Condensed Matter* **12**, 55-66 (2000).

Ziegler, J.C., G. Scherb, O. Bunk, A. Kazimirov, L.X. Cao, D.M. Kolb, R.L. Johnson and J. Zegenhagen: Pb deposition on n-Si(111):H electrodes: an in situ X-ray study. *Surface Science* **452**, 150-160 (2000).

Zimmer, F., P. Ballone, J. Maier and M. Parrinello: Charge carrier interactions in ionic conductors: A classical molecular-dynamics and Monte Carlo study on AgI. *Journal of Chemical Physics* **112**, 6416-6423 (2000).

Zimmer, F., P. Ballone, M. Parrinello and J. Maier: The conductivity anomaly in PbF_2 : a numerical investigation by classical MD and MC simulations. *Solid State Ionics* **127**, 277-284 (2000).

Zuo, F., J. Hagel, S. Wanka, J. Wosnitza, E. Balthes, D. Schweitzer and W. Strunz: Interlayer dissipation in magnetic fields for $\text{H} \parallel \text{J}$ in κ -(ET) $_2\text{I}_3$. *Physica* **C333**, 79-85 (2000).

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

Zwerschke, S. siehe Jobst, S.

Zyuzin, A., B. Spivak, I. Vagner and P. Wyder: Mesoscopic mechanism of exchange interaction in magnetic multilayers. *Physical Review* **B62**, 13899-13902 (2000).