



## PUBLICATIONS

Acosta-Diaz, P. see Katsaros, G.

*Adler, P.* Comment on ‘Spin- and charge-ordering in oxygen-vacancy-ordered mixed-valence  $\text{Sr}_4\text{Fe}_4\text{O}_{11}$ ’. Physical Review B **77**, 136401 (2008).

*Alexandrov, V.E., R.A. Evarestov, E.A. Kotomin and J. Maier.* *Ab initio* study of bulk and surface iron defects in  $\text{SrTiO}_3$ . Journal of Physics: Conference Series **117**, 012001 (2008).

*Alexandrov, V.E., E.A. Kotomin, J. Maier and R.A. Evarestov.* *Ab initio* modeling of spin and charge ordering and lattice dynamics in  $\text{CaFeO}_3$  crystals. Journal of Chemical Physics **129**, 0214704 (2008).

*Alexandrov, V.E., J. Maier and R.A. Evarestov.* *Ab initio* study of  $\text{SrFe}_x\text{Ti}_{1-x}\text{O}_3$ : Jahn-Teller distortion and electronic structure. Physical Review B **77**, 075111 (2008).

*Amin, R., C.T. Lin and J. Maier.* Aluminum-doped  $\text{LiFePO}_4$  single crystals. Part I. Growth, characterization and total conductivity. Physical Chemistry Chemical Physics **20**, 3519–3523 (2008).

*Amin, R., C.T. Lin and J. Maier.* Aluminum-doped  $\text{LiFePO}_4$  single crystals. Part II. Ionic conductivity, diffusivity and defect model. Physical Chemistry Chemical Physics **20**, 3524–3529 (2008).

*Amin, R. and J. Maier.* Effect of annealing on transport properties of  $\text{LiFePO}_4$ : Towards a defect chemical model. Solid State Ionics **178**, 1831–1836 (2008).

*Amin, R., J. Maier, P. Balaya, D.P. Chen and C.T. Lin.* Ionic and electronic transport in single crystalline  $\text{LiFePO}_4$  grown by optical floating zone technique. Solid State Ionics **179**, 1683–1687 (2008).

*Amsharov, K.Y. and M. Jansen.* A  $\text{C}_{78}$  fullerene precursor: Toward the direct synthesis of higher fullerenes. Journal of Organic Chemistry **73**, 2931–2934 (2008).

Amsharov, K. see Epple, L.; Simeonov, K.; Weitz, R.T.

*Andergassen, S., T. Enss, C. Karrasch and V. Meden.* A gentle introduction to the functional renormalization group: The Kondo effect in quantum dots. In: Quantum Magnetism; B. Barbara, Y. Imry, G. Sawatzky, P.C.E. Stamp (Eds.). NATO Science for Peace and Security Series B: Physics and Biophysics, 1–17 (2008). Springer Verlag, Berlin/Heidelberg, Germany.

Andersen, O.K. see Dolgov, O.V.; Held, K.; Kent, P.R.C.; Liu, G.Q.; Pillay, D.; Sushkov, O.P.

*Andreev, I.V., V.M. Murav'ev, I.V. Kukushkin, J.H. Smet, K. von Klitzing and V. Umanskii.* Contactless Measurement of the Conductivity of Two-Dimensional Electrons in the Regime of Microwave-Induced Giant Magnetoresistance Oscillations. JETP Letters **88**, 616–619 (2008).

*Ansaldi, A., C. George, M.T. Parodi, E. Di Zitti, S. Roth and D. Ricci.* Ex-situ synthesized nickel nanoparticles for multi-walled carbon nanotube growth on high aspect ratio substrates. physica status solidi (b) **245**, 1923–1926 (2008).

*Ansaldi, A., D. Ricci, E. di Zitti and S. Roth.* Direct transfer of CVD-grown transparent SWNT networks from growth substrate to polymer. Physica E **40**, 2430–2433 (2008).

*Antonakos, A., D. Lampakis, E. Liarokapis, M. Filippi, W. Prellier, G.H. Aydogdu and H.-U. Habermeier.* Phase separation in manganite thin films. Journal of Physics: Condensed Matter **20**, 434232 (2008).

*Antonov, V.N., O.V. Andryushchenko, A.P. Shpak, A.N. Yaresko and O. Jepsen.* Electronic structure, optical spectra, and x-ray magnetic circular dichroism in  $\text{CoS}_2$ . Physical Review B **78**, 094409 (2008).

*Antonov, V.N., D.A. Kukusta, A.P. Shpak and A.N. Yaresko.* Electronic structure and x-ray magnetic circular dichroism in the Heusler alloy  $\text{Co}_2\text{FeSi}$ . Condensed Matter Physics **11**, 627–639 (2008).

*Antonov, V.N., D.A. Kukusta and A.N. Yaresko.* X-ray magnetic circular dichroism in  $\text{CeFe}_2$ : First-principles calculations. Physical Review B **78**, 094401 (2008).

Antonov, V. see Liu, G.Q.

*Ashino, M., D. Obergfell, M. Haluska, S. Yang, A.N. Khlobystov, S. Roth and R. Wiesendanger.* Atomically resolved mechanical response of individual metallofullerene molecules confined inside carbon nanotubes. *Nature* **3**, 337–341 (2008).

Assig, M. see Ast, C.R.

*Ast, C.R., M. Assig, A. Ast and K. Kern.* Design criteria for scanning tunneling microscopes to reduce the response to external mechanical disturbances. *Review of Scientific Instruments* **79**, 093704 (2008).

*Ast, C.R., D. Pacilé, L. Moreschini, M.C. Falub, M. Papagno, K. Kern, M. Grioni, J. Henk, A. Ernst, S. Ostanin and P. Bruno.* Spin-orbit split two-dimensional electron gas with tunable Rashba and Fermi energy. *Physical Review B* **77**, 081407 (2008).

Ast, C.R. see Frantzeskakis, E.; Gierz, I.; Moreschini, L.

*Atkinson, P., S. Kiravittaya, M. Benyoucef, A. Rastelli and O.G. Schmidt.* Site-controlled growth and luminescence of InAs quantum dots using in situ Ga-assisted deoxidation of patterned substrates. *Applied Physics Letters* **93**, 101908 (2008).

*Aydemir, U., A. Ormeci, H. Borrmann, B. Böhme, F. Zurcher, B. Uslu, T. Goebel, W. Schnelle, P. Simon, W. Carrillo-Cabrera, F. Haarmann, M. Baitinger, R. Nesper, H.G. von Schnering and Y. Grin.* The metallic Zintl phase Ba<sub>3</sub>Si<sub>4</sub> – Synthesis, crystal structure, chemical bonding, and physical properties. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 1651–1661 (2008).

*Aydogdu, G.H., Y. Kuru and H.-U. Habermeier.* Novel electronic and magnetic properties of La<sub>0.5</sub>Ca<sub>0.5</sub>MnO<sub>3</sub> films deposited on (111) SrTiO<sub>3</sub> substrates. *Journal of Crystal Growth* **310**, 4521–4524 (2008).

*Aynajian, P., T. Keller, L. Boeri, S.M. Shapiro, K. Habicht and B. Keimer.* Energy Gaps and Kohn Anomalies in Elemental Superconductors. *Science* **319**, 1509–1512 (2008).

*Babizhetsky, V., Hj. Mattausch and A. Simon.* Crystal Structure of the Terbium Borocarbide Tb<sub>2</sub>B<sub>2</sub>C<sub>3</sub>. *Zeitschrift für Naturforschung B* **63**, 929–933 (2008).

*Babizhetsky, V., Hj. Mattausch, A. Simon, K. Hiebl, M.B. Yahia, R. Gautier and J.-F. Halet.* New examples of ternary rare-earth metal boride carbides containing finite boron-carbon chains: The crystal and electronic structure of RE<sub>1.5</sub>B<sub>6</sub>C<sub>20</sub> (RE = Pr, Nd). *Journal of Solid State Chemistry* **181**, 1882–1890 (2008).

Babizhetsky, V. see Smetana, V.

*Balasubramanian, K. and M. Burghard.* Electrochemically functionalized carbon nanotubes for device applications. *Journal of Materials Chemistry* **18**, 3071–3083 (2008).

*Balasubramanian, K., M. Burghard and K. Kern.* Effect of the electronic structure of carbon nanotubes on the selectivity of electrochemical functionalization. *Physical Chemistry Chemical Physics* **10**, 2256–2262 (2008).

*Balasubramanian, K., E.J.H. Lee, R.T. Weitz, M. Burghard and K. Kern.* Carbon nanotube transistors – chemical functionalization and device characterization. *physica status solidi (a)* **205**, 633–646 (2008).

Balasubramanian, K. see Lee, E.J.H.; Scolari, M.; Sundaram, R.S.

*Balci, S., D. Leinberger, M. Knez, A.M. Bittner, F. Boes, A. Kadri, C. Wege, H. Jeske, E. Maiß and K. Kern.* Printing and aligning mesoscale patterns of tobacco mosaic viruses at surfaces. *Advanced Materials* **20**, 2195–2200 (2008).

*Baldassarre, L., A. Perucchi, D. Nicoletti, A. Toschi, G. Sangiovanni, K. Held, M. Capone, M. Ortolani, L. Malavasi, M. Marsi, P. Metcalf, P. Postorino and S. Lupi.* Quasiparticle evolution and pseudogap formation in V<sub>2</sub>O<sub>3</sub>: An infrared spectroscopy study. *Physical Review B* **77**, 113107 (2008).

*Barth, A. and W. Marx.* Mapping high-temperature superconductors – A scientometric approach. *Journal of Superconductivity and Novel Magnetism* **21**, 113–128 (2008).

*Baumann, F.S., J. Maier and J. Fleig.* The polarization resistance of mixed conducting SOFC cathodes: A comparative study using thin film model electrodes. *Solid State Ionics* **179**, 1198–1204 (2008).

*Baumeier, B., P. Krüger, J. Pollmann and G.V. Vajenine.* Electronic structure of alkali-metal fluorides, oxides, and nitrides: Density-functional calculations including self-interaction corrections. *Physical Review B* **78**, 125111 (2008).

*Behrens, U., R.E. Dinnebier, S. Neander and F. Olbrich.* Solid-State Structures of Base-Free Rubidium and Cesium Pentamethylcyclopentadienides. Determination by High-Resolution Powder Diffraction. *Organometallics* **27**, 5398–5400 (2008).

*Benyoucef, M., S. Kiravittaya, Y.F. Mei, A. Rastelli and O.G. Schmidt.* Strongly coupled semiconductor microcavities: A route to couple artificial atoms over micrometric distances. *Physical Review B* **77**, 035108 (2008).

*Bernardi, A., S. Kiravittaya, A. Rastelli, R. Songmuang, D.J. Thurmer, M. Benyoucef and O.G. Schmidt.* On-chip Si/SiO<sub>x</sub> microtube refractometer. *Applied Physics Letters* **93**, 094106 (2008).

*Bernhard, C., L. Yu, A. Dubroka, K.W. Kim, M. Rössle, D. Munzar, J. Chaloupka, C.T. Lin and T. Wolf.* Broadband infrared ellipsometry measurements of the c-axis response of underdoped YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub>: Spectroscopic distinction between the normal-state pseudogap and the superconducting gap. *Journal of Physics and Chemistry of Solids* **69**, 3064–3069 (2008).

*Bertoni, C., V. Skakalova and S. Roth.* Layer-by-layer deposition of ultra-thin films of carbon nanotubes. *Physica E* **40**, 2257–2262 (2008).

Bester, G. see Franceschetti, A.

*Beyazyildirim, S., K.-D. Kreuer, M. Schuster, A.J. Bhattacharyya and J. Maier.* Heterogeneous doping of a weak covalent electrolyte: Proton conductivity enhancement of imidazole by admixture of oxide particles. *Advanced Materials* **20**, 1274–1278 (2008).

*Boeri, L., O.V. Dolgov and A.A. Golubov.* Is LaO<sub>1-x</sub>F<sub>x</sub>FeAs an electron-phonon superconductor? *Physical Review Letters* **101**, 026403 (2008).

*Boeri, L., J.S. Kim, M. Giantomassi, F.S. Razavi, S. Kuroiwa, J. Akimitsu and R.K. Kremer.* Pressure effects on the superconducting transition in nH-CaAlSi. *Physical Review B* **77**, 144502 (2008).

Boeri, L. see Aynajian, P.; Marini, C.; Mazin, I.I.

*Bohnenbuck, B., I. Zegkinoglou, J. Stempfer, C. Schüßler-Langeheine, C.S. Nelson, P. Leininger, H.-H. Wu, E. Schierle, J.C. Lang, G. Srainer, S.I. Ikeda, Y. Yoshida, K. Iwata, S. Katano, N. Kikugawa and B. Keimer.* Magnetic structure and orbital state of Ca<sub>3</sub>Ru<sub>2</sub>O<sub>7</sub> investigated by resonant x-ray diffraction. *Physical Review B* **77**, 224412 (2008).

Bohnenbuck, B. see Nelson, C.S.; Stempfer, J.

Boris, A. see Yu, L.

Bose, S. see Brihuega, I.

*Bouwman, W.G., J. Plomp, V.O. De Haan, W.H. Kraan, A.A. van Well, K. Habicht, T. Keller and M.T. Rekveldt.* Real-space neutron scattering methods. *Nuclear Instruments & Methods in Physics Research A* **586**, 9–14 (2008).

*Brihuega, I., P. Mallet, C. Bena, S. Bose, C. Michaelis, L. Vitali, F. Varchon, L. Magaud, K. Kern and J.Y. Veillette.* Quasiparticle Chirality in Epitaxial Graphene Probed at the Nanometer Scale. *Physical Review Letters* **101**, 206802 (2008).

*Brihuega, I., C. Michaelis, J. Zhang, S. Bose, V. Sessi, J. Honolka, M.A. Schneider, A. Enders and K. Kern.* Electronic decoupling and templating of Co nanoclusters arrays on the boron nitride nanomesh. *Surface Science* **602**, L95–L99 (2008).

Brihuega, I. see Vitali, L.; Zhang, J.

*Brydon, P.M.R.* Slave-boson theory of the extended Falicov-Kimball model. *Physical Review B* **77**, 045109 (2008).

*Brydon, P.M.R., B. Kastening, D.K. Morr and D. Manske.* Interplay of ferromagnetism and triplet superconductivity in a Josephson junction. *Physical Review B* **77**, 104504 (2008).

- Brydon, P.M.R. and D. Manske.* Localized states in triplet superconductor-ferromagnet-triplet superconductor junctions. *Journal of Physics: Condensed Matter* **20**, 434225 (2008).
- Brydon, P.M.R., D. Manske and M. Sigrist.* Origin and Control of Spin Currents in a Magnetic Triplet Josephson Junction. *Journal of the Physical Society of Japan* **77**, 103714 (2008).
- Brydon, P. see Manske, D.
- Brzezicki, W. and A.M. Oleś.* Exact ground state of a spin ladder with a quantum phase transition. *European Physical Journal B* **66**, 361–368 (2008).
- Bulychev, N., K. Dirnberger, I. Arutunov, P. Kopold, T. Schauer, V. Zubov and C.D. Eisenbach.* Effect of ultrasonic treatment on structure and properties of ethylhydroxyethylcellulose polymer adsorption layer on inorganic pigments in aqueous dispersion. *Progress in Organic Coatings* **62**, 299–306 (2008).
- Burghard, M.* A Freight Train of Nanotubes for Cargo Transport on the Nanoscale. *Angewandte Chemie International Edition* **47**, 8565–8566 (2008).
- Burghard, M. see Balasubramanian, K.; Forment-Aliaga, A.; Gómez-Navarro, C.; Häffner, M.; Haffner, M.; Lee, E.J.H.; Li, Y.; Scolari, M.; Sundaram, R.S.; Weitz, R.T.
- Bussmann-Holder, A. and A.R. Bishop.* Dimensional crossover and absence of quantum criticality in  $\text{SrTi}^{16}\text{O}_{1-x}^{18}\text{O}_x$ . *Physical Review B* **78**, 104117 (2008).
- Bussmann-Holder, A., H. Büttner and A.R. Bishop.* Coexistence of Polar Order and Local Domain Dynamics in Ferroelectric Perovskites: The Case of  $\text{SrTi}^{18}\text{O}_3$ . *Ferroelectrics* **363**, 73–78 (2008).
- Bussmann-Holder, A. and H. Keller.* Unconventional isotope effects, multi-component superconductivity and polaron formation in high temperature cuprate superconductors. *Journal of Physics: Conference Series* **108**, 012019 (2008).
- Bussmann-Holder, A., H. Keller, A. Bishop, A. Simon and K. Müller.* Polaron Coherence as Origin of the Pseudogap Phase in High Temperature Superconducting Cuprates. *Journal of Superconductivity and Novel Magnetism* **21**, 353–357 (2008).
- Bussmann-Holder, A. see Keller, H.; Khasanov, R.
- Cakmak, G. see Pitzschke, D.
- Čančarević, Ž.P., J.C. Schön and M. Jansen.* Stability of alkali metal halide polymorphs as a function of pressure. *Chemistry – An Asian Journal* **3**, 561–572 (2008).
- Cardona, M. and W. Marx.* Max Born and his legacy to condensed matter physics. *Annalen der Physik* **17**, 497–518 (2008).
- Cardona, M. and W. Marx.* Max Planck – A Conservative Revolutionary. *Il Nuovo Saggiatore* **24**, 39–54 (2008).
- Cardona, M. see Chantis, A.N.; Etchegoin, P.G.; Ramirez, R.; Romero, A.H.; Serrano, J.; Yang, A.
- Cavallo, F., W. Sigle and O.G. Schmidt.* Controlled fabrication of Cr/Si and Cr/SiGe tubes tethered to insulator substrates. *Journal of Applied Physics* **103**, 116103 (2008).
- Cavallo, F., R. Songmuang and O.G. Schmidt.* Fabrication and electrical characterization of Si-based rolled-up microtubes. *Applied Physics Letters* **93**, 143113 (2008).
- Chaloupka, J. and G. Khaliullin.* Orbital Order and Possible Superconductivity in  $\text{LaNiO}_3/\text{LaMO}_3$  Superlattices. *Physical Review Letters* **100**, 016404 (2008).
- Chaloupka, J. and G. Khaliullin.* Unusual Electron Correlations in  $\text{Na}_x\text{CoO}_2$  Due to the Spin-State Quasidegeneracy of Cobalt Ions. *Progress of Theoretical Physics, Supplement* **176**, 50–76 (2008).
- Chang, J.H., A. Zurn and H.G. von Schnering.* Hyperbolic Cation Diffusion Paths in  $\alpha\text{-RbAg}_4\text{I}_5$  Type Superionic Conductors. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 2156–2160 (2008).
- Chantis, A.N., M. Cardona, N.E. Christensen, D.L. Smith, M. van Schilfgaarde, T. Kotani, A. Svane and R.C. Albers.* Strain-Induced Conduction-Band Spin Splitting in GaAs from First-Principles Calculations. *Physical Review B* **78**, 075208 (2008).

*Chen, D.P., X.L. Wang, C.T. Lin and S.X. Dou.* Magnetic anisotropy of  $\text{Na}_x\text{CoO}_2$  single crystals. *Journal of Applied Physics* **103**, 07C702 (2008).

*Chiu, P.W.* Carbon nanotube T junctions: Formation and properties. *Journal of Nanoscience and Nanotechnology* **8**, 88–98 (2008).

*Chiu, P.W. and S. Roth.* Transition from direct tunneling to field emission in carbon nanotube intramolecular junctions. *Applied Physics Letters* **92**, 042107 (2008).

*Christ, A., G. Leveque, O.J.F. Martin, T. Zentgraf, J. Kuhl, C. Bauer, H. Giessen and S.G. Tikhodeev.* Near-field-induced tunability of surface plasmon polaritons in composite metallic nanostructures. *Journal of Microscopy* **229**, 344–353 (2008).

*Cimalla, V., C.C. Röhlig, J. Pezoldt, M. Niebelshütz, O. Ambacher, K. Brückner, M. Hein, J. Weber, S. Milenovic, A.J. Smith and A.W. Hassel.* Nanomechanics of single crystalline tungsten nanowires. *Journal of Nanomaterials* **2008**, 638947 (2008).

*Corzilius, B., K.P. Dinse, K. Hata, M. Haluska, V. Skakalova and S. Roth.* SWNT probed by multi-frequency EPR and nonresonant microwave absorption. *physica status solidi (b)* **245**, 2251–2254 (2008).

*Cui, G., L. Gu, L. Zhi, N. Kaskhedikar, P.A. van Aken, K. Müllen and J. Maier.* A Germanium-Carbon Nano-composite Material for Lithium Batteries. *Advanced Materials* **20**, 3079–3083 (2008).

Cui, G. see Demir-Cakan, R.

*Daghofer, M., P. Horsch and G. Khaliullin.* Spin structure and dynamical magnetic response of spin-orbital polarons in lightly doped cobaltates. In: *Proceedings of the NATO Advanced Study Institute on Quantum Magnetism*; 49–55 (2008); B. Barbara, Y. Imry, G. Sawatzky, P.C.E. Stamp (Eds.). Les Houches, France, 2006. Springer Verlag, Berlin/Heidelberg, Germany.

*Daghofer, M., R.M. Noack and P. Horsch.* Magnetism of one-dimensional Wigner lattices and its impact on charge order. *Physical Review B* **78**, 205115 (2008).

*Daghofer, M., K. Wohlfeld, A.M. Oleś, E. Arrigoni and P. Horsch.* Absence of hole confinement in transition-metal oxides with orbital degeneracy. *Physical Review Letters* **100**, 066403 (2008).

*Das, H., T. Saha-Dasgupta, C. Gros and R. Valenti.* Proposed low-energy model Hamiltonian for the spin-gapped system  $\text{CuTe}_2\text{O}_5$ . *Physical Review B* **77**, 224437 (2008).

*Delmer, O., P. Balaya, L. Kienle and J. Maier.* Enhanced potential of amorphous electrode materials: Case study of  $\text{RuO}_2$ . *Advanced Materials* **20**, 501–505 (2008).

*Demir-Cakan, R., Y.-S. Hu, M. Antonietti, J. Maier and M.-M. Titirici.* Facile one-pot synthesis of mesoporous  $\text{SnO}_2$  microspheres via nanoparticles assembly and lithium storage properties. *Chemistry of Materials* **20**, 1227–1229 (2008).

*Demir-Cakan, R., M.M. Titirici, M. Antonietti, G.L. Cui, J. Maier and Y.S. Hu.* Hydrothermal carbon spheres containing silicon nanoparticles: synthesis and lithium storage performance. *Chemical Communications* **2008**, 3759–3761 (2008).

*Deneke, C., J. Schumann, R. Engelhard, J. Thomas, W. Sigle, U. Zschieschang, H. Klauk, A. Chuvalin and O.G. Schmidt.* Fabrication of radial superlattices based on different hybrid materials. *physica status solidi (c)* **5**, 2704–2708 (2008).

*Deng, S., A. Simon and J. Köhler.* Calcium d States: Chemical Bonding of  $\text{CaC}_6$ . *Angewandte Chemie International Edition* **47**, 6703–6706 (2008).

Dietsche, W. see Muravev, V.M.; Stern, O.; Tiemann, L.

*Dinnebier, R.E. and S.J.L. Billinge.* Powder Diffraction: Theory and Practice. In: *Powder Diffraction Theory and Practice*, 574 (2008); R.E. Dinnebier, S.J.L. Billinge (Eds.). Royal Society of Chemistry Publishing, 1<sup>st</sup> Edition, Cambridge, UK.

*Dinnebier, R.E. and M. Jansen.* The Crystal Structure of  $[\text{Mg}_2(\text{H}_2\text{O})_6(\text{HCO}_3)_3]^+ \text{Cl}^-$ , Containing a Magnesium-based Hetero-polycation. *Zeitschrift für Naturforschung B* **63**, 1347–1351 (2008).

*Dinnebier, R.E., Y.Liebold-Ribeiro and M.Jansen.* The low and high temperature crystal structures of  $[Mg(H_2O_6)]XBr_3$  double salts ( $X = Rb, Cs$ ). Zeitschrift für anorganische und allgemeine Chemie **634**, 1857–1862 (2008).

Dinnebier, R. see Behrens, U.; Hinrichsen, B.; Moustafa, A.M.; Schmidt, C.L.; Shopova, D.

*Dolgov, O.V., O.K.Andersen and I.I.Mazin.* Self-consistent theory of phonon renormalization and electron-phonon coupling near a two-dimensional Kohn singularity. Physical Review B **77**, 014517 (2008).

*Dolgov, O.V. and A.A.Golubov.* Magnetic structure and orbital state of  $Ca_3Ru_2O_7$  investigated by resonant x-ray diffraction. Physical Review B **77**, 214526 (2008).

*Dolgov, O.V. and A.A.Golubov.* Strong electron-phonon interaction in multiband superconductors. Physical Review B **77**, 214526 (2008).

*Dolgov, O.V., A.A.Golubov, I.I.Mazin and E.G.Maksimov.* Critical temperature and the giant isotope effect in the presence of paramagnons. Journal of Physics: Condensed Matter **20**, 434226 (2008).

Dolgov, O. see Boeri, L.; Parker, D.

*Doll, K.* Electronic structure of GdN, and the influence of exact exchange. Journal of Physics: Condensed Matter **20**, 075214 (2008).

*Doll, K., J.C.Schön and M.Jansen.* Structure prediction based on ab initio simulated annealing. Journal of Physics: Conference Series **117**, 12014 (2008).

*Doll, K., J.C.Schön and M.Jansen.* Structure prediction based on ab initio simulated annealing for boron nitride. Physical Review B **78**, 144110 (2008).

Doll, K. see Judele, R.; Klein, M.; Schoenes, J.

*Donkov, A., M.M.Korshunov, I.Eremin, P.Lemmens, V.Gnezdilov, F.C.Chou and C.T.Lin.* Electron-phonon interaction in the lamellar cobaltate  $Na_xCoO_2$ . Physical Review B **77**, 100504R (2008).

Dorfmüller, J. see Esteban, R.; Vogelgesang, R.; Zentgraf, T.

*Drillet, J.F., H.Bueb, R.Dittmeyer, U.Dettlaff-Weglikowska and S.Roth.* The impact of purification and functional analyzing of carbon nanotubes on their catalytic properties in the Direct Methanol Fuel Cell-Anode. Chemie Ingenieur Technik **80**, 1711–1718 (2008).

*Epple, L., K.Amsharov, K.Simeonov, I.Dix and M.Jansen.* Crystallographic characterization and identification of a minor isomer of  $C_{84}$  fullerene. Chemical Communications **2008**, 5610–5612 (2008).

*Errandonea, D., D.Santamaría-Perez, A.Vegas, J.Nuss, M.Jansen, P.Rodríguez-Hernandez and A.Muñoz.* Structural stability of  $Fe_5Si_3$  and  $Ni_2Si$  studied by high-pressure x-ray diffraction and ab initio total-energy calculations. Physical Review B **77**, 094113 (2008).

*Esteban, R., R.Vogelgesang, J.Dorfmüller, A.Dmitriev, C.Rockstuhl, C.Etrich and K.Kern.* Direct Near-Field Optical Imaging of Higher Order Plasmonic Resonances. Nano Letters **8**, 3155–3159 (2008).

*Etchegoin, P.G., M.Cardona, R.Lauck, R.J.H.Clark, J.Serrano and A.H.Romero.* Temperature-Dependent Raman Scattering of Natural and Isotopically Substituted PbS. physica status solidi (b) **245**, 1125–1132 (2008).

Evarestov, R.A. see Alexandrov, V.E.

*Ferrari, A.C., V.Skakalova, C.Po-Wen, A.Bachtold and D.Golberg.* Science and technology of nanotubes, nanowires and graphene – Preface. Physica E **40**, VII–VIII (2008).

*Ferrer-Anglada, N., J.P.Puigdemont and S.Roth.* Impedance and quantitative TGA characterization of transparent carbon nanotube thin films. physica status solidi (b) **245**, 2276–2279 (2008).

Fischer, D. see Liebold-Ribeiro, Y.; Pfeiffer, S.

*Fleig, J., H.-R.Kim, J.Jamnik and J.Maier.* Oxygen Reduction Kinetics of Lanthanum Manganite (LSM) Model Cathodes: Partial Pressure Dependence and Rate-Limiting Steps. Fuel Cells **8**, 330–337 (2008).

*Forment-Aliaga, A., R.T. Weitz, A.S. Sagar, E.J.H. Lee, M. Konuma, M. Burghard and K. Kern.* Strong p-Type Doping of Individual Carbon Nanotubes by Prussian Blue Functionalization. *Small* **4**, 1671–1675 (2008).

Fortunatov, A. see Muravev, V.M.

*Franceschetti, A., S. Lany and G. Bester.* Quantum-dot intermediate-band solar cells with inverted band alignment. *Physica E* **41**, 15–17 (2008).

*Frantzeskakis, E., S. Pons, H. Mirhosseini, J. Henk, C.R. Ast and M. Grioni.* Tunable Spin Gaps in a Quantum-Confining Geometry. *Physical Review Letters* **101**, 196805 (2008).

*Freire, H., E. Correa and A. Ferraz.* Breakdown of the Fermi-liquid regime in the two-dimensional Hubbard model from a two-loop field-theoretical renormalization group approach. *Physical Review B* **78**, 125114 (2008).

*Gaston, N., B. Paulus, U. Wedig and M. Jansen.* Multiple Minima on the Energy Landscape of Elemental Zinc – a Wave Function based Ab-Initio Study. *Physical Review Letters* **100**, 226404 (2008).

*Gerhardts, R.R.* The effect of screening on current distribution and conductance quantisation in narrow quantum Hall systems. *physica status solidi (b)* **245**, 378–392 (2008).

Gerhardts, R.R. see Nachtwei, G.

*Gersch, R., C. Honerkamp and W. Metzner.* Superconductivity in the attractive Hubbard model: functional renormalization group analysis. *New Journal of Physics* **10**, 045003 (2008).

*Gierz, I., C. Riedl, U. Starke, C.R. Ast and K. Kern.* Atomic Hole Doping of Graphene. *Nano Letters* **8**, 4603–4607 (2008).

*Glinka, Y.D., D. Maryenko and J.H. Smet.* Thickness-tunable terahertz plasma oscillations in a semiconductor slab excited by femtosecond optical pulses. *Physical Review B* **78**, 035328 (2008).

*Glocke, S., A. Klümper and J. Sirker.* Density-Matrix Renormalization Group for Transfer Matrices: Static and Dynamical Properties of 1D Quantum Systems at Finite Temperature. *Lecture Notes in Physics* **739**, 665–677 (2008).

*Gnezdilov, V., P. Lemmens, A.A. Zvyagin, V.O. Cherenovskii, K. Lamonova, Y.G. Pashkevich, R.K. Kremer and H. Berger.* Magnetic crossover and complex excitation spectrum of the ferromagnetic/antiferromagnetic spin-1/2 chain system  $\alpha$ -TeVO<sub>4</sub>. *Physical Review B* **78**, 184407 (2008).

*Göktas, O., J. Weber, J. Weis and K. von Klitzing.* Alloyed ohmic contacts to two-dimensional electron system in AlGaAs/GaAs heterostructures down to submicron length scale. *Physica E* **40**, 1579–1581 (2008).

Göktas, O. see Isik, N.

*Gonnelli, R.S., D. Daghero, D. Delaude, M. Tortello, G.A. Ummarino, V.A. Stepanov, J.S. Kim, R.K. Kremer, A. Sanna, G. Profeta and S. Massidda.* Evidence for gap anisotropy in CaC<sub>6</sub> from directional point-contact spectroscopy. *Physical Review Letters* **100**, 207004 (2008).

*Grafe, H.J., F. Hammerath, A. Vyalikh, G. Urbanik, V. Kataev, T. Wolf, G. Khaliullin and B. Büchner.* Contrasting spin dynamics in Zn- and Ni-doped NdBa<sub>2</sub>Cu<sub>3</sub>O<sub>6+y</sub> single crystals from Cu nuclear quadrupole resonance: Evidence for correlations between antiferromagnetism and pseudogap effects. *Physical Review B* **77**, 014522 (2008).

*Groma, G.I., J. Hebling, I.Z. Kozma, G. Váró, J. Hauer, J. Kuhl and E. Riedle.* Terahertz radiation from bacteriorhodopsin reveals correlated primary electron and proton transfer processes. *Proceedings of the National Academy of Sciences of the United States of America* **105**, 6888–6893 (2008).

*Gryaznov, D., J. Fleig and J. Maier.* An improved procedure for determining grain boundary diffusion coefficients from averaged concentration profiles. *Journal of Applied Physics* **103**, 063717 (2008).

*Gryaznov, D., J. Fleig and J. Maier.* Finite element simulation of diffusion into polycrystalline materials. *Solid State Sciences* **10**, 754–760 (2008).

*Gunnarsson, O.* Fullerides – Competition fix. *Nature Materials* **7**, 176–177 (2008).

*Gunnarsson, O. and O. Rösch.* Interplay between electron-phonon and Coulomb interactions in cuprates. *Journal of Physics: Condensed Matter* **20**, 043201 (2008).

Gunnarsson, O. see Koch, E.; Reznik, D.; Sangiovanni, G.

*Gómez-Navarro, C., M. Burghard and K. Kern.* Elastic Properties of Chemically Derived Single Graphene Sheets. *Nano Letters* **8**, 2045–2049 (2008).

*Habermeier, H.-U.* Ferromagnet-superconductor interfaces: the length scales of interactions. *Journal of Physics: Conference Series* **108**, 012039 (2008).

*Habermeier, H.-U.* Strategies towards controlling strain-induced mesoscopic phase separation in manganite thin films. *Journal of Physics: Condensed Matter* **20**, 434228 (2008).

*Habermeier, H.-U., G.Y. Zhang, X. Liu and P.X. Zhang.* Atomic layer thermopile and its application. *International Conference on Thermoelectrics* 21–22 (2008).

Habermeier, H.-U. see Antonakos, A.; Aydogdu, G.H.; Hoppler, J.; Uthayakumar, S.; Uthayakumar, S.; Wang, L.; Wang, Z.H.; Zhang, P.X.

*Häffner, M., A. Haug, R.T. Weitz, M. Fleischer, M. Burghard, H. Peisert, T. Chassé and D.P. Kern.* E-beam lithography of catalyst patterns for carbon nanotube growth on insulating substrates. *Microelectronic Engineering* **85**, 768–773 (2008).

*Haffner, M., A. Heeren, A. Haug, E. Schuster, A. Sagar, M. Fleischer, H. Peisert, M. Burghard, T. Chasse and D.P. Kern.* Catalyst patterning for carbon nanotube growth on elevating posts by self-aligned double-layer electron beam lithography. *Journal of Vacuum Science & Technology B* **26**, 2447–2450 (2008).

*Hannemann, A., C. Schön and M. Jansen.* Thermodynamic stability of solid and fluid phases in the Si<sub>3</sub>B<sub>3</sub>N<sub>7</sub> system. *Philosophical Magazine* **88**, 1037–1057 (2008).

Haug, D. see Hinkov, V.

Haverkort, M. see Veenendaal van, M.

*Heid, R., K.P. Bohnen, R. Zeyher and D. Manske.* Momentum dependence of the electron-phonon coupling and self-energy effects in superconducting YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> within the local density approximation. *Physical Review Letters* **100**, 137001 (2008).

Heifets, E. see Kotomin, E.A.; Piskunov, S.

*Held, K., O.K. Andersen, M. Feldbacher, A. Yamasaki and Y.-F. Yang.* Bandstructure meets many-body theory: The LDA+DMFT method. *Journal of Physics: Condensed Matter* **20**, 064202 (2008).

*Held, K., A.A. Katanin and A. Toschi.* Dynamical Vertex Approximation – An Introduction. *Progress of Theoretical Physics, Supplement* **2008**, 117–133 (2008).

*Herrera Diez, L., R.K. Kremer, A. Enders, M. Rössle, E. Arac, J. Honolka, K. Kern, E. Placidi and F. Arciprete.* Complex domain-wall dynamics in compressively strained Ga<sub>1-x</sub>Mn<sub>x</sub>As epilayers. *Physical Review B* **78**, 155310 (2008).

Herzog, A. see Sirker, J.

Hetzel, M. see Virojanadara, C.

*Hinkov, V., D. Haug, B. Fauqué, P. Bourges, Y. Sidis, A. Ivanov, C. Bernhard, C.T. Lin and B. Keimer.* Electronic Liquid Crystal State in the High-Temperature Superconductor YBa<sub>2</sub>Cu<sub>3</sub>O<sub>6.45</sub>. *Science* **319**, 597–600 (2008).

Hinkov, V. see White, J.S.

*Hinrichsen, B., R.E. Dinnebier and M. Jansen.* Two-dimensional Diffraction Using Area Detectors. In: Powder Diffraction Theory and Practice, 414–437 (2008); R.E. Dinnebier, S.J.L. Billing (Eds.). Royal Society of Chemistry Publishing, Cambridge, UK.

*Hinrichsen, B., R.E. Dinnebier, H.Z. Liu and M. Jansen.* The high pressure crystal structures of tin sulphate: a case study for maximal information recovery from 2D powder diffraction data. *Zeitschrift für Kristallographie* **223**, 195–203 (2008).

- Hoch, C. and A. Simon.* Cs<sub>2</sub>Hg<sub>27</sub>, the mercury-richest amalgam with close relationship to the Bergman phases. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 853–856 (2008).
- Hoch, C. and A. Simon.* Hexaaquadibromideeuropium(III) bromide, [EuBr<sub>2</sub>(H<sub>2</sub>O)<sub>6</sub>]Br. *Acta Crystallographica E* **64**, i35 (2008).
- Hoch, C. see Lefevre, C.; Mattausch, Hj.; Reckeweg, O.; Zheng, C.
- Honolka, J. see Brihuega, I.; Herrera Diez, L.; Skomski, R.; Zhang, J.
- Hoppler, J., J. Stahn, H. Bouyanif, V.K. Malik, B.D. Patterson, P.R. Willmott, G. Cristiani, H.-U. Habermeier and C. Bernhard.* X-ray study of structural domains in the near-surface region of SrTiO<sub>3</sub> substrates with Y<sub>0.6</sub>Pr<sub>0.4</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/La<sub>2/3</sub>Ca<sub>1/3</sub>MnO<sub>3</sub> superlattices grown on top. *Physical Review B* **78**, 134111 (2008).
- Hore, S., G. Kaiser, Y.-S. Hu, A. Schulz, M. Konuma, G. Götz, W. Sigle, A. Verhoeven and J. Maier.* Carbonization of polyethylene on gold oxide. *Journal of Materials Chemistry* **18**, 5589–5591 (2008).
- Hornbostel, B., U. Leute, P. Pötschke, J. Kotz, D. Kornfeld, P.-W. Chiu and S. Roth.* Attenuation of electromagnetic waves by carbon nanotube composites. *Physica E* **40**, 2425–2429 (2008).
- Hornbostel, B., P. Pötschke, J. Kotz and S. Roth.* Mechanical properties of triple composites of polycarbonate, single-walled carbon nanotubes and carbon fibres. *Physica E* **40**, 2434–2439 (2008).
- Horsch, P., A.M. Oleś, L.F. Feiner and G. Khaliullin.* Evolution of spin-orbital-lattice coupling in the RVO<sub>3</sub> perovskites. *Physical Review Letters* **100**, 167205 (2008).
- Horsch, P. see Daghofer, M.; Sirker, J.; Wohlfeld, K.
- Hu, Y.-S., R. Demir-Cakan, M.-M. Titirici, J.-O. Müller, R. Schlögl, M. Antonietti and J. Maier.* Superior storage performance of a Si@SiO<sub>x</sub>/C nanocomposite as anode material for lithium-ion batteries. *Angewandte Chemie International Edition* **47**, 1645–1649 (2008).
- Huang, Z., W. Bensch, W. Sigle, P.A. van Aken, L. Kienle, T. Vitoja, H. Modrow and T. Ressler.* The modification of MoO<sub>3</sub> nanoparticles supported on mesoporous SBA-15: characterization using X-ray scattering, N<sub>2</sub> physisorption, transmission electron microscopy, high-angle annular darkfield technique, Raman and XAFS spectroscopy. *Journal of Materials Science* **43**, 244–253 (2008).
- Huang, Z.D., W. Bensch, L. Kienle, S. Fuentes, G. Alonso and C. Ornelas.* SBA-15 as support for MoS<sub>2</sub> and Co-MoS<sub>2</sub> catalysts derived from thiomolybdate complexes in the reaction of HDS of DBT. *Catalysis Letters* **122**, 57–67 (2008).
- Huang, Z.D., W. Bensch, L. Kienle, S. Fuentes, G. Alonso and C. Ornelas.* Preparation and characterization of SBA-15 supported cobalt-molybdenum sulfide catalysts for HDS reaction: An all sulfide route to hydrodesulfurization catalysts. *Catalysis Letters* **124**, 24–33 (2008).
- Hübel, A., K. Held, J. Weis and K. von Klitzing.* Correlated Electron Tunneling through Two Separate Quantum Dot Systems with Strong Capacitive Interdot Coupling. *Physical Review Letters* **101**, 186804 (2008).
- Hübel, A., J. Weis and K. von Klitzing.* Precise experimental characterization of a double quantum dot system with strong capacitive interdot coupling. *Physica E* **40**, 1573–1575 (2008).
- Hugonin, Z., M. Johnsson, S. Lidin, D. Wulferding, P. Lemmens and R.K. Kremer.* Anomalous low-temperature behavior of the Co dimers in the oxo-halide CoSb<sub>2</sub>O<sub>3</sub>Br<sub>2</sub>. *Journal of Solid State Chemistry* **181**, 2776–2782 (2008).
- Hulman, M., M. Haluska, G. Scalia, D. Obergfell and S. Roth.* Effects of Charge Impurities and Laser Energy on Raman Spectra of Graphene. *Nano Letters* **8**, 3594–3597 (2008).
- Huppertz, H., P. Kroll and R. Merkle.* Festkörperchemie 2007. *Nachrichten aus der Chemie* **56**, 258–268 (2008).
- Ignatenko, A.N., A.A. Katanin and V.Y. Irkhin.* Strong short-range magnetic order in a frustrated fcc lattice and its possible role in the iron structural transformation. *JETP Letters* **87**, 555–559 (2008).
- Isik, N., M. Bichler, S.F. Roth, A.F.I. Morral, O. Göktas and M. Grayson.* Shadow modulated two-dimensional heterostructures using vertical pillars. *Applied Physics Letters* **92**, 173505 (2008).

*Jackeli, G. and G. Khaliullin.* Spin, Orbital, and Charge Order at the Interface between Correlated Oxides. Physical Review Letters **101**, 216804 (2008).

*Jackeli, G. and D.I. Khomskii.* Classical Dimers and Dimerized Superstructure in an Orbitally Degenerate Honeycomb Antiferromagnet. Physical Review Letters **100**, 147203 (2008).

*Jakubczyk, P., P. Strack, A.A. Katanin and W. Metzner.* Renormalization group for phases with broken discrete symmetry near quantum critical points. Physical Review B **77**, 195120 (2008).

Jamnik, J. see Fleig, J.

*Jansen, M.* The Deductive Approach to Chemistry, a Paradigm Shift. In: Turning points in Solid-State, Materials and Surface Science, 22–50 (2008); K.M. Harris, P.P. Edwards (Eds.). RSC Publishing, Cambridge, UK.

*Jansen, M.* The chemistry of gold as an anion. Chemical Society Reviews **37**, 1826–1835 (2008).

*Jansen, M. and U. Wedig.* A Piece of the Picture-Misunderstanding of Chemical Concepts. Angewandte Chemie International Edition **47**, 10026–10029 (2008).

*Jansen, M.* see Amsharov, K.Y.; Čančarević, Ž.P.; Dinnebier, R.E.; Doll, K.; Epple, L.; Errandonea, D.; Gaston, N.; Hannemann, A.; Hinrichsen, B.; Kandaiah, S.; Kazin, P.E.; Klein, W.; Lancaster, T.; Liebold-Ribeiro, Y.; Liu, X.-X.; Moustafa, A.M.; Mühlé, C.; Müller, U.; Nuss, H.; Oberndorfer, C.P.M.; Pentin, I.V.; Pfeiffer, S.; Pitzschke, D.; Raichle, M.; Schmidt, C.L.; Schön, J.C.; Schulz-Dobrick, M.; Sehlleier, Y.H.; Sharma, S.; Shopova, D.; Simeonov, K.; Wawrzynska, E.; Weinmann, M.; Weitz, R.T.; Yoshida, H.

*Jauch, W. and M. Reehuis.* Electron density distribution in ferromagnetic nickel: A  $\gamma$ -ray diffraction study. Physical Review B **78**, 235113 (2008).

Jepsen, O. see Antonov, V.N.; Kent, P.R.C.; Liu, G.Q.; Sushkov, O.P.

*Jochym, P.T., K. Parlinski and A.M. Oleś.* Ab initio calculations of magnetic structure and lattice dynamics of Fe/Pt multilayers. European Physical Journal B **61**, 173–179 (2008).

Johnsson, M. see Hugonin, Z.

*Judele, R., M.J. Dix, S. Laschat, A. Baro, M. Nimtz, D. Menzel, J. Schoenes, K. Doll, G. Zwicknagl and M. Niemeyer.* Novel Azamacrocycles as potential precursors for metallomesogens: synthesis, conformational analysis and magnetic properties of their LnIII, CuII and FeIII complexes. Zeitschrift für anorganische und allgemeine Chemie **634**, 299–310 (2008).

*Julien, M.H., C. de Vaulx, H. Mayaffre, C. Berthier, M. Horvatić, V. Simonet, J. Wooldridge, G. Balakrishnan, M.R. Lees, D.P. Chen, C.T. Lin and P. Lejay.* Electronic texture of the thermoelectric oxide  $\text{Na}_{0.75}\text{CoO}_2$ . Physical Review Letters **1**, 096405 (2008).

*Kaempgen, M., M. Lebert, M. Haluska, N. Nicoloso and S. Roth.* Sonochemical optimization of the conductivity of single wall carbon nanotube networks. Advanced Materials **20**, 616–620 (2008).

*Kaempgen, M., M. Lebert, N. Nicoloso and S. Roth.* Multifunctional carbon nanotube networks for fuel cells. Applied Physics Letters **92**, 094103 (2008).

*Kaempgen, M., M. Lebert, S. Roth, M. Soehn and N. Nicoloso.* Fuel cells based on multifunctional carbon nanotube networks. Journal of Power Sources **180**, 755–759 (2008).

*Kaiser, A.B., V. Skakalova and S. Roth.* Modelling conduction in carbon nanotube networks with different thickness, chemical treatment and irradiation. Physica E **40**, 2311–2318 (2008).

*Kanchana, V., G. Vaitheswaran and A. Svane.* Calculated structural, elastic and electronic properties of  $\text{SrCl}_2$ . Journal of Alloys and Compounds **455**, 480–484 (2008).

*Kandaiah, S., E.-M. Peters and M. Jansen.* Electrococrystallization of Tetra- and Hexa-coordinated Silver(II) Compounds Based on 4,4'-Dimethyl-2,2'-Bipyridine Ligand – Single Crystal Structures and Magnetic Studies. Zeitschrift für anorganische und allgemeine Chemie **634**, 2483–2486 (2008).

*Karachevtsev, V.A., G.O. Gladchenko, M.V. Karachevtsev, A.Y. Glamazda, V.S. Leontiev, O.S. Lytvyn and U. Dettlaff-Weglikowska.* RNA-Wrapped Carbon Nanotubes Aggregation Induced by Polymer Hybridization. *Molecular Crystals and Liquid Crystals* **497**, 339–351 (2008).

Kaskhedikar, N. see Cui, G.

*Kasper, N.V., P. Wochner, A. Vigliante, H. Dosch, G. Jakob, H.D. Carstanjen and R.K. Kremer.* Epitaxial growth and properties of (001)-oriented  $TbBaCo_2O_{6-\delta}$  films. *Journal of Applied Physics* **103**, 013907 (2008).

*Katanin, A.A. and V.Y. Irkhin.* Spectral functions of two-dimensional systems with coupling of electrons to collective or localized spin degrees of freedom. *Physical Review B* **77**, 115129 (2008).

Katanin, A. see Held, K.; Ignatenko, A.N.; Jakubczyk, P.; Yamase, H.

*Katsaros, G., J. Tersoff, M. Stoffel, A. Rastelli, P. Acosta-Diaz, G.S. Kar, G. Costantini, O.G. Schmidt and K. Kern.* Positioning of strained islands by interaction with surface nanogrooves. *Physical Review Letters* **101**, 096103 (2008).

*Kazin, P.E., L.A. Trusov, D.D. Zaitsev, Y.D. Tretyakov and M. Jansen.* Formation of submicron-sized  $SrFe_{12-x}Al_xO_{19}$  with very high coercivity. *Journal of Magnetism and Magnetic Materials* **320**, 1068–1072 (2008).

*Kazin, P.E., M.A. Zykin, Y.D. Tret'yakov and M. Jansen.* Synthesis and properties of colored copper-containing apatites of composition  $Ca_5(PO_4)_3Cu_yO_{y+\delta}(OH)_{0.5-y-\delta}X_{0.5}$  ( $X = OH, F, Cl$ ). *Russian Journal of Inorganic Chemistry* **53**, 362–366 (2008).

Keimer, B. see Aynajian, P.; Bohnenbuck, B.; Hinkov, V.; Raichle, M.; Reehuis, M.; Ulrich, C.; Yu, L.

*Keller, H., A. Bussmann-Holder and K.A. Müller.* Jahn-Teller physics and high- $T_c$  superconductivity. *Materials Today* **11**, 38–46 (2008).

Keller, T. see Aynajian, P.; Bouwman, W.G.

*Kent, P.R.C., T. Saha-Dasgupta, O. Jepsen, O.K. Andersen, A. Macridin, T.A. Maier, M. Jarrell and T.C. Schulthess.* Combined density-functional and dynamical cluster quantum Monte Carlo calculations for three-band Hubbard models for hole-doped cuprate superconductors. *Physical Review B* **78**, 035132 (2008).

Kern, K. see Ast, C.R.; Balasubramanian, K.; Balci, S.; Brihuega, I.; Esteban, R.; Forment-Aliaga, A.; Gierz, I.; Gómez-Navarro, C.; Herrera Diez, L.; Katsaros, G.; Klappenberger, F.; Langner, A.; Lee, E.J.H.; Negulyaev, N.N.; Rastelli, A.; Schlickum, U.; Scolari, M.; Singh, G.; Skomski, R.; Sundaram, R.S.; Tait, S.L.; Vitali, L.; Vogelgesang, R.; Wahl, P.; Weitz, R.T.; Yang, Y.A.; Zentgraf, T.; Zhang, J.; Zhu, M.; Zurek, E.

*Khaliullin, G. and J. Chaloupka.* Origin of strong correlations and superconductivity in  $Na_xCoO_2$ . *Physical Review B* **77**, 104532 (2008).

Khaliullin, G. see Chaloupka, J.; Daghofer, M.; Grafe, H.J.; Horsch, P.; Jackeli, G.; Mori, M.

*Khasanov, R., A. Shengelaya, D. Di Castro, E. Morenzoni, A. Maisuradze, I.M. Savic, K. Conder, E. Pomjakushina, A. Bussmann-Holder and H. Keller.* Oxygen isotope effects within the phase diagram of  $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$ . *Physical Review Letters* **101**, 077001 (2008).

*Khasanov, R., A. Shengelaya, J. Karpinski, A. Bussmann-Holder, H. Keller and K.A. Müller.* *s*-Wave Symmetry Along the *c*-Axis and *s+d* In-plane Superconductivity in Bulk  $YBa_2Cu_4O_8$ . *Journal of Superconductivity and Novel Magnetism* **21**, 81–85 (2008).

*Khasanov, R., S. Strässle, K. Conder, E. Pomjakushina, A. Bussmann-Holder and H. Keller.* Universal correlations of isotope effects in  $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$ . *Physical Review B* **77**, 104530 (2008).

*Kienle, L., M.C. Schaloske, Hj. Mattausch, V. Duppel and A. Simon.* Discoveries in real crystals of rare earth metal compounds by electron microscopy – Lamellar intergrowth and domains of phasoids. *Solid State Sciences* **10**, 401–407 (2008).

Kim, J.S. see Boeri, L.; Gonnelli, R.S.; Nagel, U.

Kiravittaya, S., M. Benyoucef, R. Zapf-Gottwick, A. Rastelli and O.G. Schmidt. Optical fine structure of single ordered GaAs quantum dots. *Physica E* **40**, 1909–1912 (2008).

Kiravittaya, S., A. Bernardi, A. Rastelli, R. Songmuang, D.J. Thurmer, M. Benyoucef and O.G. Schmidt. Numerical investigation of optical response from rolled-up microtube resonator and its application. In: Proceedings of the 10<sup>th</sup> Anniversary International Conference, 45–45 (2008); Athens, Greece, 2008. National Institute of Telecommunications, Warsaw; Athens Information Technology; IEEE/LEOS Poland Chapter.

Kiravittaya, S. and O.G. Schmidt. Quantum-dot crystal defects. *Applied Physics Letters* **93**, 173109 (2008).

Kircan, M. Impurity resonant state in *d*-wave superconductors: in favor of a Kondo-like response. *Physical Review B* **77**, 214508 (2008).

Klappenberger, F., M.E. Cañas-Ventura, S. Clair, S. Pons, U. Schlickum, Z.-R. Qu, T. Strunskus, A. Comisso, C. Wöll, H. Brune, K. Kern, A. De Vita, M. Ruben and J.V. Barth. Does the surface matter? Hydrogen bonded chain formation of an oxalic amide derivative in two and three dimensional environment. *ChemPhysChem* **9**, 2522–2530 (2008).

Klauk, H. Nanowires' display of potential. *Nature* **451**, 533–534 (2008).

Klauk, H. see Deneke, C.; Sekitani, T.; Weitz, R.T.; Zschieschang, U.

Klein, M., D. Zur, D. Menzel, J. Schoenes, K. Doll, J. Röder and F. Reinert. Evidence for Itineracy in the Anticipated Kondo Insulator FeSi: A Quantitative Determination of the Band Renormalization. *Physical Review Letters* **101**, 046406 (2008).

Klein, W. and M. Jansen. Synthesis and Crystal Structure of Silver Nesosilicate, Ag<sub>4</sub>SiO<sub>4</sub>. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 1077–1081 (2008).

Klitzing von, K. see Andreev, I.V.; Göktas, O.; Hübel, A.; Lee, D.S.; Martin, J.; Muravev, V.M.; Ospald, F.; Stern, O.; Tiemann, L.; Weber, J.; Zhuravlev, A.S.

Ko, V., K.L. Teo, T. Liew, T.C. Chong, T. Liu, A.T.S. Wee, A.Y. Du, M. Stoffel and O.G. Schmidt. Correlation of structural and magnetic properties of ferromagnetic Mn-implanted Si<sub>1-x</sub>Ge<sub>x</sub> films. *Journal of Applied Physics* **103**, 053912 (2008).

Koch, E., G. Sangiovanni and O. Gunnarsson. Sum rules and bath parametrization for quantum cluster theories. *Physical Review B* **78**, 115102 (2008).

Köhler, J. Square-Planar Coordinated Iron in the Layered Oxoferate(II) SrFeO<sub>2</sub>. *Angewandte Chemie International Edition* **47**, 4470–4472 (2008).

Köhler, J. and M.-H. Whangbo. Late transition metal anions acting as p-metal elements. *Solid State Sciences* **10**, 444–449 (2008).

Köhler, J. and M.H. Whangbo. Electronic structure study of the [Ag-Ag]<sup>4-</sup>, [Au-Au]<sup>4-</sup>, and [Hg-Hg]<sup>2-</sup> zintl anions in the intermetallic compounds Yb<sub>3</sub>Ag<sub>2</sub>, Ca<sub>5</sub>Au<sub>4</sub>, and Ca<sub>3</sub>Hg<sub>2</sub>: Transition metal anions as p-metal elements. *Chemistry of Materials* **20**, 2751–2756 (2008).

Köhler, J. see Deng, S.; Lee, C.; Mattausch, Hj.

Konuma, M. see Forment-Aliaga, A.; Hore, S.; Oberndorfer, C.P.M.; Rahmati, B.; Yang, A.; Zhu, M.

Kotomin, E.A., Y.A. Mastrikov, E. Heifets and J. Maier. Adsorption of atomic and molecular oxygen on the LaMnO<sub>3</sub>(001) surface: *ab initio* supercell calculations and thermodynamics. *Physical Chemistry Chemical Physics* **10**, 4644–4649 (2008).

Kotomin, E.A., Y.A. Mastrikov, E. Heifets, R. Merkle, J. Fleig, J. Maier, A. Gordon and J. Felsteiner. First-Principles Modeling of LaMnO<sub>3</sub> SOFC Cathode Materia. *ECS Transactions* **13**, 301–306 (2008).

Kotomin, E.A., S. Piskunov, Y.F. Zhukovskii, R.I. Eglitis, A. Gopejenko and D.E. Ellis. The electronic properties of an oxygen vacancy at ZrO<sub>2</sub>-terminated (001) surfaces of a cubic PbZrO<sub>3</sub>: computer simulations from the first principles. *Physical Chemistry Chemical Physics* **10**, 4258–4263 (2008).

Kotomin, E. see Alexandrov, V.E.; Piskunov, S.; Zhukovskii, Y.F.

*Kozlova, S.G., S.P. Gabuda, G.A. Berezovskii, D.P. Pischur, Y.V. Mironov, A. Simon and V.E. Fedorov.* Quantum chemical study and low-temperature calorimetry of phase transition  $V_4S_9Br_4$ . Journal of Solid State Chemistry **181**, 2877–2881 (2008).

Krauss, B. see Lee, D.S.

Kremer, R. see Boeri, L.; Gnedilov, V.; Gonnelli, R.S.; Herrera Diez, L.; Hugonin, Z.; Kasper, N.V.; Lefevre, C.; Liu, X.; Nagel, U.; Romero, A.H.; Ryazanov, M.; Serrano, J.; Wontcheu, J.

*Kreuer, K.-D., M. Schuster, B. Obliers, O. Diat, U. Traub, A. Fuchs, U. Klock, S.J. Paddison and J. Maier.* Short-side-chain proton conducting perfluorosulfonic acid ionomers: Why they perform better in PEM fuel cells. Journal of Power Sources **178**, 499–509 (2008).

Kreuer, K.-D. see Beyazyildirim, S.; Schuster, M.; Weber, J.

Krokos, E. see Simeonov, K.

*Krstic, V., D. Obergfell, S. Hensel, G.L.J.A. Rikken, J.H. Blokland, M.S. Ferreira and S. Roth.* Graphene-Metal Interface: Two-Terminal Resistance of Low-Mobility Graphene in High Magnetic Fields. Nano Letters **8**, 1700–1703 (2008).

Kukushkin, I. see Andreev, I.V.; Muravev, V.M.; Zhuravlev, A.S.

*Kunc, K., I. Loa and K. Syassen.* High-pressure phases of lithia  $Li_2O$ : First-principles calculations. Physical Review B **77**, 094110 (2008).

Kunstmann, J. see Quandt, A.

Kuru, Y. see Aydogdu, G.H.

*Lagerwall, J.P.F., J.T. McCann, E. Formo, G. Scalia and Y. Xia.* Coaxial electrospinning of microfibres with liquid crystal in the core. Chemical Communications **2008**, 5420–5422 (2008).

*Lagerwall, J.P.F. and G. Scalia.* Carbon nanotubes in liquid crystals. Journal of Materials Chemistry **18**, 2890–2898 (2008).

*Lancaster, T., S.J. Blundell, P.J. Baker, M.L. Brooks, W. Hayes, F.L. Pratt, R. Coldea, T. Sörgel and M. Jansen.* Anomalous temperature evolution if the internal magnetic field distribution in the charge ordered triangular antiferromagnet  $AgNiO_2$ . Physical Review Letters **100**, 017206 (2008).

*Langner, A., S.L. Tait, N. Lin, R. Chandrasekar, M. Ruben and K. Kern.* Ordering and Stabilization of Metal-Organic Coordination Chains by Hierarchical Assembly through Hydrogen Bonding at a Surface. Angewandte Chemie International Edition **47**, 8835–8838 (2008).

Langner, A. see Tait, S.L.

*Laroze, D., P. Vargas, C. Cortes and G. Gutierrez.* Dynamics of two interacting dipoles. Journal of Magnetism and Magnetic Materials **320**, 1440–1448 (2008).

*Lee, C., M.-H. Whangbo and J. Köhler.* Analysis of Electronic structures and Chemical Bonding of Metal-Rich Compounds. I. Density Functional Study of Pt Metal,  $LiPt_2$ ,  $LiPt$  and  $Li_2Pt$ . Journal of Computational Chemistry **29**, 2154–2160 (2008).

*Lee, D.S., C. Riedl, B. Krauss, K. von Klitzing, U. Starke and J.H. Smet.* Raman Spectra of Epitaxial Graphene on SiC and of Epitaxial Graphene Transferred to  $SiO_2$ . Nano Letters **8**, 4320–4325 (2008).

Lee, D.S. see Yu, H.Y.

*Lee, E.J.H., K. Balasubramanian, R.T. Weitz, M. Burghard and K. Kern.* Contact and edge effects in graphene devices. Nature Nanotechnology **3**, 486–490 (2008).

Lee, E. see Balasubramanian, K.; Forment-Aliaga, A.

*Lee, S.H., M. Weinmann, P. Gerstel, G. Rixecker, S.C. Choi and F. Aldinger.* Novel precursor-derived Al-C-N-(O)-based ceramic additive for the low-temperature pressureless sintering of silicon nitride. Materials Research **23**, 1713–1721 (2008).

*Lefevre, C., C. Hoch, R.K. Kremer and A. Simon.* Structures and magnetic properties of some layered iodides  $R_2Co_2I$  ( $R = La, Y, Pr, Nd, Tb-Ho$ ). *Solid State Sciences* **10**, 1625–1633 (2008).

Leininger, P. see Bohnenbuck, B.

*Leoni, S., A.N. Yaresko, N. Perkins, H. Rosner and L. Craco.* Orbital-spin order and the origin of structural distortion in  $MgTi_2O_4$ . *Physical Review B* **78**, 125105 (2008).

*Levi, M.D., D. Aurbach and J. Maier.* Electrochemically driven first-order phase transitions caused by elastic responses of ion-insertion electrodes under external kinetic control. *Journal of Electroanalytical Chemistry* **624**, 251–261 (2008).

*Li, Y., L. Fernandez-Recio, P. Gerstel, V. Srot, P.A. van Aken, G. Kaiser, M. Burghard and J. Bill.* Chemical modification of single-walled carbon nanotubes for the reinforcement of precursor-derived ceramics. *Chemistry of Materials* **20**, 5593–5599 (2008).

*Liang, C.W., W.Y. Lee, C.H. Tsai and S. Roth.* In-situ observation on Raman spectra and transport properties of single-wall carbon nanotubes. *physica status solidi (b)* **245**, 2209–2211 (2008).

*Liang, C.W. and S. Roth.* Electrical and optical transport of GaAs/carbon nanotube heterojunctions. *Nano Letters* **8**, 1809–1812 (2008).

*Liang, C.W., S. Sahakalian and S. Roth.* Electrical characterization of the mutual influences between gas molecules and single-walled carbon nanotubes. *Small* **4**, 432–436 (2008).

*Liebold-Ribeiro, Y., D. Fischer and M. Jansen.* Experimental substantiation of the ‘energy landscape concept’ for solids: Synthesis of a new modification of lithium bromide. *Angewandte Chemie International Edition* **47**, 4428–4431 (2008).

*Lima, M.D., M.J. de Andrade, C.P. Bergmann and S. Roth.* Thin, conductive, carbon nanotube networks over transparent substrates by electrophoretic deposition. *Journal of Materials Chemistry* **18**, 776–779 (2008).

Lin, C. see Amin, R.; Bernhard, C.; Chen, D.P.; Donkov, A.; Hinkov, V.; Julien, M.H.; Matano, K.; Rhyee, J.S.; Sun, G.L.; Yu, L.

*Liu, G.Q., V.N. Antonov, O. Jepsen and O.K. Andersen.* Coulomb-Enhanced Spin-Orbit Splitting: The Missing Piece in the  $Sr_2RhO_4$  Puzzle. *Physical Review Letters* **101**, 026408 (2008).

*Liu, X., R. Dronskowski, R.K. Kremer, M. Ahrens, C. Lee and M.-H. Whangbo.* Characterization of the magnetic and structural properties of copper carbodiimide, CuNCN, by neutron diffraction and first-principles evaluations of its spin exchange interactions. *The Journal of Physical Chemistry* **112**, 11013 (2008).

*Liu, X.-X., C.P.M. Oberndorfer and M. Jansen.* Electrochemical De-/intercalation of Silver for  $Ag_2NiO_2$  and  $AgNiO_2$ . *Journal of the Electrochemical Society* **155**, E1–E6 (2008).

Lohmann, T. see Martin, J.

*Lukachuk, M., L. Kienle, C. Zheng, Hj. Mattausch and A. Simon.*  $Gd_7I_{12}Zn$ : A Group 12 Atom in the Octahedral  $Gd_6$  Cluster. *Inorganic Chemistry* **47**, 4656–4660 (2008).

*Maier, J.* Space charge effects in confined ceramic systems. *International Journal of Materials Research* **99**, 24–25 (2008).

*Maier, J.* Neue Wege der Batterieforschung. In: *Zukunft der Energie*, 282–294 (2008); P. Gruss, F. Schüth (Eds.). Verlag C.H. Beck, München, Germany.

*Maier, J. and R. Amin.* Defect chemistry of  $LiFePO_4$ . *Journal of The Electrochemical Society* **155**, A339–A344 (2008).

Maier, J. see Alexandrov, V.E.; Amin, R.; Baumann, F.S.; Beyazyildirim, S.; Cui, G.; Delmer, O.; Demir-Cakan, R.; Fleig, J.; Gryaznov, D.; Hore, S.; Hu, Y.-S.; Kotomin, E.A.; Kreuer, K.-D.; Levi, M.D.; Merkle, R.; Rahmati, B.; Riess, I.; Sahner, K.; Schuster, M.; Wang, L.; Weber, J.; Zhang, J.; Zhi, L.

*Malachias, A., S. Kycia, R. Magalhaes-Paniago and G. Medeiros-Ribeiro.* X-ray analysis of strain, composition and elastic energy in Ge islands on Si(001). *International Journal of Nanotechnology* **5**, 1340–1370 (2008).

*Malachias, A., Y.F. Mei, R.K. Annabattula, C. Deneke, P.R. Onck and O.G. Schmidt.* Wrinkled-up nanochannel networks: Long-range ordering, scalability, and X-ray investigation. *ACS Nano* **2**, 1715–1721 (2008).

Malinowski, N. see Singh, G.; Zurek, E.

*Manske, D. and P.M.R. Brydon.* Green's function analysis in triplet superconductor-ferromagnet-triplet superconductor Josephson junctions. *Journal of Physics: Conference Series* **108**, 012042 (2008).

Manske, D. see Brydon, P.M.R.; Heid, R.; Unterhinninghofen, J.

*Marini, C., E. Arcangeletti, D. Di Castro, L. Baldassare, A. Perucchi, S. Lupi, L. Malavasi, L. Boeri, E. Pomjakushina, K. Conder and P. Postorino.* Optical properties of  $V_{1-x}Cr_xO_2$  compounds under high pressure. *Physical Review B* **77**, 235111 (2008).

*Martin, J., N. Akerman, G. Ulbricht, T. Lohmann, J.H. Smet, K. von Klitzing and A. Yacoby.* Observation of electron-hole puddles in graphene using a scanning single-electron transistor. *Nature Physics* **4**, 144–148 (2008).

*Marx, W. and A. Barth.* Carbon nanotubes – A scientometric study. *physica status solidi (b)* **245**, 2347–2351 (2008).

Marx, W. see Barth, A.; Cardona, M.

Maryenko, D. see Glinka, Y.D.; Ospald, F.

*Matano, K., C.T. Lin and G.-q. Zheng.* Hydration-induced anisotropic spin fluctuations in  $Na_xCoO_2 \cdot 1.3H_2O$  superconductor. *Europhysics Letters* **84**, 57010 (2008).

*Mattausch, Hj., C. Hoch and A. Simon.* The lanthanumiodideethanide o- $La_5I_9(C_2)$  – The orthorhombic high temperature modification. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 641–645 (2008).

*Mattausch, Hj., O. Oeckler and A. Simon.* Rare earth halides  $Ln_4X_5Z$ . Part 3: The chloride  $La_4Cl_5B_4$  – Preparation, structure, and relation to  $La_4Br_5B_4$ ,  $La_4I_5B_4$ . *Zeitschrift für anorganische und allgemeine Chemie* **634**, 503–506 (2008).

*Mattausch, Hj., M.C. Schaloske, C. Hoch and A. Simon.* Rare earth halides  $Ln_4X_5Z$ . Part 2: An orthorhombic variant of  $Ln_4X_5Z$  structure. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 498–502 (2008).

*Mattausch, Hj., M.C. Schaloske, C. Hoch, C. Zheng and A. Simon.* Rare earth halides  $Ln_4X_5Z$ . Part 1: C and/or  $C_2$  in  $Ln_4X_5Z$ . *Zeitschrift für anorganische und allgemeine Chemie* **634**, 491–497 (2008).

*Mattausch, Hj. and A. Simon.* Crystal structure of trilanthanum-triiodide-monoethanide,  $C_2I_3La_3$ . *Zeitschrift für Kristallographie: New Crystal Structures* **223**, 107–108 (2008).

*Mattausch, Hj., A. Simon, L. Kienle, J. Köhler, C. Hoch and J. Nuss.* Sheets of  $La_6C_2$  Octahedra in Lanthanum Carbide Chlorides – undulated and plane. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 2765–2776 (2008).

Mattausch, Hj. see Babizhetskyy, V.; Kienle, L.; Lukachuk, M.; Schaloske, M.C.; Weber, T.; Zheng, C.

*Mazin, I.I., M.D. Johannes, L. Boeri, K. Koepernik and D.J. Singh.* Problems with reconciling density functional theory calculations with experiment in ferropnictides. *Physical Review B* **78**, 085104 (2008).

*Mei, Y.F., G.S. Huang, A.A. Solovev, E.B. Urena, I. Moench, F. Ding, T. Reindl, R.K.Y. Fu, P.K. Chu and O.G. Schmidt.* Versatile Approach for Integrative and Functionalized Tubes by Strain Engineering of Nanomembranes on Polymers. *Advanced Materials* **20**, 4085–4090 (2008).

*Mendach, S., S. Kiravittaya, A. Rastelli, M. Benyoucef, R. Songmuang and O.G. Schmidt.* Bidirectional wavelength tuning of individual semiconductor quantum dots in a flexible rolled-up microtube. *Physical Review B* **78**, 035317 (2008).

*Merkle, R. and J. Maier.* Wie wird Sauerstoff in Oxide eingebaut? Kinetische Studie einer “simplen” Feststoffreaktion am Modellmaterial  $SrTiO_3$ . *Angewandte Chemie* **120**, 3936–3958 (2008).

*Merkle, R. and J. Maier.* How is Oxygen Incorporated into Oxides? A Comprehensive Kinetic Study of a Simple Solid-State Reaction with  $SrTiO_3$  as a Model Material. *Angewandte Chemie International Edition* **47**, 3874–3894 (2008).

Merkle, R.E. see Huppertz, H.; Kotomin, E.A.; Sahner, K.; Wang, L.

*Metzner, W. and L. Dell'Anna.* Non-Fermi Liquid Behavior from Critical Fermi Surface Fluctuations. *Progress of Theoretical Physics, Supplement* **2008**, 22–43 (2008).

Metzner, W. see Gersch, R.; Jakubczyk, P.; Strack, P.

Michaelis, C. see Brihuega, I.; Zhang, J.

*Mitzkus, C., W. Wegscheider, V. Umanski, K. Eberl and D. Weiss.* Interaction-induced temperature-dependent switching of the phase of commensurability oscillations in a one-dimensional lateral superlattice. *physica status solidi (b)* **245**, 303–308 (2008).

*Moreschini, L., A. Bendounan, C.R. Ast, F. Reinert, M. Falub and M. Grioni.* Effect of rare-gas adsorption on the spin-orbit split bands of a surface alloy: Xe on Ag(111)- $((\sqrt{3} \times \sqrt{3})R30^\circ$ -Bi. *Physical Review B* **77**, 115407 (2008).

*Mori, M., G. Khaliullin, T. Tohyama and S. Maekawa.* Origin of the Spatial Variation of the Pairing Gap in Bi-Based High Temperature Cuprate Superconductors. *Physical Review Letters* **101**, 247003 (2008).

*Moustafa, A.M., R.E. Dinnebier, S.T. Nasser and M. Jansen.* Synthesis and crystal structure determination of two dispiro compounds from laboratory x-ray powder diffraction data. *Crystal Research and Technology* **43**, 205–213 (2008).

*Mühle, C. and M. Jansen.* Zur Löslichkeit von Cobalt(IV) in Li<sub>8</sub>SiO<sub>6</sub>. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 37–38 (2008).

*Mühle, C. and M. Jansen.* On the solubility of Cobalt(IV) in Li<sub>8</sub>SiO<sub>6</sub>. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 37–38 (2008).

*Müller, U., M. Weinmann and M. Jansen.* Cl<sub>2</sub>MeSi-NH-BCl<sub>2</sub> and ClMe<sub>2</sub>Si-NH-BCl<sub>2</sub>. Novel processable single source precursors of amorphous Si/C/B/N ceramics. *Journal of Materials Chemistry* **18**, 3671–3679 (2008).

*Muravev, V.M., I.V. Andreev, I.V. Kukushkin, J.H. Smet and K. von Klitzing.* Experimental determination of the mean free path of screened edge magnetoplasmons in a two-dimensional electron gas. *JETP Letters* **87**, 577–580 (2008).

*Muravev, V.M., A.A. Fortunatov, I.V. Kukushkin, J.H. Smet, W. Dietsche and K. von Klitzing.* Tunable Plasmonic Crystals for Edge Magnetoplasmons of a Two-Dimensional Electron System. *Physical Review Letters* **101**, 216801 (2008).

*Nachtwei, G., F. Gouider, C. Stellmach, G. Vasile, Y.B. Vasilyev, G. Hein and R.R. Gerhardts.* Double-peak structure of the nonresonant photoresponse of terahertz quantum Hall detectors. *Physical Review B* **78**, 174305 (2008).

*Nagel, U., D. Hüvonen, E. Joon, J.S. Kim, R.K. Kremer and T. Rööm.* Far-infrared signature of the superconducting gap in intercalated graphite CaC<sub>6</sub>. *Physical Review B* **78**, 041404R (2008).

*Negulyaev, N.N., V.S. Stepanyuk, P. Bruno, L. Diekhöner, P. Wahl and K. Kern.* Bilayer growth of nanoscale Co islands on Cu(111). *Physical Review B* **77**, 125437 (2008).

*Nelson, C.S., H. Mo, B. Bohnenbuck, J. Strempfer, N. Kikugawa, S.I. Ikeda and Y. Yoshida.* Field-induced structural changes in Ca<sub>3</sub>Ru<sub>2</sub>O<sub>7</sub>. *Physica B* **403**, 1577–1578 (2008).

*Nikolic, P.M., D. Lukovic, W. König, M.V. Nikolic, V. Blagojevic, S.S. Vujatovic, S. Savic and B. Stamenovic.* Far infrared properties of iron doped single crystal PbTe. *Journal of Optoelectronics and Advanced Materials* **10**, 145–148 (2008).

*Nikolic, P.M., D. Lukovic, S.S. Vujatovic, K.M. Paraskevopoulos, M.V. Nikolic, V. Blagojevic, T.T. Zorba, B. Stamenovic and W. König.* Far infrared reflectivity spectra of lead-telluride doped with Ytterbium. *Journal of Alloys and Compounds* **466**, 319–322 (2008).

*Nikolic, P.M., K.M. Paraskevopoulos, S.S. Vujatovic, M.V. Nikolic, A. Bojicic, T.T. Zorba, B. Stamenovic, V. Blagojevic, M. Jovic, M. Dasic and W. König.* Far infrared study of local impurity modes of Gd doped PbTe. *Materials Chemistry and Physics* **112**, 496–499 (2008).

*Nikolic, P.M., S.S. Vujatovic, D.L. Golic, N.J. Labus, K.M. Paraskevopoulos, K.T. Zorbas, M.V. Nikolic, A. Bojicic, V. Blagojevic and W. König.* Far infrared spectroscopy of  $\text{Pb}_{0.85}\text{Sn}_{0.15}\text{Te}$  alloy doped with Ni. International Journal of Materials Research **99**, 1393–1396 (2008).

*Normand, B. and A.M. Oleś.* Frustration and entanglement in the  $t_{2g}$  spin-orbital model on a triangular lattice: Valence-bond and generalized liquid states. Physical Review B **78**, 094427 (2008).

*Nuss, H., J. Nuss and M. Jansen.* Dimensions of the Ozonide Anion in  $\text{M}([18]\text{crown-6})\text{O}_3 \cdot x \text{ NH}_3$  with  $\text{M} = \text{K}$  ( $x = 2$ ),  $\text{Rb}$  ( $x = 1$ ) and  $\text{Cs}$  ( $x = 8$ ). Zeitschrift für anorganische und allgemeine Chemie **634**, 1291–1295 (2008).

Nuss, J. see Errandonea, D.; Mattausch, Hj.; Nuss, H.; Weinmann, M.

Obergfell, D. see Ashino, M.; Hulman, M.; Krstic, V.

*Oberndorfer, C.P.M., M. Konuma and M. Jansen.* Electrochemical synthesis of perovskites in the system  $\text{K}/\text{Ba}/\text{Pr}/\text{Bi}/\text{O}$ . Zeitschrift für anorganische und allgemeine Chemie **634**, 579–586 (2008).

Ohmann, R. see Vitali, L.

Oleś, A. see Brzezicki, W.; Daghofer, M.; Horsch, P.; Jochym, P.T.; Normand, B.; Rosciszewski, K.; Sirker, J.; Wohlfeld, K.

*Ospald, F., D. Maryenko, K. von Klitzing, D.C. Driscoll, M.P. Hanson, H. Lu, A.C. Gossard and J.H. Smet.*  $1.55 \mu\text{m}$  ultrafast photoconductive switches based on ErAs:InGaAs. Applied Physics Letters **92**, 131117 (2008).

Park, Y.W. see Yu, H.Y.

*Parker, D., O.V. Dolgov, M.M. Korshunov, A.A. Golubov and I.I. Mazin.* Extended  $s_{\pm}$  scenario for the nuclear spin-lattice relaxation rate in superconducting pnictides. Physical Review B **78**, 134524 (2008).

Peng, J. see Rhyee, J.S.

*Pentin, I.V., J.C. Schön and M. Jansen.* Ab initio prediction of the low-temperature phase diagrams in the systems  $\text{CsX-LiX}$  ( $\text{X} = \text{F}, \text{Cl}, \text{Br}, \text{I}$ ). Solid State Sciences **10**, 804–813 (2008).

Pentin, I. see Schön, J.C.

*Pfeiffer, S., D. Fischer and M. Jansen.* Synthesis and properties of  $\text{Rb}_6\text{Mn}_2\text{O}_6$ . Zeitschrift für anorganische und allgemeine Chemie **634**, 1673–1676 (2008).

*Pillay, D., M.D. Johannes, I.I. Mazin and O.K. Andersen.* Origin of  $a_{1g}$  and  $e_g'$  orderings in  $\text{Na}_x\text{CoO}_2$ . Physical Review B **78**, 012501 (2008).

*Piskunov, S., E. Heifets, T. Jacob, E.A. Kotomin, D.E. Ellis and E. Spohr.* Electronic structure and thermodynamic stability of  $\text{LaMnO}_3$  and  $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$  (001) surfaces: *Ab initio* calculations. Physical Review B **78**, 121406 (2008).

*Pitzschke, D., J. Curda, G. Cakmak and M. Jansen.*  $\text{Ag}_4\text{I}_2\text{SeO}_4$  and  $\text{Ag}_3\text{ITeO}_4$  – Two New Silver Solid Electrolytes. Zeitschrift für anorganische und allgemeine Chemie **634**, 1071–1076 (2008).

*Pitzschke, D., J. Curda, G. Cakmak and M. Jansen.*  $\text{Ag}_9\text{I}_3(\text{SeO}_4)_2(\text{IO}_3)_2$  – Synthesis, crystal structure, and ionic conductivity. Zeitschrift für anorganische und allgemeine Chemie **634**, 1907–1910 (2008).

*Ponou, S., T.E. Fässler and L. Kienle.* Structural complexity in intermetallic alloys: Long-periodic order beyond 10 nm in the system  $\text{BaSn}_3/\text{BaBi}_3$ . Angewandte Chemie International Edition **47**, 3999–4004 (2008).

*Quandt, A., C. Özdogan, J. Kunstmann and H. Fehske.* Functionalizing graphene by embedded boron clusters. Nanotechnology **19**, 335707 (2008).

*Quandt, A., C. Özdogan, J. Kunstmann and H. Fehske.* Boron doped graphene nanostructures. physica status solidi (b) **245**, 2077–2081 (2008).

*Queisser, H.-J.* Solidity is an imperfect state. Journal of Physics and Chemistry of Solids **69**, 256–258 (2008).

- Rafailov, P.M., C. Thomsen, U. Dettlaff-Weglikowska and S. Roth.* High levels of electrochemical doping of carbon nanotubes: Evidence for a transition from double-layer charging to intercalation and functionalization. *Journal of Physical Chemistry B* **112**, 5368–5373 (2008).
- Rafailov, P.M., C. Thomsen, M. Monev, U. Dettlaff-Weglikowska and S. Roth.* Electrochemical functionalization of SWNT bundles in acid and salt media as observed by Raman and X-ray photoelectron spectroscopy. *physica status solidi (b)* **245**, 1967–1970 (2008).
- Rahmati, B., W. Sigle, J. Fleig, M. Konuma, U. Eigenthaler, C. Koch, P.A. van Aken, J. Maier and M. Rühle.* Effect of surface orientation on intrinsic island formation on SrTiO<sub>3</sub> surfaces. *Journal of Physics: Conference Series* **94**, 012013 (2008).
- Raichle, M., M. Reehuis, G. André, L. Capogna, M. Sofin, M. Jansen and B. Keimer.* Incommensurate Spin-Density Modulation in a Copper Oxide Chain Compound with Commensurate Charge Order. *Physical Review Letters* **101**, 047202 (2008).
- Ramirez, R., C.P. Herrero, E.R. Hernández and M. Cardona.* Path-Integral Molecular Dynamics Simulation of 3C-SiC. *Physical Review B* **77**, 045210 (2008).
- Rastelli, A., M. Stoffel, A. Malachias, T. Merdhanova, G. Katsaros, K. Kern, T.H. Metzger and O.G. Schmidt.* Three-dimensional composition profiles of single quantum dots determined by scanning-probe-microscopy-based nanotomography. *Nano Letters* **8**, 1404–1409 (2008).
- Rastelli, A., M. Stoffel, T. Merdhanova and O.G. Schmidt.* Intermixing and composition profiles of strained SiGe islands on Si(001). *Journal of Physics: Condensed Matter* **20**, 454214 (2008).
- Rauschenbach, S. see Weitz, R.T.
- Razavi, F. see Boeri, L.
- Reckeweg, O., J.C. Molstad, S. Levy, C. Hoch and F.J. Disalvo.* Syntheses and crystal structures of Sr<sub>7</sub>H<sub>12</sub>X<sub>2</sub> (X = Cl, Br). *Zeitschrift für Naturforschung B* **63**, 513–518 (2008).
- Reckeweg, O., J. Reiherzer, A. Schulz and F.J. DiSalvo.* The last missing member of the AE<sub>2</sub>[BN<sub>2</sub>]Cl series – Synthesis, structural and spectroscopic characterization of Ba<sub>2</sub>[BN<sub>2</sub>]Cl. *Zeitschrift für Naturforschung B* **63**, 525–529 (2008).
- Reehuis, M., C. Ulrich, P. Pattison, M. Miyasaka, Y. Tokura and B. Keimer.* Crystal and magnetic structure of CeVO<sub>3</sub>. *European Physical Journal B* **64**, 27–34 (2008).
- Reehuis, M. see Jauch, W.; Raichle, M.
- Reznik, D., G. Sangiovanni, O. Gunnarsson and T.P. Devereaux.* Photoemission kinks and phonons in cuprates. *Nature* **455**, E6–E7 (2008).
- Rhyee, J.S., J.B. Peng, C.T. Lin and S.M. Lee.* Anisotropic magnetization and dynamic susceptibility sign change in single-crystal Na<sub>0.85</sub>CoO<sub>2</sub>. *Physical Review B* **77**, 205108 (2008).
- Rhyee, J.S., J.B. Peng, C.T. Lin and S.M. Lee.* Anisotropic Magnetization and Charge Density Wave in a Na<sub>0.78</sub>CoO<sub>2</sub> Single Crystal. *Journal of the Korean Physical Society* **52**, 391–395 (2008).
- Riedl, C., A.A. Zakharov and U. Starke.* Precise in situ thickness analysis of epitaxial graphene layers on SiC(0001) using low-energy electron diffraction and angle resolved ultraviolet photoelectron spectroscopy. *Applied Physics Letters* **93**, 033106 (2008).
- Riedl, C. see Gierz, I.; Lee, D.S.; Virojanadara, C.; Vitali, L.
- Riess, I. and J. Maier.* Symmetrized general hopping current equation. *Physical Review Letters* **100**, 205901 (2008).
- Robertson, J., G. Zhong, H. Telg, C. Thomsen, J.H. Warner, G.A.D. Briggs, U. Dettlaff-Weglikowska and S. Roth.* Growth and characterization of high-density mats of single-walled carbon nanotubes for interconnects. *Applied Physics Letters* **93**, 163111 (2008).
- Robertson, J., G. Zhong, H. Telg, C. Thomsen, J.M. Warner, G.A.D. Briggs, U. Dettlaff, S. Roth and J. Dijon.* Carbon nanotubes for interconnects in VLSI integrated circuits. *physica status solidi (b)* **245**, 2303–2307 (2008).

*Rockstuhl, C., T. Zentgraf, T.P. Meyrath, H. Giessen and F. Lederer.* Resonances in complementary metamaterials and nanoapertures. *Optics Express* **16**, 2080–2090 (2008).

*Roling, B., S. Murugavel, A. Heuer, L. Luhning, R. Friedrich and S. Rothel.* Field-dependent ion transport in disordered solid electrolytes. *Physical Chemistry Chemical Physics* **10**, 4211–4226 (2008).

*Romero, A.H., M. Cardona, R.K. Kremer, R. Lauck, G. Siegle, J. Serrano and X.C. Gonze.* Lattice properties of PbX (X = S, Se, Te): Experimental studies and ab initio calculations including spin-orbit effects. *Physical Review B* **78**, 224302 (2008).

*Rosciszewski, K. and A.M. Oleś.* Electron correlations – the origin of the CE phase in bilayer  $\text{La}_{2-2x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7$  manganites. *Journal of Physics: Condensed Matter* **20**, 365212 (2008).

Roth, S. see Ansaldo, A.; Ashino, M.; Bertoni, C.; Chiu, P.W.; Corzilius, B.; Drillet, J.F.; Ferrer-Anglada, N.; Hornbostel, B.; Hulman, M.; Isik, N.; Kaempgen, M.; Kaiser, A.B.; Krstic, V.; Liang, C.W.; Lima, M.D.; Rafailov, P.M.; Robertson, J.; Scialia, G.; Skakalova, V.; Yu, H.Y.

*Ryazanov, M., A. Simon and R.K. Kremer.* Magnetic freezing and spin frustration in the triangular lattice magnets  $\text{GdI}_2\text{H}_x$  ( $0 \leq x < 1$ ). *Physical Review B* **77**, 104423 (2008).

Sagar, A. see Forment-Aliaga, A.; Haffner, M.

*Saha, S., M. De Raychaudhury and T. Saha-Dasgupta.* *Ab initio* study of optical properties and magneto-optical Kerr effect in the pyrite compound  $\text{CoS}_2$ . *Physical Review B* **77**, 155428 (2008).

Sahakalkan, S. see Liang, C.W.

*Sahner, K., A. Schulz, J. Kita, R. Merkle, J. Maier and R. Moos.*  $\text{CO}_2$  Selective Potentiometric Sensor in Thick-film Technology. *Sensors* **8**, 4774–4785 (2008).

*Sangiovanni, G. and O. Gunnarsson.* Electron-phonon interaction in strongly correlated electron systems: relevance of antiferromagnetic correlations. *Journal of Physics: Conference Series* **108**, 012012 (2008).

Sangiovanni, G. see Baldassarre, L.; Koch, E.; Reznik, D.

*Scalia, G., C. von Bühl, C. Hägele, S. Roth, F. Giesselmann and J.P.F. Lagerwall.* Spontaneous macroscopic carbon nanotube alignment via colloidal suspension in hexagonal columnar lyotropic liquid crystals. *Soft Matter* **4**, 570–576 (2008).

Scalia, G. see Hulman, M.; Lagerwall, J.P.F.

*Schaloske, M.C., Hj. Mattausch, L. Kienle and A. Simon.*  $\text{Pr}_6\text{C}_2$ -Doppeltetraeder in  $\text{Pr}_6\text{C}_2\text{Cl}_{10}$  und  $\text{Pr}_6\text{C}_2\text{Cl}_5\text{Br}_5$ ; [Pr<sub>6</sub>C<sub>2</sub>-Bitetrahedra in Pr<sub>6</sub>C<sub>2</sub>Cl<sub>10</sub> and Pr<sub>6</sub>C<sub>2</sub>Cl<sub>5</sub>Br<sub>5</sub>]. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 1493–1500 (2008).

*Schaloske, M.C., Hj. Mattausch, L. Kienle and A. Simon.*  $\text{Pr}_{10}(\text{C}_2)_2\text{Br}_{16}$ : A New Structure with Discrete Octahedra Doubles. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 2246–2254 (2008).

*Schaloske, M.C., Hj. Mattausch and A. Simon.* Crystal structure of hexacerium decachloride dicarbide,  $\text{Ce}_6\text{Cl}_{10}\text{C}_2$ . *Zeitschrift für Kristallographie: New Crystal Structures* **223**, 189–190 (2008).

Schaloske, M. see Kienle, L.; Mattausch, Hj.

*Schlickum, U., R. Decker, F. Klappenberger, G. Zoppiellaro, S. Klyatskaya, W. Auwärter, K. Kern, H. Brune, M. Ruben and J.V. Barth.* Chiral Kagomé Lattice from Simple Ditopic Molecular Bricks. *Journal of the American Chemical Society* **130**, 11778–11782 (2008).

*Schmidt, C.L., U. Wedig, R.E. Dinnebier and M. Jansen.* Synthesis, Crystal Structure, Bonding, and Properties of  $(\text{Ba}_6\text{O})(\text{OsN}_3)_2$ . *Chemistry – An Asian Journal* **3**, 1983–1990 (2008).

Schnering von, H.G. see Aydemir, U.; Chang, J.H.; Chang, J.H.

Schön, C. see Hannemann, A.

*Schön, J.C., I.V. Pentin and M. Jansen.* Ab initio prediction of the low-temperature phase diagrams in the systems MBr-MCl (M = Li, Na, K). *Solid State Sciences* **10**, 455–460 (2008).

*Schön, J.C., Ž.P. Čančarević, A. Hannemann and M. Jansen.* Free enthalpy landscape of SrO. *Journal of Chemical Physics* **128**, 194712 (2008).

*Schoenes, J., A.M. Racu, K. Doll, Z. Bukowski and J. Karpinski.* Phonons and crystal structures of the  $\beta$ -pyrochlore superconductors  $KOs_2O_6$  and  $RbOs_2O_6$  from micro-Raman spectroscopy. *Physical Review B* **77**, 134515 (2008).

*Schulz-Dobrick, M. and M. Jansen.* Crystal structure and disorder phenomena of the adduct of neutral  $C_{60}$  and the ionic gold complex  $(Ptol)_2AuNO_3$ . *Zeitschrift für anorganische und allgemeine Chemie* **634**, 817–819 (2008).

*Schulz-Dobrick, M. and M. Jansen.* Intercluster compounds consisting of gold clusters and fullerides:  $[Au_7(PPh_3)_7]C_{60}\cdot THF$  and  $[Au_8(PPh_3)_8](C_{60})_2$ . *Angewandte Chemie International Edition* **47**, 2256–2259 (2008).

*Schulz-Dobrick, M. and M. Jansen.* Intermolecular forces in intercluster compounds consisting of gold clusters and fullerides and in a series of model compounds  $C_{60}2(PR_3)AuCl$ . *CrystEngComm* **10**, 661–664 (2008).

*Schulz-Dobrick, M. and M. Jansen.* Synthesis and Characterization of Intercluster Compounds Consisting of Various Gold Clusters and Differently Charged Keggin Anions. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 2880–2884 (2008).

*Schuster, M., K.-D. Kreuer, H. Steininger and J. Maier.* Proton conductivity and diffusion study of molten phosphonic acid  $H_3PO_3$ . *Solid State Ionics* **179**, 523–528 (2008).

*Scolari, M., A. Mews, N. Fu, A. Myalitsin, T. Assmus, K. Balasubramanian, M. Burghard and K. Kern.* Surface enhanced Raman scattering of carbon nanotubes by individual fluorescent gold particles. *Journal of Physical Chemistry C* **112**, 391–396 (2008).

*Sehlleier, Y.H., Y. Akdogan, A. Verhoeven, E. Roduner and M. Jansen.* EPR Studies of SiBNC Preceramic Polymers and Ceramic Employing Isotope Labeling. *Chemistry of Materials* **20**, 7563–7569 (2008).

*Sehlleier, Y.H., A. Verhoeven and M. Jansen.* Observation of direct bonds between carbon and nitrogen in Si-B-N-C ceramic after pyrolysis at 1400°C. *Angewandte Chemie International Edition* **47**, 3600–3602 (2008).

*Sekitani, T., Y. Noguchi, U. Zschieschang, H. Klauk and T. Someya.* Organic transistors manufactured using inkjet technology with subfemtoliter accuracy. *Proceedings of the National Academy of Sciences of the United States of America* **105**, 4976–4980 (2008).

*Sellner, S., A. Gerlach, S. Kowarik, F. Schreiber, H. Dosch, S. Meyer, J. Pflaum and G. Ulbricht.* Comparative study of the growth of sputtered aluminum oxide films on organic and inorganic substrates. *Thin Solid Films* **516**, 6377–6381 (2008).

*Serrano, J., R.K. Kremer, M. Cardona, G. Siegle, L.E. Díaz-Sánchez and A.H. Romero.* Specific heat of Sb: Isotopic and spin-orbit effects from measurements and ab initio calculations. *Physical Review B* **77**, 054303 (2008).

Sessi, V. see Brihuega, I.; Skomski, R.; Zhang, J.

*Sharma, S. and M. Jansen.* Hydrothermal synthesis of brucite type copper hydroxide squareate  $[Cu_3(OH)_2(C_4O_4)]\cdot 4H_2O$ . *Zeitschrift für anorganische und allgemeine Chemie* **634**, 1911–1914 (2008).

*Shopova, D., R.E. Dinnebier and M. Jansen.* Preparation and crystal structure determination of sulphur dioxide solvate crystals with cetyl- and dodecyltrimethylammonium bromide. *Zeitschrift für Naturforschung B* **63**, 1087–1092 (2008).

*Simeonov, K., K.Y. Amsharov, E. Krokos and M. Jansen.* An Epilogue on the  $C_{78}$ -Fullerene Family: The Discovery and Characterization of an Elusive Isomer. *Angewandte Chemie* **120**, 6379–6381 (2008).

*Simeonov, K.S., K.Y. Amsharov and M. Jansen.* Chlorinated Derivatives of  $C_{78}$ -Fullerene Isomers with Unusually Short Intermolecular Halogen-Halogen Contacts. *Chemistry – A European Journal* **14**, 9585–9590 (2008).

- Simeonov, K. see Epple, L.
- Simon, A. see Babizhetskyy, V.; Bussmann-Holder, A.; Deng, S.; Hoch, C.; Kienle, L.; Kozlova, S.G.; Lefevre, C.; Lukachuk, M.; Mattausch, Hj.; Ryazanov, M.; Schaloske, M.C.; Smetana, V.; Tragl, S.; Weber, T.; Zheng, C.
- Singh, G., A.M. Bittner, S. Loscher, N. Malinowski and K. Kern.* Electrospinning of Diphenylalanine Nanotubes. *Advanced Materials* **20**, 2332–2336 (2008).
- Sirker, J., J. Damerau and A. Klumper.* Hole doping of a Mott insulator with orbital degrees of freedom. *Physical Review B* **78**, 235125 (2008).
- Sirker, J., S. Fujimoto, N. Laflorencie, S. Eggert and I. Affleck.* Thermodynamics of impurities in the anisotropic Heisenberg spin-1/2 chain. *Journal of Statistical Mechanics* **2008**, P02015 (2008).
- Sirker, J., A. Herzog, A.M. Oleś and P. Horsch.* Thermally Activated Peierls Dimerization in Ferromagnetic Spin Chains. *Physical Review Letters* **101**, 157204 (2008).
- Sirker, J., R.G. Pereira, J.S. Caux, R. Hagemans, J.M. Maillet, S.R. White and I. Affleck.* Boson decay and the dynamical structure factor for the XXZ chain at finite magnetic field. *Physica B* **403**, 1520–1522 (2008).
- Sirker, J. see Glocke, S.
- Skakalova, V., A.B. Kaiser, U. Dettlaff, K. Arstila, A.V. Krasheninnikov, J. Keinonen and S. Roth.* Electrical properties of C<sup>4+</sup> irradiated single-walled carbon nanotube paper. *physica status solidi (b)* **245**, 2280–2283 (2008).
- Skakalova, V., A.B. Kaiser, Z. Osvath, G. Vertesy, L.P. Biro and S. Roth.* Ion irradiation effects on conduction in single-wall carbon nanotube networks. *Applied Physics A* **90**, 597–602 (2008).
- Skakalova, V., A.B. Kaiser and S. Roth.* Raman mode shifts correlated with conductivity and Young's modulus changes in modified carbon nanotube networks. *physica status solidi (RRL)* **2**, 62–64 (2008).
- Skomski, R., J. Zhang, V. Sessi, J. Honolka, K. Kern and A. Enders.* Substrate-controlled growth and magnetism of nanosize Fe clusters on Pt. *Journal of Applied Physics* **103**, 07D519 (2008).
- Smet, J. see Andreev, I.V.; Glinka, Y.D.; Lee, D.S.; Martin, J.; Muravev, V.M.; Ospald, F.; Zhuravlev, A.S.
- Smetana, V., V. Babizhetskyy and A. Simon.* Li<sub>x</sub>Na<sub>y</sub>Ba<sub>14</sub>LiN<sub>6</sub>: New representatives of the subnitride family. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 629–632 (2008).
- Smetana, V., V. Babizhetskyy, G.V. Vajenine and A. Simon.* Preparation and crystal structures of Li<sub>26</sub>Na<sub>58</sub>Ba<sub>38</sub>E<sub>x</sub> phases (E = N, H; x = 0–1). *Zeitschrift für anorganische und allgemeine Chemie* **634**, 849–852 (2008).
- Soehn, M., M. Lebert, T. Wirth, S. Hofmann and N. Nicoloso.* Design of gas diffusion electrodes using nano-carbon. *Journal of Power Sources* **176**, 494–498 (2008).
- Starke, U. see Gierz, I.; Lee, D.S.; Riedl, C.; Virojanadara, C.; Vitali, L.; Zhu, M.
- Stepanow, S., N. Lin and J.V. Barth.* Modular assembly of low-dimensional coordination architectures on metal surfaces. *Journal of Physics: Condensed Matter* **20**, 184002 (2008).
- Stepanow, S. see Vitali, L.
- Stern, O., D. Dini, N. Freytag, W. Dietsche, K. von Klitzing and W. Wegscheider.* A study of the domain structure at the spin transition of the fractional quantum Hall effect. *physica status solidi (b)* **245**, 428–438 (2008).
- Stoffel, M., A. Malachias, T. Merdzhanova, F. Cavallo, G. Isella, D. Chrastina, H. von Kanel, A. Rastelli and O.G. Schmidt.* SiGe wet chemical etchants with high compositional selectivity and low strain sensitivity. *Semiconductor Science and Technology* **23**, 085021 (2008).
- Strack, P., R. Gersch and W. Metzner.* Renormalization group flow for fermionic superfluids at zero temperature. *Physical Review B* **78**, 014522 (2008).
- Strack, P. see Jakubczyk, P.

*Strempfer, J., B. Bohnenbuck, I. Zegkinoglou, N. Aliouane, S. Landsgesell, M. v. Zimmermann and D.N. Argyriou.* Magnetic-field-induced transitions in multiferroic TbMnO<sub>3</sub> probed by resonant and nonresonant x-ray diffraction. *Physical Review B* **78**, 024429 (2008).

*Sun, G.L., Y.T. Song and C.T. Lin.* Investigation of YBa<sub>2</sub>Cu<sub>4</sub>O<sub>8</sub> single crystal growth by KOH flux. *Superconductor Science and Technology* **21**, 125001 (2008).

*Sundaram, R.S., C. Gómez-Navarro, K. Balasubramanian, M. Burghard and K. Kern.* Electrochemical Modification of Graphene. *Advanced Materials* **20**, 3050–3053 (2008).

*Sushkov, O.P., W. Xie, O. Jepsen, O.K. Andersen and G.A. Sawatzky.* Anisotropies in insulating La<sub>2-x</sub>Sr<sub>x</sub>CuO<sub>4</sub>: Angle-resolved photoemission and optical absorption. *Physical Review B* **77**, 035124 (2008).

*Syassen, K.* Ruby under pressure. *High Pressure Research* **28**, 75–126 (2008).

*Syassen, K.* see Kunc, K.

*Tait, S.L.* Function follows form: Exploring two-dimensional supramolecular assembly at surfaces. *ACS Nano* **2**, 617–621 (2008).

*Tait, S.L., A. Langner, N. Lin, R. Chandrasekar, O. Fuhr, M. Ruben and K. Kern.* Assembling Isostructural Metal-Organic Coordination Architectures on Cu(100), Ag(100) and Ag(111) Substrates. *ChemPhysChem* **9**, 2495–2499 (2008).

*Tait, S.L., Y. Wang, G. Costantini, N. Lin, A. Baraldi, F. Esch, L. Petaccia, S. Lizzit and K. Kern.* Metal-organic coordination interactions in Fe-Terephthalic acid networks on Cu(100). *Journal of the American Chemical Society* **130**, 2108–2113 (2008).

*Tait, S.* see Langner, A.

*Taraphder, A., M.S. Laad, L. Craco and A.N. Yaresko.* GdI<sub>2</sub>: A new ferromagnetic excitonic solid? *Physical Review Letters* **101**, 136410 (2008).

*Tiemann, L., W. Dietsche, M. Hauser and K. von Klitzing.* Critical tunneling currents in the regime of bilayer excitons. *New Journal of Physics* **10**, 045018 (2008).

*Tiemann, L., J.G.S. Lok, W. Dietsche, K. von Klitzing, K. Muraki, D. Schuh and W. Wegscheider.* Investigating the transport properties of the excitonic state in quasi-Corbino electron bilayers. *Physica E* **40**, 1034–1037 (2008).

*Tiemann, L., J.G.S. Lok, W. Dietsche, K. von Klitzing, K. Muraki, D. Schuh and W. Wegscheider.* Exciton condensate at a total filling factor of one in Corbino two-dimensional electron bilayers. *Physical Review B* **77**, 033306 (2008).

*Tikhodeev, S.G.* see Christ, A.

*Toschi, A. and M. Capone.* Optical sum rule anomalies in the cuprates: interplay between strong correlation and electronic bandstructure. *Physical Review B* **77**, 014518 (2008).

*Toschi, A.* see Baldassarre, L.; Held, K.

*Tragl, S., K. Gibson, J. Glasera, G. Heydenrych, G. Frenking, V. Duppel, A. Simon and H.J. Meyer.* Cystalline Intermediates during Polycondensation Reactions in the C-N-Cl System—The Paddle-Wheel Molecule N(C<sub>6</sub>N<sub>7</sub>C<sub>12</sub>)<sub>3</sub>. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 2754–2760 (2008).

*Ulbricht, G.* see Martin, J.; Sellner, S.

*Ulrich, C., G. Ghiringhelli, A. Piazzalunga, L. Braicovich, N.B. Brookes, H. Roth, T. Lorenz and B. Keimer.* Orbital excitations in YTiO<sub>3</sub> and LaTiO<sub>3</sub> probed by resonant inelastic soft x-ray scattering. *Physical Review B* **77**, 113102 (2008).

*Ulrich, C.* see Reehuis, M.

*Unterhinninghofen, J., D. Manske and A. Knorr.* Theory of ultrafast nonequilibrium dynamics in *d*-wave superconductors. *Physical Review B* **77**, 180509R (2008).

*Uthayakumar, S., R. Fittipaldi, A. Guarino, A. Vecchione, A. Romano, A. Nigro, H.-U. Habermeier and S. Pace.* Thermal treatments and evolution of bulk Nd<sub>1.85</sub>Ce<sub>0.15</sub>CuO<sub>4</sub> morphology. *Physica C* **468**, 2271–2274 (2008).

*Uthayakumar, S., G.H. Aydogdu and H.-U. Habermeier.* Thickness dependence of substrate-induced strain in La<sub>0.9</sub>Ca<sub>0.1</sub>MnO<sub>3</sub> thin films. *Journal of Crystal Growth* **310**, 2480–2484 (2008).

*Vajenine, G.V.* On reactions between alkali metals and active nitrogen. *Solid State Sciences* **10**, 450–454 (2008).

Vajenine, G. see Baumeier, B.; Smetana, V.

Vargas, P. see Laroze, D.

*van Veenendaal, M. and M.W. Haverkort.* Effective operator for *d-d* transitions in nonresonant inelastic x-ray scattering. *Physical Review B* **77**, 224107 (2008).

*Virojanadara, C., M. Hetzel, L.I. Johansson, W.J. Choyke and U. Starke.* Electronic and atomic structure of the 4H-SiC(1-102)-c(2×2) surface. *Surface Science* **602**, 525–533 (2008).

*Virojanadara, C., M. Hetzel, C. Riedl, L.I. Johansson, W.J. Choyke and U. Starke.* Silicon adatom chains and one-dimensionally confined electrons on 4H-SiC(1-102): The (2×1) reconstruction. *Surface Science* **602**, 3506–3509 (2008).

*Virojanadara, C., M. Hetzel and U. Starke.* A diagonal cut through the SiC bulk unit cell: Structure and composition of the 4H-SiC(1-102) surface. *Applied Physics Letters* **92**, 061902 (2008).

*Vitali, L., S. Fabris, A.M. Conte, S. Brink, M. Ruben, S. Baroni and K. Kern.* Electronic Structure of Surface-supported Bis(phthalocyaninato) terbium(III) Single Molecular Magnets. *Nano Letters* **8**, 3364–3368 (2008).

*Vitali, L., R. Ohmann, S. Stepanow, P. Gambardella, K. Tao, R. Huang, V.S. Stepanyuk, P. Bruno and K. Kern.* Kondo Effect in Single Atom Contacts: The Importance of the Atomic Geometry. *Physical Review Letters* **101**, 216802 (2008).

*Vitali, L., C. Riedl, R. Ohmann, I. Brihuega, U. Starke and K. Kern.* Spatial modulation of the Dirac gap in epitaxial graphene. *Surface Science* **602**, L127–L130 (2008).

Vitali, L. see Brihuega, I.

*Vogelgesang, R., J. Dorfmüller, R. Esteban, R.T. Weitz, A. Dmitriev and K. Kern.* Plasmonic nanostructures in aperture-less scanning near-field optical microscopy (aSNOM). *physica status solidi (b)* **245**, 2255–2260 (2008).

*Vogelgesang, R., R. Esteban and K. Kern.* Beyond lock-in analysis for volumetric imaging in apertureless scanning near-field optical microscopy. *Journal of Microscopy* **229**, 365–370 (2008).

Vogelgesang, R. see Esteban, R.; Zentgraf, T.

*Voinescu, A.E., M. Kellermeier, B. Bartel, A.M. Carnerup, A.K. Larsson, D. Touraud, W. Kunz, L. Kienle, A. Pfitzner and S.T. Hyde.* Inorganic self-organized silica aragonite biomorphic composites. *Crystal Growth & Design* **8**, 1515–1521 (2008).

*Voinescu, A.E., D. Touraud, A. Lecker, A. Pfitzner, L. Kienle and W. Kunz.* Initiation of Vaterite-Aragonite CaCO<sub>3</sub> Particles from Silicate-Casein Sols. *Journal of Physical Chemistry C* **112**, 17499–17506 (2008).

*Wahl, P., L. Diekhöner, M.A. Schneider and K. Kern.* Background removal in scanning tunneling spectroscopy of single atoms and molecules on metal surfaces. *Review of Scientific Instruments* **79**, 043104 (2008).

Wahl, P. see Negulyaev, N.N.

*Wang, L., R. Merkle, G. Cristiani, B. Stuhlhofe, H.-U. Habermeier and J. Maier.* PLD-deposited (Ba<sub>x</sub>Sr<sub>1-x</sub>)(Co<sub>y</sub>Fe<sub>1-y</sub>)O<sub>3-δ</sub> Thin-Film Microelectrodes: Structure Aspects and Oxygen Incorporation Kinetics. *ECS Transactions* **18**, 85–95 (2008).

*Wang, L., A. Rastelli, S. Kiravittaya, P. Atkinson, F. Ding, C.C.B. Bufon, C. Hermannstadter, M. Witzany, G.J. Beirne, P. Michler and O.G. Schmidt.* Towards deterministically controlled InGaAs/GaAs lateral quantum dot molecules. *New Journal of Physics* **10**, 045010 (2008).

Wang, X. see Chen, D.P.; Zhi, L.

Wang, Y. see Tait, S.L.

*Wang, Z.-H., H.-U. Habermeier, G. Cristiani, J.-R. Sun and B.-G. Shen.* Asymmetric Magnetization Reversal Probed by Recoil Loop Measurements in an Exchange Biased  $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3/\text{La}_{0.33}\text{Ca}_{0.67}\text{MnO}_3$  Bilayer Film. *Chinese Physics Letters* **25**, 278–281 (2008).

*Wang, Z.H., O.I. Lebedev, G. Van Tendeloo, G. Cristiani and H.-U. Habermeier.* Crosshatching on  $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$  ultrathin films epitaxially grown on  $\text{SrTiO}_3(100)$ . *Physical Review B* **77**, 115330 (2008).

*Wasniowska, M., W. Wulfhekel, M. Przybylski and J. Kirschner.* Submonolayer regime of Co epitaxy on Pd(111): Morphology and electronic structure. *Physical Review B* **78**, 035405 (2008).

*Wawrzynska, E., R. Coldea, E.M. Wheeler, T. Sörgel, M. Jansen, R.M. Ibberson, P.G. Radaelli and M.M. Koza.* Charge disproportionation and collinear magnetic order in the frustrated triangular antiferromagnet  $\text{AgNiO}_2$ . *Physical Review B* **77**, 094439 (2008).

*Weber, J., K.-D. Kreuer, J. Maier and A. Thomas.* Proton conductivity enhancement by nanostructural control of poly(benzimidazole)-phosphoric acid adducts. *Advanced Materials* **20**, 2595–2598 (2008).

*Weber, J., J. Weis, M. Hauser and K. von Klitzing.* Fabrication of an array of single-electron transistors for a scanning probe microscope sensor. *Nanotechnology* **19**, 375301 (2008).

Weber, J. see Cimalla, V.; Göktas, O.

*Weber, T., A. Simon, Hj. Mattausch, L. Kienle and O. Oeckler.* Reliability of Monte Carlo simulations of disordered structures optimized with evolutionary algorithms exemplified with diffuse scattering from  $\text{La}_{0.70(1)}(\text{Al}_{0.14(1)}\text{I}_{0.86(1)})$ . *Acta Crystallographica A* **64**, 641–653 (2008).

*Weinmann, M., M. Kroschel, T. Jäschke, J. Nuss, M. Jansen, G. Kolios, A. Morillo, C. Tellaeche and U. Nieken.* Towards continuous processes for the synthesis of precursors of amorphous Si/B/N/C ceramics. *Journal of Materials Chemistry* **18**, 1810–1818 (2008).

*Weinmann, M., J. Nuss and M. Jansen.* Dichloridobis(methylamine-N)boron(III) chloride. *Acta Crystallographica E* **64**, O583–U1050 (2008).

Weis, J. see Göktas, O.; Hübel, A.; Weber, J.

*Weitz, R.T., K. Amsharov, U. Zschieschang, E.B. Villas, D.K. Goswami, M. Burghard, H. Dosch, M. Jansen, K. Kern and H. Klauk.* Organic n-channel transistors based on core-cyanated perylene carboxylic diimide derivatives. *Journal of the American Chemical Society* **130**, 4637–4645 (2008).

*Weitz, R.T., L. Harnau, S. Rauschenbach, M. Burghard and K. Kern.* Polymer nanofibers via nozzle-free centrifugal spinning. *Nano Letters* **8**, 1187–1191 (2008).

Whangbo, M. see Köhler, J.; Lee, C.; Liu, X.

*White, J.S., S.P. Brown, E.M. Forgan, M. Laver, C.J. Bowell, R.J. Lycett, D. Charalambous, V. Hinkov, A. Erb and J. Kohlbrecher.* Observations of the configuration of the high-field vortex lattice in  $\text{YBa}_2\text{Cu}_3\text{O}_7$ : Dependence upon temperature and angle of applied field. *Physical Review B* **78**, 174513 (2008).

*Wohlfeld, K., M. Daghofer, A.M. Oleš and P. Horsch.* Spectral properties of orbital polarons in Mott insulators. *Physical Review B* **78**, 214423 (2008).

Wohlfeld, K. see Daghofer, M.

*Wontcheu, J., W. Bensch, S. Mankovsky, S. Polesya, H. Ebert, R.K. Kremer and E. Brücher.* Anion substitution effects on structure and magnetism of the chromium chalcogenide  $\text{Cr}_5\text{Te}_8$  Part III: Structures and magnetism of the high-temperature modification  $\text{Cr}_{1+x}\text{Q}_2$  and the low-temperature modification  $\text{Cr}_{5+x}\text{Q}_8$  ( $\text{Q} = \text{Te}, \text{Se}; \text{Te:Se} = 5:3$ ). *Journal of Solid State Chemistry* **181**, 1492–1505 (2008).

*Yamase, H.* Cuprate superconductors in the vicinity of a Pomeranchuk instability. *Journal of Physics and Chemistry of Solids* **69**, 3297–3300 (2008).

*Yamase, H. and A.A. Katanin.* Theory of spontaneous Fermi surface symmetry breaking for  $\text{Sr}_3\text{RU}_2\text{O}_7$ . *Physica B* **403**, 1262–1264 (2008).

*Yang, A., M. Steger, H.J. Lian, M.L.W. Thewalt, M. Uemura, A. Sagara, K.M. Itoh, E.E. Haller, J.W. Ager, S.A. Lyon, M. Konuma and M. Cardona.* High-resolution photoluminescence measurement of the isotopic-mass dependence of the lattice parameter of silicon. *Physical Review B* **77**, 113203 (2008).

*Yang, Y.A., A.M. Bittner, S. Baldelli and K. Kern.* Study of self-assembled triethoxysilane thin films made by casting neat reagents in ambient atmosphere. *Thin Solid Films* **516**, 3948–3956 (2008).

Yaresko, A. see Antonov, V.N.; Leoni, S.; Taraphder, A.

*Yel'kin, F.S., V.A. Sidorov, A. Waśkowska, L. Gerward, J.S. Olsen, G. Vaitheswaran and V. Kanchana.* Phase transitions in  $\text{Cd}_3\text{P}_2$  at high pressures and high temperatures. *Journal of Alloys and Compounds* **450**, 79–85 (2008).

Yordanov, P. see Yu, L.

*Yoshida, H., S. Ahlert, M. Jansen, Y. Okamoto, J. Yamaura and Z. Hiroi.* Unique phase transition on spin-2 triangular lattice of  $\text{Ag}_2\text{MnO}_2$ . *Journal of the Physical Society of Japan* **77**, 074719 (2008).

*Yu, H.Y., D.S. Lee, U. Dettlaff-Weglikowska, S. Roth and Y.W. Park.* Electrical evidence for the encapsulation of  $\text{C}_{60}$  inside a carbon nanotube: Random telegraph signal and hysteretic current-voltage characteristics. *Physical Review B* **78**, 155415 (2008).

*Yu, L., D. Munzar, A.V. Boris, P. Yordanov, J. Chaloupka, T. Wolf, C.T. Lin, B. Keimer and C. Bernhard.* Evidence for Two Separate Energy Gaps in Underdoped High-Temperature Cuprate Superconductors from Broadband Infrared Ellipsometry. *Physical Review Letters* **100**, 177004 (2008).

Yu, L. see Bernhard, C.

Zegkinoglou, I. see Bohnenbuck, B.; Strempfer, J.

*Zentgraf, T., J. Dorfmüller, C. Rockstuhl, C. Etrich, R. Vogelgesang, K. Kern, T. Pertsch, F. Lederer and H. Giessen.* Amplitude-and phase-resolved optical near fields of split-ring-resonator-based metamaterials. *Optics Letters* **33**, 848–850 (2008).

*Zhang, J., Y.-S. Hu, J.-P. Tessonniere, G. Weinberg, J. Maier, R. Schlögl and D.S. Su.* CNFs@CNTs: Superior carbon for electrochemical energy storage. *Advanced Materials* **20**, 1450–1455 (2008).

*Zhang, J., V. Sessi, C.H. Michaelis, I. Brihuega, J. Honolka, K. Kern, R. Skomski, X. Chen, G. Rojas and A. Enders.* Ordered layers of Co clusters on BN template layers. *Physical Review B* **78**, 165430 (2008).

Zhang, J. see Brihuega, I.; Skomski, R.

*Zhang, P.X. and H.-U. Habermeier.* Atomic Layer Thermopile Materials: Physics and Application. *Journal of Nanomaterials* **2008**, 329601 (2008).

*Zhang, P.X., C. Wang, S.L. Tan, H. Zhang and H.-U. Habermeier.* Improving the performance of thermoelectric devices by doping Ag in  $\text{LaPbMnO}_3$  thin films. *Journal of Crystal Growth* **310**, 2732–2737 (2008).

*Zheng, C., Hj. Mattausch, C. Hoch and A. Simon.*  $\text{La}_6\text{Br}_{10}\text{Fe}$ : A  $\text{La}_6\text{Fe}$  octahedron with a mixed  $\text{My}_6\text{X}_{12}/\text{M}_6\text{X}_8$  type environment. *Inorganic Chemistry* **47**, 2356–2361 (2008).

*Zheng, C., Hj. Mattausch, C. Hoch and A. Simon.*  $\text{La}_8\text{Br}_7\text{Ni}_4$ : Ribbons of Ni Hexagons in Condensed  $\text{La}_6$  Trigonal Prisms. *Inorganic Chemistry* **47**, 10753–10757 (2008).

Zheng, C. see Lukachuk, M.; Mattausch, Hj.

*Zhi, L., Y.-S. Hu, B. El Hamaoui, X. Wang, I. Lieberwirth, U. Kolb, J. Maier and K. Müllen.* Precursor-Controlled Formation of Novel Carbon/Metal and Carbon/Metal Oxide Nanocomposites. *Advanced Materials* **20**, 1727–1731 (2008).

*Zhu, M., C.J. Weber, Y. Yang, M. Konuma, U. Starke, K. Kern and A.M. Bittner.* Chemical and electrochemical ageing of carbon materials used in supercapacitor electrodes. *Carbon* **46**, 1829–1840 (2008).

*Zhukovskii, Y.F., E.A. Kotomin, P. Balaya and M. Maier.* Enhanced interfacial lithium storage in nanocomposites of transition metals with LiF and Li<sub>2</sub>O: Comparison of DFT calculations and experimental studies. *Solid State Sciences* **10**, 491–495 (2008).

*Zhukovskii, Y.F., E.A. Kotomin and D.E. Ellis.* A comparative *ab initio* study of Cu overlayers on BaTiO<sub>3</sub>(001) and MgO(001) substrates. *physica status solidi (b)* **245**, 980–985 (2008).

*Zhuravlev, A.S., A.B. Van'kov, L.V. Kulik, I.V. Kukushkin, V.E. Kirpichev, J.H. Smet, K. von Klitzing, V. Umansky and W. Wegscheider.* Inelastic light scattering study of the  $\nu = 1$  quantum Hall ferromagnet. *Physical Review B* **77**, 155404 (2008).

*Zschieschang, U., M. Halik and H. Klauk.* Microcontact-printed self-assembled monolayers as ultrathin gate dielectrics in organic thin-film transistors and complementary circuits. *Langmuir* **24**, 1665–1669 (2008).

Zschieschang, U. see Deneke, C.; Sekitani, T.; Weitz, R.T.

*Zürn, A. and H.G. von Schnering.* Topological Analysis of Mesoporous Solids and Their Ordered Pore Structures by Periodic Nodal Surfaces, PNS. *Zeitschrift für anorganische und allgemeine Chemie* **634**, 2761–2764 (2008).

*Zurek, E., J. Autschbach, N. Malinowski, A. Enders and K. Kern.* Experimental and Theoretical Investigations of the Thermodynamic Stability of Ba-C<sub>60</sub> and K-C<sub>60</sub> Compound Clusters. *ACS Nano* **2**, 1000–1014 (2008).

*Zurek, E., C.J. Pickard and J. Autschbach.* Density-Functional Study of the <sup>13</sup>C NMR Chemical Shifts in Single-Walled Carbon Nanotubes with Stone-Wales Defects. *Journal of Physical Chemistry C* **112**, 11744–11750 (2008).

*Zurek, E., C.J. Pickard and J. Autschbach.* Determining the diameter of functionalized single-walled carbon nanotubes with <sup>13</sup>C NMR: A theoretical study. *Journal of Physical Chemistry C* **112**, 9267–9271 (2008).