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- Burns R C, Chumakov A I, Connell S H, Dube D, Godfried H P, Hansen J O, Härtwig J, Hoszowska J, Masiello F, Mkhonza L, Rebak M, Rommevaux A, Setshedi R and Van Vaerenbergh P: HPHT growth and x-ray characterization of high-quality type IIa diamond 364224
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- Buscemi F, Bordone P and Bertoni A: Validity of the single-particle approach for electron transport in quantum wires assisted by surface acoustic waves 305303
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- Bussmann E, Sun J, Pohl K and Kellogg G L: Palladium diffusion into bulk copper via the (100) surface 314016
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- Car R: see Giannozzi P 395502
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- Caravati S, Bernasconi M, Kühne T D, Krack M and Parrinello M: First-principles study of crystalline and amorphous Ge<sub>2</sub>Sb<sub>2</sub>Te<sub>5</sub> and the effects of stoichiometric defects 255501
- Caravati S, Bernasconi M, Kühne T D, Krack M and Parrinello M: First principles study of crystalline and amorphous Ge<sub>2</sub>Sb<sub>2</sub>Te<sub>5</sub> and the effects of stoichiometric defects (Corrigendum) 499803
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- Casini E, Kempf M, Krämer J and Braun H F: Effect of chemical composition on superconductivity and magnetism in layered ruthenocuprates 254210
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- Chang G S, Kurmaev E Z, Boukhvalov D W, Finkelstein L D, Moewes A, Bieber H, Colis S and Dinia A: Co and Al co-doping for ferromagnetism in ZnO:Co diluted magnetic semiconductors 056002
- Chang L J, Huang D J, Li W-H, Cheong S-W, Ratcliff W and Lynn J W: Crossover from incommensurate to commensurate magnetic orderings in CoCr<sub>2</sub>O<sub>4</sub> 456008
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- Chatterji T and Schneider G J: Anomalous hyperfine interaction in CoF<sub>2</sub> investigated by high resolution neutron spectroscopy 436008
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- Chen C, He L, Lai L, Zhang H, Lu J, Guo L and Li Y: Magnetic properties of undoped Cu<sub>2</sub>O fine powders with magnetic impurities and/or cation vacancies 145601
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- Chen H, Wu T, Xie Y L, Liu R H, Wu G, Wang X F and Chen X H: Magnetotransport properties in K<sub>0.50</sub>CoO<sub>2</sub> single crystals 016004
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- Chen X M, Fei G T and Zheng K: The solid state phase transition of gallium particles and its size dependence 245403
- Chen X-R: *see* Li X-F 025505
- Chen X-R: see Liu Z-L 095408
- Chen Y, Croitoru M D, Shanenko A A and Peeters F M: Superconducting nanowires: quantum confinement and spatially dependent Hartree–Fock potential 435701
- Chen Y, Xie W-F, Guo K-X, Liang H-D and Xiang Y: Green's function method applied to the paramagnetic properties of  $R_{1-x}X_xMnO_3$  146004
- Chen Y: see Ye F 355701
- Chen Y H: see Tang C G 375802
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  - Chen Y Z, Sun J R, Zhao J L, Wang J, Shen B G and Pryds N: Large anisotropy in colossal magnetoresistance of charge orbital ordered epitaxial Sm<sub>0.5</sub>Ca<sub>0.5</sub>MnO<sub>3</sub> films 442001
  - Chen Z Z: see Zhou K J 495502
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- Ching W-Y and Rulis P: X-ray absorption near edge structure/electron energy loss near edge structure calculation using the supercell orthogonalized linear combination of atomic orbitals method 104202
- Chini T K, Datta D P and Bhattacharyya S R: Ripple formation on silicon by medium energy ion bombardment 224004
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- Chiodo L, Sala F D, Pellegrino T, Cingolani R and Manna L: An *ab initio* study of the magnetic–metallic CoPt<sub>3</sub>–Au interfaces 015001
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- $\label{eq:chockalingam S P, Sarangi S, Bhat S V, Oka K and Nishihara Y: A new behaviour of ac losses in superconducting Bi_2Sr_2CaCu_2O_8 single crystals 045704$
- Chockalingam S P: see Bose S 205702
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- Choudhury P K, Bagchi D and Menon R: π-conjugation and conformation in a semiconducting polymer: small angle x-ray scattering study 195801
- Choudhury R R and Chitra R: Structural origin for the change of the order of ferroelectric phase transition in triglycine sulfate/selenate systems 335901
- Chowdhury J, Karmakar S N and Bhattacharyya B: Effect of external electric field on the charge density waves in one-dimensional Hubbard superlattices 015302
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- Corso M, Schiller F, Fernández L, Cordón J and Ortega J E: Electronic states in faceted Au(111) studied with curved crystal surfaces 353001
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- Curiale J: *see* Aurelio G 326002
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- da Silva J H, Lima J A Jr, Freire P T C, Lemos V, Mendes Filho J, Melo F E A, Pizani P S, Fischer J, Klemke B, Kemner E and Bordallo H N: Raman spectroscopy and inelastic neutron scattering study of crystalline L-valine 415404
- da Silva J L F: see Martinho H 456007

- da Silva L F, Fulco U L and Nobre F D: The two-dimensional site-diluted Ising model: a short-time-dynamics approach 346005
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- Fil D V and Shevchenko S I: Josephson vortex motion as a source for dissipation of superflow of e-h pairs in bilayers 215701
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- Yoshimura T and Fujimura N: Spin–phonon coupling in multiferroic YbMnO<sub>3</sub> studied by Raman scattering 064218
- Fukumura H, Tonari N, Hasuike N, Harima H, Kisoda K, Koide T, Seki M and Tabata H: Raman scattering study of multiferroic Ho<sub>3</sub>Fe<sub>5</sub>O<sub>12</sub> thin films 064221
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- Gamża M, Schnelle W, Gumeniuk R, Prots Yu, Ślebarski A, Rosner H and Grin Yu: Electronic structure and thermodynamic properties of CeRh<sub>2</sub>Sn<sub>4</sub> and LaRh<sub>2</sub>Sn<sub>4</sub> 325601
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- Gao J and Wang J: The metal-insulator transition in the half-filled extended Hubbard model on a triangular lattice 485702
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- Garstecki P, Tierno P, Weibel D B, Sagués F and Whitesides G M: Propulsion of flexible polymer structures in a rotating magnetic field 204110
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- Gevers S, Weisemoeller T, Zimmermann B, Bertram F, Deiter C and Wollschläger J: Structural phase transition of ultra thin PrO<sub>2</sub> films on Si(111) 175408
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- Krok-Kowalski J, Warczewski J, Gusin P, Śliwińska T, Groń T, Urban G, Rduch P, Władarz G, Duda H, Malicka E, Pacyna A

and Koroleva L I: Percolation limit and stability conditions for the spin glass state in the spinel families based on the two matrices  $CuCr_2S_4$  and  $CuCr_2Se_4$  doped by Sb ions 035402

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- Krzystyniak M, Lalowicz Z T, Chatzidimitriou-Dreismann C A and Lerch M: Proton momentum distribution and anomalous scattering intensities in a pseudo-spherical ammonium ion: a neutron Compton scattering study of (NH<sub>4</sub>)<sub>2</sub>PdCl<sub>6</sub> and (NH<sub>4</sub>)<sub>2</sub>TeCl<sub>6</sub> 075502
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- Kumar D, Rajeev K P, Alonso J A and Martínez-Lope M J: Evidence of kinetically arrested supercooled phases in the perovskite oxide NdNiO<sub>3</sub> 485402
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- Kumar M, Nautiyal T and Auluck S: First-principles calculations of electronic and optical properties of  $Fe_{3-x}V_xAl (x = 0-3)$  compounds 446001
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- Kurmaev E Z, McLeod J A, Skorikov N A, Finkelstein L D, Moewes A, Korotin M A, Izyumov Yu A, Xie Y L, Wu G and Chen X H: Structural models of  $FeSe_x$  435702
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- Lancaster T, Pratt F L, Blundell S J, McKenzie I and Assender H E: Muon-fluorine entanglement in fluoropolymers 346004
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- Laskowski R, Gallauner T, Blaha P and Schwarz K: Density functional theory simulations of B K and N K NEXAFS spectra of h-BN/transition metal(111) interfaces 104210
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- Levi A C: Return to coherence via Debye–Waller factor quenching 405004
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- Li D: see Prieler R 464110
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- Li H-N, Yang H, Wang X-X, Ni J-F, Wang P, Meng L, Wang X-B, Kurash I, Qian H-J, Wang J-O and Liu Z-Y: Electronic structure of C<sub>84</sub> film studied by photoemission measurement and first-principles calculation 265502
- Li J, Chu H F, Zhang Y, Wang J, Zheng D N, Song Q, Wang P, Ma Y G, Ong C K and Wang S J: The role of magnetoelastic strain on orbital control and transport properties in an LaTiO<sub>3</sub>-CoFe<sub>2</sub>O<sub>4</sub> heterostructure 276002
- Li J, Luo X, Hu P and Dong S: Comment on 'Modelling of surface energies of elemental crystals' 198001
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- Li P, Su H, Dong H-N and Shen S-Q: Incommensurate phase of a triangular frustrated Heisenberg model studied via Schwinger-boson mean-field theory 326005
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- Li Q M: see Shi M X 455301
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- Li R-W, Belik A A, Wang Z-H and Shen B-G: Magnetism, transport, and specific heat of electronically phase-separated Pr<sub>0.7</sub>Pb<sub>0.3</sub>MnO<sub>3</sub> single crystals 076002
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- Li X, Wang F, Lin Y, Liu L, Zhao X, Luo H and Lin D: Electric-field-induced phase transitions of

- (1 x)PbMg<sub>1/3</sub>Nb<sub>2/3</sub>O<sub>3</sub>-*x*PbTiO<sub>3</sub> crystals studied by optical methods 335902
- Li X-F, Ji G-F, Zhao F, Chen X-R and Alfè D: First-principles calculations of elastic and electronic properties of NbB<sub>2</sub> under pressure 025505
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- Li Y-F, Zhu L-F, Guo S-D, Xu Y-C and Liu B-G: Distorted magnetic orders and electronic structures of tetragonal FeSe from first principles 115701
- Li Y K, Lin X, Zhou T, Shen J Q, Tao Q, Cao G H and Xu Z A: Superconductivity induced by Ni doping in  $SmFe_{1-x}Ni_xAsO$ 355702
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- Lin J, Weber N, Wirth A, Chew S H, Escher M, Merkel M, Kling M F, Stockman M I, Krausz F and Kleineberg U: Time of flight-photoemission electron microscope for ultrahigh spatiotemporal probing of nanoplasmonic optical fields 314005
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- Liu D, Lu H M and Jiang Q: Reply to comment on 'Modelling of surface energies of elemental crystals' 198002
- $\begin{array}{l} \mbox{Liu D-Y, Lu F and Zou L-J: Anharmonic effect on lattice distortion,} \\ \mbox{orbital ordering and magnetic properties in $Cs_2AgF_4$} & 026014 \end{array}$
- Liu F: see Tøstesen E 034109
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- Liu G-B and Liu B-G: Temperature-dependent striped antiferromagnetism of LaFeAsO in a Green's function approach 195701
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- Liu L-H, Zhang Y, Hu X-L and Lu G-H: Formation of a coplanar O–Al bonding cluster: the effect of O impurity on a  $\Sigma = 5$  NiAl grain boundary from first-principles 015002
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- Liu R, Wang S and Wu X: The Peierls stress of the moving  $\frac{1}{2}\langle 111\rangle \{110\}$  screw dislocation in Ta 345401
- Liu R B, Cao J H, Li Z A, Wang Q, Zhang Q L, He P B, Zou B S and Pan A L: Broadband coherent emission observed in polycrystalline CdSSe nanowires under high excitation 375302
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- Liu X-Y, Uberuaga B P and Sickafus K E: First-principles study of fission product (Xe, Cs, Sr) incorporation and segregation in alkaline earth metal oxides, HfO<sub>2</sub>, and the MgO–HfO<sub>2</sub> interface 045403
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- Locatelli A and Kiskinova M: Proceedings of the 6th International Workshop on LEEM/PEEM (Trieste, 7–11 September 2008) 310301
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- Longeaud C, Kleider J P, Kaminski P, Kozlowski R and Miczuga M: Characterization of defect levels in semi-insulating 6H-SiC by means of photoinduced transient spectroscopy and modulated photocurrent technique 045801
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- Los A and Los V: Magnetic states of transition metal impurities in silicon carbide 206004
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- Losovyj Ya B, Wooten D, Santana J C, An J M, Belashchenko K D, Lozova N, Petrosky J, Sokolov A, Tang J, Wang W, Arulsamy N and Dowben P A: Comparison of n-type Gd<sub>2</sub>O<sub>3</sub> and Gd-doped HfO<sub>2</sub> 045602
- Losovyj Ya B: see Wu N 295501
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  - Luo N and Miley G H: An alternative theory on relaxation rates in cuprate superconductors 025701
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  - Luo X, Sun Y P, Hu L, Wang B S, Lu W J, Zhu X B, Yang Z R and Song W H: Observation of the large magnetocaloric effect in an orbital-spin-coupled system MnV<sub>2</sub>O<sub>4</sub> 436010
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  - Lyver J W IV and Blaisten-Barojas E: Effects of the interface between two Lennard-Jones crystals on the lattice vibrations: a molecular dynamics study 345402
  - Ma C, Yan J-Q, Dennis K W, Llobet A, McCallum R W and Tan X: Effect of oxygen content on the magnetic properties of multiferroic  $YMn_2O_{5+\delta}$  346002
  - Ma C, Yang H X, Zeng L J, Li Z A, Zhang Y, Qin Y B and Li J Q: Effects of layered structural features on charge/orbital ordering in  $(La,Sr)_{n+1}Mn_nO_{3n+1}$  (*n* = 1 and 2) 045601
  - Ma C, Yang H X, Zeng L J, Zhang Y, Wang L L, Chen L, Xiong R, Shi J and Li J Q: Structural modulation and hole distribution in  $Sr_{14-x}Ca_{x}Cu_{24}O_{41}$  215606
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  - Machon D, Grzechnik A and Friese K: Pressure-induced disorder in Rb<sub>2</sub>ZnCl<sub>4</sub> 405405
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- Madden P A: see Marrocchelli D 405403
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- Maebashi H and Takada Y: Towards first-principles understanding of the metal-insulator transition in fluid alkali metals 064205
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- Mahlik S, Grinberg M, Cavalli E, Bettinelli M and Boutinaud P: High pressure evolution of YVO<sub>4</sub>:Pr<sup>3+</sup> luminescence 105401
- Mahlik S, Grinberg M, Shi L and Seo H J: Pressure evolution of LiBaF<sub>3</sub>:Eu<sup>2+</sup> luminescence 235603
- Mahlik S, Wiśniewski K, Grinberg M and Meltzer R S: Temperature and pressure dependence of the luminescence of  $Eu^{2+}$ -doped fluoride crystals  $Ba_x Sr_{1-x} F_2$  (x = 0, 0.3, 0.5 and 1): experiment and model 245601
- Mahmoodi T and Payami M: Equilibrium properties of simple metal thin films in the self-compressed stabilized jellium model 265002
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- Maisuradze A, Khasanov R, Shengelaya A and Keller H: Comparison of different methods for analyzing  $\mu$ SR line shapes in the vortex state of type-II superconductors 075701
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- Malyshev A V, Díaz E, Domínguez-Adame F and Malyshev V A: Effects of the environment on the electric conductivity of double-stranded DNA molecules 335105
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- Manchado J, Romero F J, Gallardo M C, del Cerro J, Darling T W, Taylor P A, Buckley A and Carpenter M A: Dielectric, calorimetric and elastic anomalies associated with the first order *14/mcm* ↔ *Pbcm* phase transition in (Ca,Sr)TiO<sub>3</sub> perovskites 295903
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- Manghi M, Palmeri J and Destainville N: Coupling between denaturation and chain conformations in DNA: stretching, bending, torsion and finite size effects 034104
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- Manna S, Majumder S and De S K: Tuning of the spin gap transition of spin dimer compound  $Ba_3Mn_2O_8$  by doping with La and V 236005
- Mannix D: see Daumont C J M 182001
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- Mansouri S, Charpentier S, Jandl S, Fournier P, Mukhin A A, Ivanov V Yu and Balbashov A: A micro-Raman study of a Pr<sub>0.5</sub>Ca<sub>0.5</sub>MnO<sub>3</sub> single crystal and thin films 386004

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- McKnight R E A, Kennedy B J, Zhou Q and Carpenter M A: Elastic anomalies associated with transformation sequences in perovskites: II. The strontium zirconate–titanate Sr(Zr,Ti)O<sub>3</sub> solid solution series 015902
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- Miguel J, Abrudan R, Bernien M, Piantek M, Tieg C, Kirschner J and Kuch W: Magnetic domain coupling study in single-crystalline Fe/CoO bilayers 185004
- Miguel J, Sánchez-Barriga J, Bayer D, Kurde J, Heitkamp B, Piantek M, Kronast F, Aeschlimann M, Dürr H A and Kuch W: Time-resolved magnetization dynamics of cross-tie domain walls in permalloy microstructures 496001
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- Milman V, Perlov A, Refson K, Clark S J, Gavartin J and Winkler B: Structural, electronic and vibrational properties of tetragonal zirconia under pressure: a density functional theory study 485404
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- Ming W, Liu Y, Zhang W, Zhao J and Yao Y: First-principles study of the electronic, vibrational, electron–phonon interaction and thermodynamics properties of ZrNi<sub>2</sub>Ga 075501
- Ming X, Meng X, Hu F, Wang C-Z, Huang Z-F, Fan H-G and Chen G: Pressure-induced magnetic moment collapse and insulator-to-semimetal transition in BiCoO<sub>3</sub> 295902
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- Mishra S N: Magnetic interactions in equi-atomic rare-earth intermetallic alloys RScGe (R = Ce, Pr, Nd and Gd) studied by time differential perturbed angular correlation spectroscopy and *ab initio* calculations 115601
- Mitsubori S, Katayama I, Lee S H, Yao T and Takeda J: Ultrafast lasing due to electron-hole plasma in ZnO nano-multipods 064211
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- Mizuno S and Nishiguchi N: Acoustic phonon modes and dispersion relations of nanowire superlattices 195303
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- Mizusaki S, Taniguchi T, Okada N, Nagata Y, Hiraoka N, Itou M, Sakurai Y, Noro Y, Ozawa T C and Samata H: Magnetic ground states of  $CaRu_{1-x}Mn_xO_3(0.2 \le x \le 0.9)$ : a magnetic Compton scattering study 276003
- Mizusaki S, Toyoda Y, Ohnishi T, Nagata Y, Itou M, Sakurai Y, Noro Y and Ozawa T C: Orbital magnetic moment in Ir doped CaMnO<sub>3</sub> 336001
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- Mole R A, Stride J A, Unruh T and Wood P T: Non-classical behaviour in an S = 5/2 chain with next nearest neighbour interactions observed from the inelastic neutron scattering of Mn<sub>2</sub>(OD)<sub>2</sub>(C<sub>4</sub>O<sub>4</sub>) 076003
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- Moreira J A, Almeida A, Ferreira W S, Chaves M R, Kundys B, Ranjith R, Prellier W, Vilela S M F and Tavares P B: Polar properties of  $Eu_{0.6}Y_{0.4}MnO_3$  ceramics and their magnetic field dependence 446002
- Moreno J, Kasai K, David M, Nakanishi H and Kasai H: Hydrogen peroxide adsorption on Fe-filled single-walled carbon nanotubes: a theoretical study 064219
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- Morito H, Oikawa K, Fujita A, Fukamichi K, Kainuma R and Ishida K: Stress-assisted large magnetic-field-induced strain in single-variant Co–Ni–Ga ferromagnetic shape memory alloy 256002
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- Moze O, Kockelmann W A, Hofmann M, Cadogan J M, Ryan D H and Buschow K H J: Structural transitions in RNi<sub>10</sub>Si<sub>2</sub> intermetallics 124210
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- Mucha-Kruczyński M, Abergel D S L, McCann E and Fal'ko V I: On spectral properties of bilayer graphene: the effect of an SiC substrate and infrared magneto-spectroscopy 344206
- Muduli P K, Rice W C, He L, Collins B A, Chu Y S and Tsui F: Study of magnetic anisotropy and magnetization reversal using the quadratic magnetooptical effect in epitaxial  $Co_x Mn_y Ge_z(111)$  films 296005
- Mufti N, Blake G R, Nugroho A A and Palstra T T M: Magnetic field induced ferroelectric to relaxor crossover in  $Tb_{1-x}Ca_xMnO_3$  452203
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Passerat de Silans T, Maurin I, Chaves de Souza Segundo P, Saltiel S, Gorza M-P, Ducloy M, Bloch D, de Sousa Meneses D and Echegut P: Temperature dependence of the dielectric permittivity of CaF<sub>2</sub>, BaF<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub>: application to the prediction of a temperature-dependent van der Waals surface interaction exerted onto a neighbouring Cs(8P<sub>3/2</sub>) atom 255902

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Pasturel M, Tougait O, Potel M, Roisnel T, Wochowski K, Noël H and Troć R: Crystal structure and physical properties of a novel Kondo antiferromagnet: U<sub>3</sub>Ru<sub>4</sub>Al<sub>12</sub> 125401

Pasuk I: see Baibarac M 445801

Patanè A, Allison G, Eaves L, Hopkinson M, Hill G and Ignatov A: Tailoring the electrical conductivity of GaAs by nitrogen incorporation 174209

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Patra M, Majumdar S and Giri S: Exchange bias effect and intragranular magnetoresistance in Nd<sub>0.84</sub>Sr<sub>0.16</sub>CoO<sub>3</sub> 486003

Patra M, Thakur M, De K, Majumdar S and Giri S: Reply to comment on 'Particle size dependent exchange bias and cluster-glass states in LaMn<sub>0.7</sub>Fe<sub>0.3</sub>O<sub>3</sub> ' 078002

Patra M, Thakur M, Majumdar S and Giri S: The exchange bias effect in phase separated  $Nd_{1-x}Sr_xCoO_3$  at the spontaneous ferromagnetic/ferrimagnetic interface 236004

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Paul S, Santiso E E and Nardelli M B: Sequestration and selective oxidation of carbon monoxide on graphene edges 355008

Paul-Boncour V, Filipek S M, Wierzbicki R, André G, Bourée F and Guillot M: Structural and magnetic properties of DyMn<sub>2</sub>D<sub>6</sub> synthesized under high deuterium pressure 016001

Paulatto L: see Giannozzi P 395502

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- Perna P, Méchin L, Chauvat M P, Ruterana P, Simon Ch and Scotti di Uccio U: High Curie temperature for La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> thin films deposited on CeO2 /YSZ-based buffered silicon substrates 306005
- Perroni C A: see Iorio A 456002
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- Perucchi A, Baldassarre L, Postorino P and Lupi S: Optical properties across the insulator to metal transitions in vanadium oxide compounds 323202
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- Peyker L, Gold C, Scheidt E-W, Scherer W, Donath J G, Gegenwart P, Mayr F, Unruh T, Eyert V, Bauer E and Michor H: Evolution of quantum criticality in  $\text{CeNi}_{9-x}\text{Cu}_x\text{Ge}_4$  235604
- Peyrard M, Cuesta-López S and Angelov D: Experimental and theoretical studies of sequence effects on the fluctuation and melting of short DNA molecules 034103
- Pfleiderer C, Neubauer A, Mühlbauer S, Jonietz F, Janoschek M, Legl S, Ritz R, Münzer W, Franz C, Niklowitz P G, Keller T, Georgii R, Böni P, Binz B, Rosch A, Rößler U K and Bogdanov A N: Quantum order in the chiral magnet MnSi 164215
- Pfleiderer C, Neubauer A, Mühlbauer S, Jonietz F, Janoschek M, Legl S, Ritz R, Münzer W, Franz C, Niklowitz P G, Keller T, Georgii R, Böni P, Binz B, Rosch A, Rößler U K and Bogdanov A N: Quantum order in the chiral magnet MnSi (Corrigendum) 279801
- Pfuner F, Degiorgi L, Berger H and Forró L: Infrared investigation of the phonon spectrum in the frustrated spin cluster compound FeTe<sub>2</sub>O<sub>5</sub>Cl 375401
- Philip J and Manjusha M V: Thermal transport across incommensurate phases in potassium selenate: photo-pyroelectric and calorimetric measurements 045901
- Philipp M, Vergnat C, Müller U, Sanctuary R, Baller J, Possart W, Alnot P and Krüger J K: Second order elasticity at hypersonic frequencies of reactive polyurethanes as seen by generalized Cauchy relations 035106
- Philipp M: see Sanctuary R 035118

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- Plessis P de V du: see Ragel F C 046008
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- Pounds M, Tazi S, Salanne M and Madden P A: Ion adsorption at a metallic electrode: an *ab initio* based simulation study 424109
- Pouthier V: Narrow band exciton coupled with acoustical anharmonic phonons: application to the vibrational energy flow in a lattice of H-bonded peptide units 185404
- Powell B J: see Yusuf E 195601
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- Prakash J, Singh S J, Patnaik S and Ganguli A K: Upper critical field, superconducting energy gaps and the Seebeck coefficient in La<sub>0.8</sub>Th<sub>0.2</sub>FeAsO 175705
- Pralong V: see Kundu A K 056007
- Pralong V: see Vijayanandhini K 486002
- Praprotnik M, Matysiak S, Delle Site L, Kremer K and Clementi C: Adaptive resolution simulation of liquid water (Corrigendum) 499801
- Prasad A, Hossain Z, Jeevan H S and Geibel C: YbNiB4: a Kondo lattice with low-dimensional antiferromagnetic fluctuations 206003

- Prasad A: see Roy P D 075106
- Pratt F L: see Lancaster T 346004
- Praveena R, Venkatramu V, Babu P, Jayasankar C K, Tröster T, Sievers W and Wortmann G: Luminescence properties of Sm<sup>3+</sup>-doped P<sub>2</sub>O<sub>5</sub>–PbO–Nb<sub>2</sub>O<sub>5</sub> glass under high pressure 035108
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- Prieler R, Hubert J, Li D, Verleye B, Haberkern R and Emmerich H: An anisotropic phase-field crystal model for heterogeneous nucleation of ellipsoidal colloids 464110
- Prince K C, Feyer V, Tadich A, Thomsen L and Cowie B C C: Photoabsorption and photoemission of magnesium diboride at the Mg K edge 405701
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- Prokeš K: The effect of uniaxial pressure on the antiferromagnetic structure of UNiAl studied using single-crystal neutron diffraction 236009
- Prokeš K, Lander G H and Bernhoeft N: Anomalous shift of magnetic diffuse scattering studied by neutron diffraction 285402
- Prokeš K and Mydosh J A: Field-induced ferromagnetic structure in  $Er_2Ni_2Pb$  216005
- Proshkin A V: see Baranov N V 506002
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- Pussi K, Gierer M and Diehl R D: The uniaxially aperiodic structure of a thin Cu film on fivefold *i*-Al–Pd–Mn 474213
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- TlGaTe<sub>2</sub> single crystals 235802
- Qian H-J: *see* Li H-N 265502

- Qian T, Wu C, Lei S L, Wang X-P and Sheng P: Modeling and simulations for molecular scale hydrodynamics of the moving contact line in immiscible two-phase flows 464119
- Qian Z: see Zhang R 335301
- Qin C S: see Shao J L 245703
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- Qin J, Liu H, Gu T and Bian X: The complex structure of liquid  $Cu_6Sn_5$  alloy 155106
- Qin M P: see Yang L P 145407
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- Qin W, Lu W-C, Zhao L-Z, Zang Q-J, Wang C Z and Ho K M: Stabilities and fragmentation energies of Si<sub>n</sub> clusters (n = 2-33) 455501
- Qin Y B, Yang H X, Zhang Y, Tian H F, Ma C, Zhao Y G, Walton R I and Li J Q: The effect of Mg doping on the structural and physical properties of LuFe<sub>2</sub>O<sub>4</sub> and Lu<sub>2</sub>Fe<sub>3</sub>O<sub>7</sub> 015401 Oin X B: and Ma C, 045601
- Qin Y B: see Ma C 045601
- Qin Z-H, Lewandowski M, Sun Y-N, Shaikhutdinov S and Freund H-J: Morphology and CO adsorption on platinum supported on thin Fe $_3O_4(111)$  films 134019
- Qiu G: see Wang M 046004
- Qiu S L and Marcus P M: Phases of Ca from first principles 435403
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- $\begin{array}{l} \mbox{Quirion G, Wu W, Aktas O, Rideout J, Clouter M J and Mróz B: \\ \mbox{Landau model for the elastic properties of the ferroelastic } \\ \mbox{crystal Rb}_4 Li H_3 (SO_4)_4 \quad \mbox{455901} \end{array}$
- Quirion G: see Aktas O 285901
- Quirós C, Peverini L, Zárate L, Alija A, Díaz J, Vélez M, Rodríguez-Rodríguez G, Fauth F, Ziegler E and Alameda J M: Enhancement of antiferromagnetic coupling in magnetic multilayers by low energy ion beam substrate nanopatterning 224024
- Quirós C: see Martínez-Blanco J 134011
- Quispe-Siccha R, Mejía-Uriarte E V, Villagrán-Muniz M, Jaque D, García Solé J, Jaque F, Sato-Berrú R Y, Camarillo E, Hernández A J and Murrieta S H: The effect of Nd and Mg doping on the micro-Raman spectra of LiNbO<sub>3</sub> single-crystals 145401
- Quitevis E L: see Russina O 424121
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- Race C P, Mason D R and Sutton A P: Electronic excitations and their effect on the interionic forces in simulations of radiation damage in metals 115702
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- Radváková A, Ziolkovskiy D V, Kajňaková M, Laskowska B, Barszcz B, Graja A, Starodub V A and Feher A: (N-Me-2,6-di-Me-Pz) (TCNQ)<sub>2</sub>—genuine organic anion-radical salt: a spin-ladder? 175405
- Radzyński T, Łusakowski A, Świątek K and Story T: The influence of microscopic disorder on electron paramagnetic resonance spectra of  $Eu^{2+}$  ions in  $Pb_{1-x}Ge_xTe = 405802$
- Ragel F C, Plessis P de V du and Strydom A M: Dilution and non-Fermi-liquid effects in the CePtIn Kondo lattice 046008

- Raghavendra Reddy V, Gupta A, Gome A, Leitenberger W and Pietsch U: In situ x-ray reflectivity and grazing incidence x-ray diffraction study of  $L 1_0$  ordering in <sup>57</sup>Fe/Pt multilayers 186002 Rahman T S: Computational methodologies for designing
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- Rajeevan N E, Kumar R, Shukla D K, Thakur P, Brookes N B, Chae K H, Choi W K, Gautam S, Arora S K, Shvets I V and Pradvumnan P P: Bi-substitution-induced magnetic moment distribution in spinel  $Bi_x Co_{2-x} MnO_4$  multiferroic 406006
- Rajput P, Gupta A and Sathe V: Study of swift heavy-ion-induced modification in Ti/Si using x-ray standing waves 095006
- Raju S G and Balasubramanian S: Intermolecular correlations in an ionic liquid under shear 035105
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- Ram J: see Singh R C 115101
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- Ranjan R, Garg R, Senyshyn A, Hegde M S, Ehrenberg H and Boysen H: Magneto-structural study of a Cr-doped CaRuO<sub>3</sub> 326001
- Ranjan R: see Singh S P 375902
- Ranjith R: see Moreira J A 446002
- Rao C N R: see Vijayanandhini K 486002
- Rao M N, Kaur N, Chaplot S L, Gaur N K and Singh R K: Lattice dynamics of orthorhombic perovskite yttrium manganite, YMnO<sub>3</sub> 355402
- Rao M S R: see Kharel P 036001
- Rao S S and Bhat S V: Realizing the 'hindered charge ordered phase' in nanoscale charge ordered manganites: magnetization, magneto-transport and EPR investigations 196005
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- Rule K C, Ehlers G, Gardner J S, Qiu Y, Moskvin E, Kiefer K and Gerischer S: Neutron scattering investigations of the partially ordered pyrochlore  $Tb_2Sn_2O_7$  486005
- Rule K C, Wildes A R, Bewley R I, Visser D and Hicks T J: High energy excitations measured by neutron spectroscopy in FePS<sub>3</sub> 124214
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- Saida J, Itoh K, Sato S, Imafuku M, Sanada T and Inoue A: Evaluation of the local environment for nanoscale quasicrystal formation in Zr<sub>80</sub>Pt<sub>20</sub> glassy alloy using Voronoi analysis 375104
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- Saint-Paul M, Dumas J and Marcus J: Ultrasonic properties near 50 K of the quasi-one-dimensional conductors  $A_{0.30}MoO_3$  (A = K,Rb) and  $Rb_{0.30}(Mo_{1-x}V_x)O_3$  215603
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- Šalkus T, Kazakevičius E, Kežionis A, Dindune A, Kanepe Z, Ronis J, Emery J, Boulant A, Bohnke O and Orliukas A F: Peculiarities of ionic transport in Li<sub>1.3</sub>Al<sub>0.15</sub>Y<sub>0.15</sub>Ti<sub>1.7</sub>(PO<sub>4</sub>)<sub>3</sub> ceramics 185502
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- Samal D and Anil Kumar P S: Observation of the intense de-pairing effect in  $YBa_2Cu_3O_{7-\delta}$  due to the spin injection from  $La_{0.5}Sr_{0.5}CoO_3$  492203
- Samanta T, Das I and Banerjee S: Contribution of energy-gap in the ferromagnetic spin-wave spectrum on magnetocaloric parameters of CeRu<sub>2</sub>Ge<sub>2</sub> 026010
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- Sancho-Juan O, Cantarero A, Garro N, Cros A, Martínez-Criado G, Salomé M, Susini J, Olguín D and Dhar S: X-ray absorption near-edge structure of GaN with high Mn concentration grown on SiC 295801
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- Sbai K, Rahmani A, Chadli H and Sauvajol J-L: Raman-active modes in homogeneous and inhomogeneous bundles of single-walled carbon nanotubes 045302
- Sbihi D E, Grosdidier B, Kaban I, Gruner S, Hoyer W and Gasser J-G: Segregation and temperature effect on the atomic structure of Bi<sub>30</sub>Ga<sub>70</sub> liquid alloy 245107
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- Shah K V, Bonville P, Manfrinetti P, Wrubl F and Dhar S K: The  $Yb_2Al_{1-x}Mg_xSi_2$  series from a spin fluctuation (x = 0) to a magnetically ordered ground state (x = 1) 176001
- Shah L R, Ali B, Zhu H, Wang W G, Song Y Q, Zhang H W, Shah S I and Xiao J Q: Detailed study on the role of oxygen vacancies in structural, magnetic and transport behavior of magnetic insulator: Co-CeO<sub>2</sub> 486004
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- Sifi C, Meradji H, Slimani M, Labidi S, Ghemid S, Hanneche E B and El Haj Hassan F: First principle calculations of structural, electronic, thermodynamic and optical properties of  $Pb_{1-x}Ca_xS, Pb_{1-x}Ca_xSe$  and  $Pb_{1-x}Ca_xTe$  ternary alloys 195401
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- Singh S P, Srivastava P, Ghosh S, Khan S A and Prakash G V: Phase stabilization by rapid thermal annealing in amorphous hydrogenated silicon nitride film 095010

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- Subramanian M A: see Padhan P 306004
- Suchand Sangeeth C S, Jaiswal M and Menon R: Correlation of morphology and charge transport in
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- Sun Y, Balkan N, Aslan M, Lisesivdin S B, Carrere H, Arikan M C and Marie X: Electronic transport in n- and p-type modulation doped Ga<sub>x</sub>In<sub>1-x</sub>N<sub>y</sub>As<sub>1-y</sub>/GaAs quantum wells 174210
- Sun Y and Webb E B III: The atomistic mechanism of high temperature contact line advancement: results from molecular dynamics simulations 464135
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- Suominen T, Huhtinen H, Majumdar S, Paturi P, Zakhvalinskii V S and Laiho R: Persistent photoinduced magnetization and oxygen non-stoichiometry in La<sub>0.9</sub>Ca<sub>0.1</sub>MnO<sub>3</sub> films 266001
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- Syromyatnikov A V: Instability of the collinear phase in a two-dimensional ferromagnet in a strong in-plane magnetic field 216009
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- Tanner P A, Duan C-K, Makhov V N, Kirm M and Khaidukov N M: Vacuum ultraviolet excitation spectra of lanthanide-doped hexafluoroelpasolites 395504
- Tanner P A: see Duan C-K 395501
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- Tegenkamp C: Vicinal surfaces for functional nanostructures 013002
- Teichert C, de Miguel J J and Bobek T: Ion beam sputtered nanostructured semiconductor surfaces as templates for nanomagnet arrays 224025
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- Teobaldi G, Beglitis N S, Fisher A J, Zerbetto F and Hofer W A: Hydroxyl vacancies in single-walled aluminosilicate and aluminogermanate nanotubes 195301
- Teraji T: see Haenen K 364204
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- Tosado J, Dhakal T and Biswas A: Colossal piezoresistance in phase separated manganites 192203
- Tøstesen E, Sandve G K, Liu F and Hovig E: Segmentation of DNA sequences into twostate regions and melting fork regions 034109

Totsuji C, Miyake T, Nakanishi K, Tsuruta K and Totsuji H: A classical-map simulation of two-dimensional electron fluid: an extension of classical-map hypernetted-chain theory beyond the hypernetted-chain approximation 045502

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- Tounsi A, Heireche H, Benzair A and Mechab I: Comment on 'Vibration analysis of fluid-conveying double-walled carbon nanotubes based on nonlocal elastic theory' 448001
- Tovstolytkin A I, Pogorily A M, Dzhezherya Yu I, Dzyublyuk V V and Mapps D J: Interference of coexisting para- and ferromagnetic phases in partially crystallized films of doped manganites 386003

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- Trabada D G and Ortega J: Weak dimers and soft phonons on the  $\beta$ -SiC(100) surface 182003
- Trachenko K and Brazhkin V V: Understanding the problem of glass transition on the basis of elastic waves in a liquid 425104

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- Trepakov V A, Potůček Z, Makarova M V, Dejneka A, Sazama P, Jastrabik L and Bryknar Z: SrTiO<sub>3</sub>:Cr nanocrystalline powders: size effects and optical properties 375303
- Triberis G P and Dimakogianni M: Correlated small polaron hopping transport in 1D disordered systems at high temperatures: a possible charge transport mechanism in DNA 035114
- Triberis G P and Dimakogianni M: Field and temperature dependence of the small polaron hopping electrical conductivity in 1D disordered systems 385406
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- Trioni M I, Fratesi G, Achilli S and Brivio G P: Dynamics of electron distributions probed by helium scattering 264003
- Tripathi G S, Mahanty B G, Tripathi P and Behera S N: Theory of photo-magnetization of an interacting particle system: application to  $Hg_{1-x}Mn_xTe$  056001
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- Tromp R M, Fujikawa Y, Hannon J B, Ellis A W, Berghaus A and Schaff O: A simple energy filter for low energy electron microscopy/photoelectron emission microscopy instruments 314007
- Tröster T: see Praveena R 035108

Trots D: see Singh S P 375902

- Trots D M, Senyshyn A, Vasylechko L, Niewa R, Vad T, Mikhailik V B and Kraus H: Crystal structure of ZnWO<sub>4</sub> scintillator material in the range of 3-1423 K 325402
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- Trybuła Z, Łoś S, Kempiński W, Trybuła M and Piekara-Sady L: The influence of air on the structural phase transition in fullerene  $C_{60}$  435402
- Trzmiel J, Placzek-Popko E, Gumienny Z, Weron K and Becla P: On the relaxation rate distribution of the photoionized DX centers in indium doped  $Cd_{1-x}Mn_x$ Te 215803
- Trzmiel J, Weron K, Janczura J and Placzek-Popko E: Properties of the relaxation time distribution underlying the Kohlrausch–Williams–Watts photoionization of the DX centers
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- Tsai M-R. see Cheng S-C 015505
- Tsen K T and Ferry D K: Studies of electron–phonon and phonon–phonon interactions in InN using ultrafast Raman spectroscopy 174202
- Tserkezis C: Effective parameters for periodic photonic structures of resonant elements 155404
- Tsoi G, Stemshorn A K, Vohra Y K, Wu P M, Hsu F C, Huang Y L, Wu M K, Yeh K W and Weir S T: High pressure superconductivity in iron-based layered compounds studied using designer diamonds 232201
- Tsubota M: Quantum turbulence—from superfluid helium to atomic Bose–Einstein condensates 164207
- Tsud N, Skála T, Šutara F, Veltruská K, Dudr V, Yoshitake M, Prince K C and Matolín V: Low pressure oxidation of ordered Sn/Pd(110) surface alloys 185011
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- Tsujikawa M and Oda T: Electronic structure and magnetic anisotropy of a constrained Fe chain in an electric field 064213 Tsukanov A V: Charge qubit entanglement via conditional
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- Tsumuraya T, Shishidou T and Oguchi T: *Ab initio* study on the electronic structure and vibration modes of alkali and alkaline-earth amides and alanates 185501
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- Tuddenham F E, Hedgeland H, Knowling J, Jardine A P, MacLaren D A, Alexandrowicz G, Ellis J and Allison W: Linewidths in bound state resonances for helium scattering from Si(111)– $(1 \times 1)$ H 264004
- Tuktabiev M A, Popova S V, Brazhkin V V, Lyapin A G and Katayama Y: Compressibility and polymorphism of α-As<sub>4</sub>S<sub>4</sub> realgar under high pressure 385401
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- Tylczyński Z, Członkowska M and Łaniecki M: Various ferroic orderings of triclinic tetrachloro-metallate dihydrate crystals 105403
- Tyunina M, Narkilahti J, Levoska J, Chvostova D, Dejneka A, Trepakov V and Zelezny V: Ultrathin SrTiO<sub>3</sub> films: epitaxy and optical properties 232203
- Tyutnev A P, Saenko V S, Pozhidaev E D and Kolesnikov V A: Verification of the dispersive charge transport in a hydrazone:polycarbonate molecularly doped polymer 115107
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- Ujiie Y, Motooka S, Morimoto T, Aoki N, Ferry D K, Bird J P and Ochiai Y: Regular conductance fluctuations indicative of quasi-ballistic transport in bilayer graphene 382202
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- Uniyal P and Yadav K L: Observation of the room temperature magnetoelectric effect in Dy doped BiFeO<sub>3</sub> 012205
- Uniyal P and Yadav K L: Pr doped bismuth ferrite ceramics with enhanced multiferroic properties 405901
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- Ushakov A V and Streltsov S V: Electronic and magnetic structure for the spin-gapped system CuTe<sub>2</sub>O<sub>5</sub> 305501
- Usher A and Elliott M: Magnetometry of low-dimensional electron and hole systems 103202

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- Usheva A: see Alexandrov B 034107
- Usui H, Arita R and Kuroki K: First-principles study on the origin of large thermopower in hole-doped LaRhO<sub>3</sub> and CuRhO<sub>2</sub> 064223
- Vaccari M, Aquilanti G, Pascarelli S and Mathon O: A new EXAFS investigation of local structural changes in amorphous and crystalline GeO<sub>2</sub> at high pressure 145403
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- Wang G-T, Zhang M-P, Yang Z-X and Fang Z: Orbital orderings and optical conductivity of SrRuO<sub>3</sub> and CaRuO<sub>3</sub>: first-principles studies 265602
- Wang H, Lee J, Dreyer M and Barker B I: A scanning tunneling microscopy study of a new superstructure around defects created by tip-sample interaction on 2H- NbSe<sub>2</sub> 265005
- Wang H and Li M: The elastic stability, bifurcation and ideal strength of gold under hydrostatic stress: an *ab initio* calculation 455401
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- Wang J-J, Sakurai T, Oikawa K, Ishida K, Kikuchi N, Okamoto S, Sato H, Shimatsu T and Kitakami O: Magnetic anisotropy of epitaxially grown Co and its alloy thin films 185008
- Wang J L, Campbell S J, Studer A J, Avdeev M, Zeng R and Dou S X: Magnetic phase transitions in Pr<sub>1-x</sub>Lu<sub>x</sub>Mn<sub>2</sub>Ge<sub>2</sub> compounds 124217
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- Wang L, Hua L and Chen L F: First-principles investigation of the structural, magnetic and electronic properties of perovskite  $SrRu_{1-x}Mn_xO_3$  495501

- Wang L, Zhang H W and Deng X M: The influence of tube length, radius and chirality on the buckling behavior of single-walled carbon nanotubes filled with copper atoms 305301
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- Wang X L, Dou S X, Ren Z-A, Yi W, Li Z-C, Zhao Z-X and Lee S-IK: Unconventional superconductivity of NdFeAsO<sub>0.82</sub> $F_{0.18}$  indicated by the low temperature dependence of the lower critical field  $H_{c1}$  205701
- Wang X-P: see Qian T 464119
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- Wang Y, Ding Y and Ni J: Ground-state phase diagram of Na<sub>x</sub>CoO<sub>2</sub>: correlation of Na ordering with CoO<sub>2</sub> stacking sequences 035401
- Wang Y, Hector L G Jr, Zhang H, Shang S L, Chen L Q and Liu Z K: A thermodynamic framework for a system with itinerant-electron magnetism 326003
- Wang Y and Ni J: Pressure-induced structural phase transitions on Na<sub>0.5</sub>CoO<sub>2</sub>: a first principles study 155401
- Wang Y, Sui Yu, Wang X and Su W: Structure, transport and magnetic properties of electron-doped perovskites  $R_x Ca_{1-x} MnO_3$  (R = La, Y and Ce) 196004
- Wang Y, Wang A, Qu H and Zocchi G: Protein–DNA chimeras: synthesis of two-arm chimeras and non-mechanical effects of the DNA spring 335103
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- Wetherall K M, Pickup D M, Newport R J and Mountjoy G: The structure of calcium metaphosphate glass obtained from x-ray and neutron diffraction and reverse Monte Carlo modelling 035109
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- Wu G, Wu T, Li Z, Zhao L, Liu R H, Chen H, Fang D F, Luo J L and Chen X H: Transport properties and the large anisotropic magnetoresistance of Cu<sub>x</sub>NbS<sub>2</sub> single crystals 275601
- Wu G, Xie Y L, Chen H, Zhong M, Liu R H, Shi B C, Li Q J, Wang X F, Wu T, Yan Y J, Ying J J and Chen X H: Superconductivity at 56 K in samarium-doped SrFeAsF 142203
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- Xia X-J and Ng T-K: Thermal conductivity, Fermi pockets and superconductivity in underdoped cuprates 115703
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- Xiang T: see Yang L P 145407 Xiang Y: see Chen Y 146004
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- Xiao J and Dowben P A: Changes in the adsorbate dipole layer with changing d-filling of the metal (II) (Co, Ni, Cu) phthalocyanines on Au(111) 052001
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- Xiao Z R, Fan X F, Guan L X, Huan C H A, Kuo J L and Wang L: First-principles study of the magnetization of oxygen-depleted In<sub>2</sub>O<sub>3</sub>(001) surfaces 272202
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- Xu L-Z, Liu Y-L, Zhou H-B, Liu L-H, Zhang Y and Lu G-H: Ideal strengths, structure transitions, and bonding properties of a ZnO single crystal under tension 495402
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- Xu Y, Hao X, Meng J, Zhou D and Gao F: Electronic and magnetic properties of the monoclinic phase BiCrO3 from first-principles studies 236006
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- Yamato Y, Matsukawa M, Nimori S, Suryanarayanan R, Murano Y, Nakanishi Y, Apostu M, Revcolevschi A, Koyama K and Kobayashi N: Effect of pressure on lattice distortion, transport and magnetic properties of Pr-substituted La<sub>1.2</sub>Sr<sub>1.8</sub>Mn<sub>2</sub>O<sub>7</sub> bilayered manganite 486001
- Yamauchi K and Picozzi S: Magnetically induced ferroelectricity in TbMnO<sub>3</sub>: inverse Goodenough–Kanamori interaction 064203
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- Yang H P, Shi L, Zhou S M, Zhao J Y, He L F and Jia Y B: Electron spin resonance study of polycrystalline  $La_{0.75}(Ca_x Sr_{1-x})_{0.25}MnO_3 (x = 0, 0.45, 1)$  046002
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- Yang J, Ma S and Xu Y: Quantum theory of the anisotropy of the magnetic properties of ferrimagnetic holmium iron garnet single crystals 096004
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- Yang Y, Bai L G, Zhu K, Liu Y L, Jiang S, Liu J, Chen J and Xing X R: High pressure Raman investigations of multiferroic BiFeO<sub>3</sub> 385901
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- Yin Y, Sun K, Xu W J, Ran G Z, Qin G G, Wang S M and Wang C Q: 1.53  $\mu$ m photo- and electroluminescence from Er<sup>3+</sup> in erbium silicate 012204
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- Zeidler A, Drewitt J W E, Salmon P S, Barnes A C, Crichton W A, Klotz S, Fischer H E, Benmore C J, Ramos S and Hannon A C: Establishing the structure of GeS<sub>2</sub> at high pressures and temperatures: a combined approach using x-ray and neutron diffraction 474217
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- Zhang H, Smith S C, Nanbu S and Nakamura H: Quantum mechanical study of atomic hydrogen interaction with a fluorinated boron-substituted coronene radical 144209
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- Zhou Y K, Kimura S, Emura S, Hasegawa S and Asahi H: Formation of aligned CrN nanoclusters in Cr-delta-doped GaN 064216
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- Zhu G, Dai Y, Shu D, Wang J and Sun B: Substitution behavior of Si in  $Al_3Ti$  ( $D0_{22}$ ): a first-principles study 415503
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- Zhu X, Sun Y, Zhang S, Wang J, Zou L, DeLong L E, Zhu X, Luo X, Wang B, Li G, Yang Z and Song W: Anisotropic intermediate coupling superconductivity in Cu<sub>0.03</sub>TaS<sub>2</sub> 145701
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Zhydachevskii Ya, Buryy O, Sugak D, Ubizskii S, Börger A, Becker K-D, Suchocki A and Berkowski M: Optical *in situ* study of the reduction/oxidation processes in YAIO<sub>3</sub>:Mn crystals 175411

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