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Balda R, Fernández J, Arriandiaga M A and Fernández-Navarro J M: Spectroscopy and frequency upconversion in  $\text{Nd}^{3+}$ -doped  $\text{TeO}_2\text{-TiO}_2\text{-Nb}_2\text{O}_5$  glass 086223  
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- Bass J and Pratt W P Jr: Spin-diffusion lengths in metals and alloys, and spin-flipping at metal/metal interfaces: an experimentalist's critical review [183201](#)
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- Belabbes A, Zaoui A and Ferhat M: Lattice mismatch consequences for the intrinsic characteristics in the dilute (Zn, Se)O alloys [456212](#)
- Belashchenko K: *see* Wu N [156224](#)
- Belevtsev B I, Belyayev E Yu, Naugle D G, Rathnayaka K D D, Anatska M P and Felner I: Granular superconductivity in polycrystalline ruthenocuprate RuSr<sub>2</sub>(Gd<sub>1.5</sub>Ce<sub>0.5</sub>)Cu<sub>2</sub>O<sub>10-δ</sub>: magnetoresistive and magnetization studies [036222](#)
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- Belgacem H: *see* Longeaud C [476202](#)
- Belhadji B, Bergqvist L, Zeller R, Dederichs P H, Sato K and Katayama-Yoshida H: Trends of exchange interactions in dilute magnetic semiconductors [436227](#)
- Beliayev E Yu: *see* Belevtsev B I [036222](#)
- Belik A A, Tsujii N, Huang Q, Takayama-Muromachi E and Takano M: Re-entrant spin-glass behaviour of geometrically frustrated SrFe<sub>3</sub>(PO<sub>4</sub>)<sub>3</sub>O [145221](#)
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- Beling C D: *see* Cheung C K [486002](#)
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- Bellido N, Martin C, Simon C and Maignan A: Coupled negative magnetocapacitance and magnetic susceptibility in a Kagomé staircase-like compound Co<sub>3</sub>V<sub>2</sub>O<sub>8</sub> [056001](#)
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- Bellucci S, Bolesta I, Cestelli Guidi M, Karbovnyk I, Lesivciv V, Micciulla F, Pastore R, Popov A I and Velgosh S: Cadmium clusters in CdI<sub>2</sub> layered crystals: the influence on the optical properties [395015](#)
- Bellucci S, Carillo F and Onorato P: Spin separation in a T ballistic nanojunction due to lateral-confinement-induced spin-orbit coupling [395018](#)
- Bellucci S, Cini M, Onorato P and Perfetto E: The influence of dimensionality on superconductivity in carbon nanotubes [395016](#)
- Bellucci S, Corrente F and Onorato P: Spin Hall effect and spin filtering in ballistic

- nanojunctions [395019](#)
- Bellucci S, González J, Guinea F, Onorato P and Peretto E: Magnetic field effects in carbon nanotubes [395017](#)
- Bellucci S and Onorato P: Filtering of spin currents based on a ballistic ring [395020](#)
- Bellucci S: *see* De Nicola M [395013](#)
- Bellucci S: *see* Ramoni R [395012](#)
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- Belonoshko A B: *see* Koči L [016206](#)
- Belsley M: *see* Ribeiro J L [176225](#)
- Beltjukov P A, Kibrik G E, Furman G B and Goren S D: Thermal mixing in multiple-pulse nuclear quadrupole resonance spin-locking [436217](#)
- ben-Avraham D and Glasser M L: Diffusion-limited one-species reactions in the Bethe lattice [065107](#)
- Bena I, Droz M, Martens K and Rácz Z: Reaction-diffusion fronts with inhomogeneous initial conditions [065103](#)
- Benayas A, Jaque D, García Solé J, Leonyuk N I, Bovero E, Cavalli E and Bettinelli M: Effects of neodymium incorporation on the structural and luminescence properties of the  $\text{YAl}_3(\text{BO}_3)_4$ - $\text{NdAl}_3(\text{BO}_3)_4$  system [246204](#)
- Bendler J T, Fontanella J J and Shlesinger M F: Anomalous diffusion producing normal relaxation and transport [065121](#)
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- Benedetti S: *see* Valeri S [225002](#)
- Bénichou O, Loverdo C, Moreau M and Voituriez R: A minimal model of intermittent search in dimension two [065141](#)
- Benmore C J, Mei Q, Siewenie J E and Yarger J L: Comment on 'Microscopic structural evolution during the liquid-liquid transition in triphenyl phosphite' by R Kurita, Y Shinohara, Y Amemiya and H Tanaka [408001](#)
- Benmore C J: *see* Mei Q [415103](#)
- Beran P: *see* García-Muñoz J L [406212](#)
- Bérardan D and Guilmeau E: Magnetic properties of bulk Fe-doped indium oxide [236224](#)
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- Berezhkovskii A M and Bezrukov S M: Site model for channel-facilitated membrane transport: invariance of the translocation time distribution with respect to direction of passage [065148](#)
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- Berger H: *see* Miljak M [196203](#)
- Berger H: *see* Zorko A [145278](#)
- Berger S: *see* Melnychenko-Koblyuk N [046203](#)
- Bergersen H, Marinho R R T, Pokapanich W, Lindblad A, Björneholm O, Sæthre L J and Öhrwall G: A photoelectron spectroscopic study of aqueous tetrabutylammonium iodide [326101](#)
- Bergman A, Nordström L, Klautau A B, Frota-Pessôa S and Eriksson O: A first-principles study of the magnetism and electronic structure of Cr clusters supported on a Au(111) surface [156226](#)
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- Bergqvist L and Dederichs P H: A theoretical study of half-metallic antiferromagnetic diluted magnetic semiconductors [216220](#)
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- Berman O L, Lozovik Y E, Snoko D W and Coalson R D: Superfluidity of 'dirty' indirect magnetoexcitons in coupled quantum wells in high magnetic field [386219](#)
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- Berry F J, Dmitrieva T V, Ovanesyan N S, Lyubutin I S, Thomas M F, Sarkisyan V A, Ren X, Aminov T G, Shabunina G G, Rudenko V, Vorotynov A and Dubinskaya Yu L: Magnetic order in  $\text{FeCr}_2\text{S}_4$ -type chalcogenide spinels [266204](#)
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- Berthier L and Kob W: The Monte Carlo dynamics of a binary Lennard-Jones glass-forming mixture [205130](#)
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Bhattacharjee A, van Koningsbruggen P J, Hibbs W, Miller J S and Guti lich P: Study of thermal spin crossover in  $[Fe(II)(isoxazole)_6](BF_4)_2$  with M ssbauer spectroscopy 406202  
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- Borca C N, Ristoiu D, Jeong H-K, Komesu T,  
Caruso A N, Pierre J, Ranno L, Nozières J P  
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- Bordogna C M and Albano E V: Statistical  
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- Borges R P, da Silva R C, Magalhães S,  
Cruz M M and Godinho M: Magnetism in  
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- Bormio-Nunes C, Sandim M J R and Ghivelder L:  
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- Borowiec M T, Dyakonov V P, Woźniak K,  
Dobrzycki Ł, Berkowski M, Zubov E E,  
Michalski E, Szewczyk A, Gutowska M U,  
Zayarnyuk T and Szymczak H: Crystal  
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- Borri P and Langbein W: Four-wave mixing  
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- Borst D R: *see* Ventrice C A Jr [315207](#)
- Borstel G: *see* Shi H [056007](#)
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- Borza S, Peeters F M, Vasilopoulos P and Papp G:  
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confined non-magnetic/magnetic  
heterostructures [176221](#)
- Boscherini F, Malvestuto M, Ciatto G,  
D'Acapito F, Bisognin G, De Salvador D,  
Berti M, Felici M, Polimeni A and  
Nabetani Y: X-ray absorption and diffraction  
study of II–VI dilute oxide semiconductor  
alloy epilayers [446201](#)
- Bose E, Karmakar S and Chaudhuri B K: Small  
polaron hopping conduction and magnetic  
frustration in the electron-doped charge  
ordered Ca<sub>0.85</sub>La<sub>0.15</sub>MnO<sub>3</sub> system [486201](#)
- Bose E, Karmakar S, Chaudhuri B K, Pal S,  
Martin C, Hébert S and Maignan A:  
Correlation of structural, magnetic and  
transport properties with the tolerance factor  
in a low-doped La<sub>0.875</sub>Sr<sub>0.125-x</sub>Ca<sub>x</sub>MnO<sub>3</sub>, (0  
≤ x ≤ 0.125) system: cross-over from Mott to  
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- Boucherle J-X: *see* Givord F [506210](#)
- Boufelfel A: *see* Zanat K [386229](#)
- Bouizem Y, Belfedal A, Sib J D, Kebab A and  
Chahed L: Hydrogen-bonding configuration  
effects on the optoelectronic properties of  
glow discharge a-Si<sub>1-x</sub>Ge<sub>x</sub>:H with large x  
[356215](#)
- Boukheddaden K, Linares J, Tanasa R and  
Chong C: Theoretical investigations on an  
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- Chen D, Hu W, Yang J and Sun L: The dynamic diffusion behaviors of 2D small Fe clusters on a Fe(110) surface [446009](#)
- Chen D, Zhong J, Chu W, Wu Z, Kuzmin A, Mironova-Ulmane N and Marcelli A: Structural disorder and electronic hybridization in  $\text{Ni}_c\text{Mg}_{1-c}\text{O}$  solid solutions probed by XANES at the oxygen K edge [356219](#)
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- Chen G, Chen Z and Yu L: The Berry phase in GaAs semiconductor with a quantized field [096005](#)
- Chen G: *see* Anand V K [506205](#)
- Chen G: *see* Rapaport R [295207](#)
- Chen H, He C, Gao C, Ma Y, Zhang J, Wang X, Gao S, Li D, Kan S and Zou G: The structural transition of  $\text{Gd}_2\text{O}_3$  nanoparticles induced by high pressure [425229](#)
- Chen H: *see* Liu Y-S [246201](#)
- Chen H: *see* Wang Y [425219](#)
- Chen H C: *see* Hsueh W J [266007](#)
- Chen J, Jin G and Ma Y-q: Asymmetric magnetization reversal in ferromagnetic/antiferromagnetic bilayers [236225](#)
- Chen J, Tang D, Zhang B, Yang Y, Lu M and Lu H: Inhomogeneous exciting field dependence of permeability and microwave properties of trilayer ferromagnetic films with in-plane uniaxial anisotropy [346227](#)
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- Chen N: *see* Cai J [266207](#)
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- Chen P, Wu R-x, Xu J, Jiang A and Ji X: Effects of magnetic anisotropy on the stop band of ferromagnetic electromagnetic band gap materials [106205](#)
- Chen P: *see* Inam F [455206](#)
- Chen Q, Cai L, Zhang Y, Gu Y and Jing F: Self-consistent fluid variational theory for the equation of state and dissociation of dense hydrogen and nitrogen [425209](#)
- Chen Q: *see* Huang H [296202](#)
- Chen Q: *see* Song F [136002](#)
- Chen Q F: *see* Liu Z J [246103](#)
- Chen R H, Chen L-F and Chia C-T: Impedance spectroscopic studies on congruent  $\text{LiNbO}_3$  single crystal [086225](#)
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- Chen W: *see* Wang H [156217](#)
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- Chen X-J, Struzhkin V V, Goncharov A F, Hemley R J and Mao H-k: Oxygen isotope effect in a high-temperature superconductor under high pressure [425236](#)
- Chen X S: *see* Shu H B [276213](#)
- Chen Y, Shang J-X and Zhang Y: Effects of alloying element Ti on  $\alpha$ - $\text{Nb}_5\text{Si}_3$  and  $\text{Nb}_3\text{Al}$  from first principles [016215](#)
- Chen Y: *see* Zhang X-Y [266211](#)
- Chen Y X: *see* Tian Y F [326206](#)
- Chen Y Z, Sun J R, Wang D J, Liang S, Wang J Z, Han Y N, Han B S and Shen B G: Electronic transport properties of charge-ordered  $\text{Bi}_{0.4}\text{Ca}_{0.6}\text{MnO}_3$  film [442001](#)
- Chen Z: *see* Chen G [096005](#)
- Chen Z: *see* Wang X [026206](#)
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- Chen Z-h, Zu F-q, Li X-f, Yu J, Xi Y and Shen R-r: Temperature-induced liquid-liquid transition process in eutectic Pb-Sn melt explored from kinetic viewpoint [116106](#)
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- Cheng D, Wang W and Huang S:  
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- Chernyshev V A, Abrosimov A V, Gastev S V, Krupin A V, Nikiforov A E, Choi J K, Reeves R J, Suturin S M and Sokolov N S: Energy structure of  $\text{Eu}^{3+}$  centres in  $\text{CdF}_2\text{-CaF}_2\text{:Eu}$  superlattices on silicon [395023](#)
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- Choi K-Y, Lemmens P, Scheib P, Gnezdilov V, Pashkevich Yu G, Hemberger J, Loidl A and Tsurkan V: Anomalous electronic, phonon, and spin excitations in the chalcogenide spinel  $\text{FeCr}_2\text{S}_4$  [145260](#)
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- Chornodolskyy Ya, Stryganyuk G, Syrotyuk S, Voloshinovskii A and Rodnyi P: Features of the core-valence luminescence and electron energy band structure of  $\text{A}_{1-x}\text{Cs}_x\text{CaCl}_3$  (A = K, Rb) crystals [476211](#)
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- Cisneros R, Ramírez C and Wang C: Ellipsometry and *ab initio* approaches to the refractive

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- Claesson E M, Ern  B H, Bakelaar I A, Kuipers B W M and Philipse A P: Measurement of the zero-field magnetic dipole moment of magnetizable colloidal silica spheres [036105](#)
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- Clerc F, Battaglia C, Cercellier H, Monney C, Berger H, Despont L, Garnier M G and Aebi P: Fermi surface of layered compounds and bulk charge density wave systems [355002](#)
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- Colakoglu K: *see* Ciftci Y O [326204](#)
- Çolakoglu K: *see* Deligöz E [436204](#)
- Cole J M, Wright A C, Newport R J, Sinclair R N, Fischer H E, Cuello G J and Martin R A: The structure of the rare-earth phosphate glass  $(\text{Sm}_2\text{O}_3)_{0.205}(\text{P}_2\text{O}_5)_{0.795}$  studied by anomalous dispersion neutron diffraction [056002](#)
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- Colineau E, Sanchez J P, Wastin F, Boulet P and Rebizant J: Magnetic properties of  $\text{NpNiGa}_5$  [246202](#)
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- Collins S P, Lovesey S W and Balcar E: Dichroism and resonant diffraction in x-ray scattering by complex materials [213201](#)
- Colmenero J, Narros A, Alvarez F, Arbe A and Moreno A J: Atomic motions in the  $\alpha\beta$ -region of glass-forming polymers: molecular versus mode coupling theory approach [205127](#)
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- Comedi D, Heluani S P, Villafuerte M, Arce R D and Koropecski R R: Power-law photoconductivity time decay in nanocrystalline  $\text{TiO}_2$  thin films [486205](#)
- Comtet A: *see* Ziff R M [065102](#)
- Coniglio A, Abete T, de Candia A, Del Gado E and Fierro A: Static and dynamic heterogeneities in irreversible gels and colloidal gelation [205103](#)
- Connolly J, van Duijneveldt J S, Klein S, Pizzey C and Richardson R M: Manipulation of modified clay particles in a nematic solvent by a magnetic field [156103](#)
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- Cordone L, Cottone G and Giuffrida S: Role of residual water hydrogen bonding in sugar/water/biomolecule systems: a possible explanation for *trehalose peculiarity* [205110](#)
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- Cosio-Castaneda C, Tavizon G, Baeza A, de la Mora P and Escudero R: Structure and magnetic properties of the weak ferromagnet  $\text{Sr}_{2-x}\text{La}_x\text{IrO}_4$  [446210](#)
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- Coussa C, Martinet C, Champagnon B, Grosvalet L, Vouagner D and Sigaev V: *In situ* Raman spectroscopy of pressure-induced changes in  $\text{LaBGeO}_5$  glass: hysteresis and plastic deformation [266220](#)
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- Coutinho-Filho M D: *see* dos Santos I F [476213](#)
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- Cox S, Lashley J C, Rosten E, Singleton J, Williams A J and Littlewood P B: Evidence for the charge-density-wave nature of the stripe phase in manganites [192201](#)
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- Cristiglio V, Hennet L, Cuello G J, Pozdnyakova I, Johnson M R, Fischer H E, Zanghi D, Van Q V, Wilding M C, Greaves G N and Price D L: Structure of molten yttrium aluminates: a neutron diffraction study [415105](#)
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- Cristiglio V: *see* Hennet L [455210](#)
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- De Bellis G: *see* Ramoni R [395012](#)
- de Camargo A S S, Nunes L A O, Silva J F, Costa A C F M, Barros B S, Silva J E C, de Sá G F and Alves S Jr: Efficient green and red upconversion emissions in  $\text{Er}^{3+}/\text{Yb}^{3+}$  co-doped  $\text{ZnAl}_2\text{O}_4$  phosphor obtained by combustion reaction [246209](#)
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- De K, Majumdar S and Giri S: Inhomogeneous phase separation and domain wall dynamics in orthorhombically distorted  $\text{La}_{0.87}\text{MnO}_x$  [096205](#)
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- de Moura F A B F, Lyra M L, Domínguez-Adame F and Malyshev V A: Coherent electron dynamics in a two-dimensional random system with mobility edges [056204](#)
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- De Nicola M, Mirabile Gattia D, Bellucci S, De Bellis G, Micciulla F, Pastore R, Tiberia A, Cerella C, D'Alessio M, Vittori Antisari M, Marazzi R, Traversa E, Magrini A, Bergamaschi A and Ghibelli L: Effect of different carbon nanotubes on cell viability and proliferation [395013](#)
- de Oliveira Neto S R, Kinast E J, Gusmão M A, dos Santos C A, Isnard O and da Cunha J B M: X-ray diffraction and magnetic susceptibility measurements for  $\text{Fe}_x\text{Ni}_{1-x}\text{Ta}_2\text{O}_6$  [356210](#)
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- Deac A, Liu Y, Redon O, Petit S, Li M, Wang PK, Nozières J-P and Diény B: Study of spin-transfer-induced dynamics in spin-valves for current-perpendicular-to-plane magnetoresistive heads [165208](#)
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- Delfino I, Bonanni B, Andolfi L, Baldacchini C, Bizzarri A R and Cannistraro S: Yeast cytochrome c integrated with electronic elements: a nanoscopic and spectroscopic study down to single-molecule level [225009](#)
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- Devika M, Koteeswara Reddy N, Sreekantha Reddy D, Venkatramana Reddy S, Ramesh K, Gopal E S R, Gunasekhar K R, Ganesan V and Hahn Y B: Optimization of the distance between source and substrate for device-grade SnS films grown by the thermal evaporation technique [306003](#)
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- Díaz-Guillén J A, Díaz-Guillén M R, Almanza J M, Fuentes A F, Santamaría J and León C: Effect of La substitution for Gd in the ionic conductivity and oxygen dynamics of fluorite-type  $\text{Gd}_2\text{Zr}_2\text{O}_7$  [356212](#)
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- Doering C R, Sargsyan K V, Sander L M and Vanden-Eijnden E: Asymptotics of rare events in birth–death processes bypassing the exact solutions [065145](#)
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- Ghiringhelli L M, Caputo R and Site L D: Alkanethiol headgroup on metal (111)-surfaces: general features of the adsorption onto group 10 and 11 transition metals 176004
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- Ghosh A, Bhattacharya S, Bhattacharya D P and Ghosh A: DC electrical properties of cadmium vanadate glassy semiconductors: a comparison with traditional glasses 106222
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- Givord F, Boucherle J-X, Galéra R-M, Fillion G and Lejay P: Ferromagnetism and crystal electric field in the cerium compound  $\text{CeRh}_3\text{B}_2$  [356208](#)
- Givord F, Boucherle J-X, Murani A P, Bewley R, Galéra R-M and Lejay P: Crystal electric field excitations in the cerium compound  $\text{CeRh}_3\text{B}_2$  studied by inelastic neutron scattering [506210](#)
- Glans P A: *see* Guo J-H [172202](#)
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- Gmati F, Fattoum A, Bohli N, Dhaoui W and Mohamed A B: Comparative studies of the structure, morphology and electrical conductivity of polyaniline weakly doped with chlorocarboxylic acids [326203](#)
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- Goel A, Shaaban E R, Ribeiro M J, Melo F C L and Ferreira J M F: Influence of NiO on the crystallization kinetics of near stoichiometric cordierite glasses nucleated with  $\text{TiO}_2$  [386231](#)
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- Gondek Ł, Szytuła A, Kaczorowski D, Szewczyk A, Gutowska M and Piekarczyk P: Multiple magnetic phase transitions in  $\text{Tb}_3\text{Cu}_4\text{Si}_4$  [246225](#)
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- Gonzalez de la Cruz G and Gurevich Yu G: Nonlinearity in the theory of hot electrons due to excess of charge carriers in the presence of electric field [456220](#)
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- González R L, Leyet Y, Guerrero F, de Los S Guerra J, Venet M and Eiras J A: Relaxation dynamics of the conductive processes for  $\text{PbNb}_2\text{O}_6$  ferroelectric ceramics in the frequency and time domain [136218](#)
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- Goodwin A L, Withers R L and Nguyen H-B: Real-space refinement of single-crystal electron diffuse scattering and its application to  $\text{Bi}_2\text{Ru}_2\text{O}_{7-\delta}$  [335216](#)
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- Gopinadhan K, Pandya D K, Kashyap S C and Chaudhary S: On the blueshift in  $\text{Sn}_{1-x}\text{Co}_x\text{O}_{2-\delta}$  transparent ferromagnetic semiconductor thin films [016216](#)
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- Goresy T E and Böhmer R: Dielectric relaxation processes in solid and supercooled liquid solutions of acetaminophen and

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- Gorev M, Bondarev V, Flerov I, Maglione M and Simon A: Heat capacity and thermal expansion study of  $\text{Ba}_{0.9}\text{Bi}_{0.067}(\text{Ti}_{1-x}\text{Zr}_x)\text{O}_3$  ceramics [346237](#)
- Gorju G, Louchet A, Paboeuf D, Bretenaker F, Goldfarb F, Chanelière T, Lorgeré I, Le Gouët J-L, Guillot-Noël O and Goldner Ph: Stimulated optical pumping in a  $\text{Tm}^{3+}$ :YAG crystal [386226](#)
- Gorley P M, Dugaev V K, Barnas J, Horley P P and Mysliuk O M: Spin polarization and relaxation in a semiconductor with impurity absorption of circularly polarized light [266205](#)
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- Gouder T, Havela L, Shick A B, Huber F, Wastin F and Rebizant J: Variability of 5f states in plutonium carbides [476201](#)
- Goudochnikov P and Bell A J: Correlations between transition temperature, tolerance factor and cohesive energy in 2+:4+ perovskites [176201](#)
- Goulon J, Jaouen N, Rogalev A, Wilhelm F, Goulon-Ginet C, Brouder C, Joly Y, Ovchinnikova E N and Dmitrienko V E: Vector part of optical activity probed with x-rays in hexagonal ZnO [156201](#)
- Goulon-Ginet C: *see* Goulon J [156201](#)
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- Goyal P S: *see* Joshi J V [196219](#)
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- Goyette R: *see* Krishnan R S [356003](#)
- Graça M P F, Valente M A, Peres M, Cruz A, Soares M J, Neves A J, Monteiro T, Alves L C and Alves E: Structural and optical properties of  $\text{Er}^{3+}$  ion in sol-gel grown  $\text{LiNbO}_3$  [016213](#)
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- Grafouté M, Petitjean C, Rousselot C, Pierson J F and Grenèche J M: Structural properties of iron oxynitride films obtained by reactive magnetron sputtering [226207](#)
- Grandi T A: *see* de Lima J C [186216](#)
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- Grigoriev S V, Maleyev S V, Okorokov A I, Chetverikov Yu O and Eckerlebe H: The magnetic structure of MnSi under an applied field [145286](#)
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- Grzechnik A, Fechtelkord M, Morgenroth W, María Posse J and Friese K: Crystal structure and stability of  $\beta\text{-Na}_2\text{ThF}_6$  at non-ambient conditions [266219](#)
- Grzechnik A, Gesland J-Y and Friese K: High-pressure behaviour of  $\text{Li}_2\text{CaHfF}_8$  scheelite [096215](#)
- Grzybowska K, Grzybowski A, Ziolo J, Rzoska S J and Paluch M: Anomalous behavior of secondary dielectric relaxation in polypropylene glycols [376105](#)
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- Gu Q F: *see* Krauss G [116203](#)
- Gu S-J, Peres N M R and Carmelo J M P: Charge and spin transport in the one-dimensional Hubbard model [506203](#)
- Gu X and Gong X-G: Structural transitions of non-helical Au nanotubes induced by axial

- compression [242205](#)
- Gu Y, Zhang X, Wang X, Huang Y, Qi J and Zhang Y: A quantum explanation of the abnormal magnetic behaviour in Mn-doped ZnO nanowires [236223](#)
- Gu Y: *see* Chen Q [425209](#)
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- Guan X: *see* Pan F [386208](#)
- Gubbiotti G, Madami M, Tacchi S, Carlotti G, Pasquale M, Singh N, Goolaup S and Adeyeye A O: Field evolution of the magnetic normal modes in elongated permalloy nanometric rings [406229](#)
- Gubbiotti G, Tacchi S, Carlotti G, Ono T, Roussigné Y, Tiberkevich V S and Slavin A N: Discrete modes of a ferromagnetic stripe dipolarly coupled to a ferromagnetic film: a Brillouin light scattering study [246221](#)
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- Guillén-Escamilla I, Chávez-Páez M and Castañeda-Priego R: Structure and thermodynamics of discrete potential fluids in the OZ-HMSA formalism [086224](#)
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- Guinea F: *see* Bellucci S [395017](#)
- Guinet Y: *see* Hédoux A [205142](#)
- Guionneau P, Le Gac F, Lakhoufi S, Kaiba A, Chasseau D, Létard J-F, Négrier P, Mondieig D, Howard J A K and Léger J-M: X-ray diffraction investigation of a spin crossover hysteresis loop [326211](#)
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- Guo C: *see* Wang J [196224](#)
- Guo H: *see* Wen J [455211](#)
- Guo H B: *see* Yan H F [026219](#)
- Guo J, Bian X, Zhao Y, Zhang S, Li T and Wang C: Correlation between the fragility of supercooled liquids and thermal expansion in the glassy state for Gd-based glass-forming alloys [116103](#)
- Guo J: *see* Teng J [356005](#)
- Guo J-H, Gupta A, Sharma P, Rao K V, Marcus M A, Dong C L, Guillen J M O, Butorin S M, Mattesini M, Glans P A, Smith K E, Chang C L and Ahuja R: X-ray spectroscopic study of the charge state and local ordering of room-temperature ferromagnetic Mn-doped ZnO [172202](#)
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- Guo L: *see* He L [036216](#)
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- Gupta A: *see* Kothari D [136202](#)
- Gupta A: *see* Rajput P [036221](#)
- Gupta A: *see* Ventrice C A Jr [315207](#)
- Gupta R K and Whang C M: Structural study of a sol-gel derived novel solid oxide fuel cell perovskite:  $(\text{La}_{1-x}\text{Sr}_x)(\text{Cr}_{0.85}\text{Fe}_{0.05}\text{Co}_{0.05}\text{Ni}_{0.05})\text{O}_{3-\delta}$  [196209](#)
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- Gür E, Tüzemen S, Kiliç B and Coşkun C: High-temperature Schottky diode characteristics of bulk ZnO [196206](#)
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- Gusynin V P, Sharapov S G and Carbotte J P: Magneto-optical conductivity in graphene [026222](#)
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- Guyot Y: *see* Amami J [096204](#)
- Guzmán P G: *see* Nasello O B [246218](#)
- Gvasaliya S N, Roessli B, Cowley R A, Kojima S and Lushnikov S G: Neutron scattering studies of the mechanism of ferroelectricity in 68%PbMg<sub>1/3</sub>Nb<sub>2/3</sub>O<sub>3</sub>-32%PbTiO<sub>3</sub> [016219](#)
- Gvasaliya S N: *see* Lushnikov S G [496206](#)
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- Hadacek N, Nosov A, Ranno L, Strobel P and Galéra R-M: Magnetic properties of HfO<sub>2</sub> thin films 486206
- Hadano Y: *see* Ribeiro R A 376211
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- Hafner J: *see* Termentzidis K 246219
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- Haga Y: *see* Ōnuki Y 125203
- Haga Y: *see* Oyamada A 145246
- Hagemann H, Rief A, Kubel F, van Mechelen J L M, Tran F and Blaha P: Mixed PbFBr<sub>1-x</sub>I<sub>x</sub> crystals: structural and spectroscopic investigations 036214
- Hager G: *see* Hohenadler M 255202
- Hagihala M, Zheng X G, Toriyi T and Kawae T: Antiferromagnetism and geometric frustration in tetrahedral lattice hydroxyhalides M<sub>2</sub>(OH)<sub>3</sub>X 145281
- Hagita K, Arai T, Kishimoto H, Umesaki N, Shinohara Y and Amemiya Y: Two-dimensional pattern reverse Monte Carlo method for modelling the structures of nano-particles in uniaxial elongated rubbers 335217
- Hagiwara Y: *see* Boero M 365217
- Hague J P, Kornilovitch P E, Samson J H and Alexandrov A S: Superlight small bipolarons 255214
- Hahn Y B: *see* Devika M 306003
- Hai N T: *see* Hoang V V 116104
- Hajnal J V: *see* Wiltshire M C K 456216
- Hall A, Swenson J, Karlsson C, Adams S and Bowron D T: Structure of Ag<sub>x</sub>Na<sub>1-x</sub>PO<sub>3</sub> glasses by neutron diffraction and reverse Monte Carlo modelling 415115
- Hama H, Motomura R, Shinozaki T and Tsunoda Y: Spin-flip transition of L1<sub>0</sub>-type MnPt alloy single crystal studied by neutron scattering 176228
- Hamad S: *see* Grau-Crespo R 256201
- Hamada I: *see* Oda T 365211
- Hamada N, Imai T and Funashima H: Thermoelectric power calculation by the Boltzmann equation: Na<sub>x</sub>CoO<sub>2</sub> 365221
- Hämäläinen K: *see* Mattila A 386206
- Hamel G: *see* Calderon E 436228
- Hamma M, Miranda R P, Vasilevskiy M I and Zorkani I: Calculation of the Huang-Rhys parameter in spherical quantum dots: the optical deformation potential effect 346215
- Hammonds K D: *see* Dove M T 275209
- Han B S: *see* Chen Y Z 442001
- Han W-J: *see* Pan F 386208
- Han X, Honda Y, Narita T, Yamaguchi M and Sawaki N: Transport properties of the two-dimensional electron gas in Al<sub>x</sub>Ga<sub>1-x</sub>N/GaN heterostructures 046204
- Han Y N: *see* Chen Y Z 442001
- Hanashima K: *see* Saito T 145215
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- Hang D R: *see* Huang C F 026205
- Hänggi P: *see* Heinsalu E 065114
- Hänggi P: *see* Mokshin A V 046209
- Hanley H J M, Muzny C D, Bartlett J and Drabarek E: Universal behaviour of silica suspensions gelled under shear 416108
- Hanna K J: *see* Ferralis N 056011
- Hannaford P: *see* Wen X M 386213
- Hannon A C: *see* Wright A C 415109
- Hansen J P: *see* Popsueva V 196204
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- Hansmann U H E: *see* Meinke J H 285215
- Hanson C J: *see* Krasnikov S A 446005
- Hansteen F: *see* Kimel A V 043201
- Hanzawa K: Hidden octupole order in URu<sub>2</sub>Si<sub>2</sub> 072202
- Hao A, Gao C, Li M, He C, Huang X, Zhang D, Yu C, Liu H, Ma Y, Tian Y and Zou G: A study of the electrical properties of HgS under high pressure 425222
- Hao A: *see* Yu C 425215
- Hao A: *see* Zhang D 425216
- Hao A M: *see* He C 425223
- Hao A M: *see* Li M 425210
- Hao X, Wu Z, Xu Y, Zhou D, Liu X and Meng J: Trends in elasticity and electronic structure of 5d transition metal diborides: first-principles calculations 196212
- Haque I and Singh M R: A study of the ac Stark effect in doped photonic crystals 156229
- Hara T: *see* Nagao M 492201
- Hara T: *see* Yu X Z 172203
- Harada A, Shimojo F and Hoshino K: Hydrogen desorption from nanostructured graphite: *ab initio* molecular-dynamics studies 365209
- Harada A: *see* Kowaki Y 436224
- Haratizadeh H: *see* Esmaeili M 356218
- Haravifard S, Rule K C, Dabkowska H A, Gaulin B D, Yamani Z and Buyers W J L: Neutron and x-ray scattering studies of the lightly doped spin-Peierls system Cu<sub>1-x</sub>Cd<sub>x</sub>GeO<sub>3</sub> 436222
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- Hwang J, Timusk T and Gu G D: Doping dependent optical properties of  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$  [125208](#)
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- Ikeno R, Nakamura H and Kohara T: Cluster-spin dynamics in a  $\text{GaMo}_4\text{S}_8$ -type compound:  $^{27}\text{Al}$  nuclear magnetic resonance study of  $\text{AlMo}_4\text{S}_8$  [046206](#)
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- Illarramendi M A, Aramburu I, Fernández J, Balda R and Al-Saleh M: Transport mean free path in  $\text{K}_5\text{Bi}_{1-x}\text{Nd}_x(\text{MoO}_4)_4$  laser crystal powders [036206](#)
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- Kim B H, Kim J S, Park T H, Lee D S, Kim K H, Kim B G and Park Y W: Evidence of the  $\text{Bi}^{3+}$  lone-pair effect on the charge-ordering state: resistivity and thermoelectric power of  $\text{Bi}_{0.5-y}\text{La}_y\text{Sr}_{0.5}\text{MnO}_3$  ( $0.0 \leq y \leq 0.4$ ) [296205](#)
- Kim B H, Kim J S, Park T H, Park S J, Kim K H, Kim B G and Park Y W: The universal relation between thermopower and magnetic susceptibility for a charge ordered manganite:  $\text{Bi}_{1-x}\text{Sr}_x\text{MnO}_3$  ( $0.5 \leq x \leq 0.8$ ) [476203](#)
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- Kim C H and Yu J: A spin-dependent local moment approach to the Anderson impurity

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- Kim G, Lee S B, Lee H and Ihm J: Electron orbital valves made of multiply connected armchair carbon nanotubes with mirror-reflection symmetry: tight-binding study [026217](#)
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- Kim H-J: *see* Park M-S [242201](#)
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- Kim J, Jung S H, Noh J H, Cho B K and Choi E J: Ferromagnetism and infrared conductivity of the homogeneous hexaboride alloy  $\text{Eu}_{1-x}\text{Ca}_x\text{B}_6$  [106203](#)
- Kim J, You H, Ducharme S and Adenwalla S: The effect of interlayer interactions on the ferroelectric–paraelectric phase transition in multilayered thin films of vinylidene fluoride–trifluoroethylene copolymers [086206](#)
- Kim J S: *see* Kim B H [296205](#)
- Kim J S: *see* Kim B H [476203](#)
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- Kim J-H, Huh D, Lee J, Lee S, Sung J, Seki K and Tachiya M: Subdiffusion-assisted reaction kinetics in disordered media [065116](#)
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- Kim K H: *see* Kim B H [296205](#)
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- Kim T H, Lee G W, Gangopadhyay A K, Hyers R W, Rogers J R, Goldman A I and Kelton K F: Structural studies of a Ti–Zr–Ni quasicrystal-forming liquid [455212](#)
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- Kim W T: *see* Kim Y C [196104](#)
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- Kimel A V, Kirilyuk A, Hansteen F, Pisarev R V and Rasing T: Nonthermal optical control of magnetism and ultrafast laser-induced spin dynamics in solids [043201](#)
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- Kisoda K: *see* Hasuike N [365223](#)
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- Kitagawa J, Kadoya Y, Tsubota M, Iga F and Takabatake T: Terahertz conductivity of localized photoinduced carriers in a Mott insulator  $\text{YTiO}_3$  at low excitation density, contrasted with the metallic nature in a band semiconductor Si [406224](#)
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- Kitaoka Y, Kawasaki S, Kawasaki Y, Mito T and Zheng G-q: Novel superconductivity at the magnetic critical point in heavy-fermion systems: a systematic study of NQR under pressure [125202](#)
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- Kitazumi Y and Kakiuchi T: Emergence of the electrochemical instability in transfer of decylammonium ion across the 1,2-dichloroethane|water interface formed at the tip of a micropipette [375104](#)
- Kito H: *see* Nagai I [136214](#)
- Kityk I V, Ebothe J, Tkaczyk S, Miedzinski R, Nzoghe-Mendome L, He J, Sun X, Sun K, Liu Q, Sun Z, Lin J and Fang J: Photoinduced electrooptics in the  $\text{In}_2\text{O}_3$  nanocrystals

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- Knyazev Yu V, Kuz'min Yu I, Kuchin A G, Lukoyanov A V and Nekrasov I A:  $\text{Sm}_2\text{Fe}_{17}$  and  $\text{Tm}_2\text{Fe}_{17}$ : electronic structure, magnetic and optical properties [116215](#)
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- Kobiela T: *see* Polak B [285216](#)
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- Koči L, Ahuja R, Belonoshko A B and Johansson B: Study of the high-pressure helium phase diagram using molecular dynamics [016206](#)
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- Kohara S, Ito M, Suzuya K, Inamura Y, Sakurai Y, Ohishi Y and Takata M: Structural studies of disordered materials using high-energy x-ray diffraction from ambient to extreme conditions [506101](#)
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- Köhler U, Pikul A P, Oeschler N, Westerkamp T, Strydom A M and Steglich F: Low-temperature study of the strongly correlated compound  $\text{Ce}_3\text{Rh}_4\text{Sn}_{13}$  [386207](#)
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- Komine S and Iguchi E: Correlation between magnetic properties and electronic transport in  $\text{LaCr}_{0.5}\text{Ga}_{0.5}\text{O}_3$  below room

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- Konkoli Z: Diffusion-controlled reactions in small and structured spaces as a tool for describing living cell biochemistry [065149](#)
- Kontturi K: *see* Johans C [375102](#)
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- Kool T W, Lenjer S and Schirmer O F: Jahn–Teller and off-center defects in BaTiO<sub>3</sub>: Ni<sup>+</sup>, Rh<sup>2+</sup>, Pt<sup>3+</sup> and Fe<sup>5+</sup> as studied by EPR under uniaxial stress [496214](#)
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- Korshunov M M, Gavrichkov V A, Ovchinnikov S G, Nekrasov I A, Kokorina E E and Pchelkina Z V: Dominance of many-body effects over the one-electron mechanism for band structure doping dependence in Nd<sub>2-x</sub>Ce<sub>x</sub>CuO<sub>4</sub>: the LDA+GTB approach [486203](#)
- Kosaka M: *see* Nagai I [136214](#)
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- Kosturek B, Waškowska A, Dacko S and Czaplá Z: Structure and phase transition in pyridazine perchlorate [086219](#)
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- Kotani T, van Schilfgaarde M, Faleev S V and Chantis A: Quasiparticle self-consistent GW method: a short summary [365236](#)
- Koteeswara Reddy N: *see* Devika M [306003](#)
- Kothari D, Raghavendra Reddy V, Gupta A, Phase D M, Lakshmi N, Deshpande S K and Awasthi A M: Study of the effect of Mn doping on the BiFeO<sub>3</sub> system [136202](#)
- Kothari D C: *see* Bajaj K [046208](#)
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- Kozlenko D P, Kichanov S E, Lee S, Park J-G and Savenko B N: Pressure-induced spin fluctuations and spin reorientation in hexagonal manganites [156228](#)
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- Krasnikov A, Laguta V, Nikl M and Zazubovich S: Localized excitons and their decay into electron and hole centres in PbWO<sub>4</sub> single crystals grown by the Bridgman method [306202](#)
- Krasnikov S A, Hanson C J, Brougham D F and Cafolla A A: Dimer ordering of CuTtertBuPc molecules on the Ag/Si(111)-(√3 × √3)R30°

- surface: a scanning tunnelling microscopy/spectroscopy study [446005](#)
- Krauss G, Gu Q F, Katrych S and Steurer W: *In situ* study of icosahedral Zn–Mg–Dy and Co-rich decagonal Al–Co–Ni at high pressures and high temperatures [116203](#)
- Krawiec M: Compensation of the Kondo effect in quantum dots coupled to ferromagnetic leads within the equation of motion approach [346234](#)
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- Krishnamurthy A: *see* Kumar S [196217](#)
- Krishnan R S, Mackay M E, Duxbury P M, Hawker C J, Asokan S, Wong M S, Goyette R and Thiyagarajan P: Improved polymer thin-film wetting behavior through nanoparticle segregation to interfaces [356003](#)
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- Krzysko K A, Kolinski M and Filipek S: Molecular modelling of the complex of oligomeric rhodopsin and its G protein [285204](#)
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- Ksenofontov V A, Mazilova T I, Mikhailovskij I M, Sadanov E V, Velicodnaja O A and Mazilov A A: High-field formation and field ion microscopy of monatomic carbon chains [466204](#)
- Kubel F: *see* Hagemann H [036214](#)
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- Kuběna J, Kuběna A, Caha O and Mikulík P: Development of oxide precipitates in silicon: calculation of the distribution function of the classical theory of nucleation by a nodal-points approximation [496202](#)
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- Kuleyev I G, Kuleyev I I and Arapova I Yu: Quasi-transverse ultrasound absorption due to point defects and anharmonic scattering processes in cubic crystals with positive and negative anisotropies of the second-order elastic moduli [406216](#)
- Kuleyev I I: *see* Kuleyev I G [406216](#)
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- Kumar K U M, Brahma R, Krishna M G, Bhatnagar A K and Dalba G: An optical study of Ni induced crystallization of a-Si thin films [496208](#)
- Kumar M and Yadav K L: Study of dielectric, magnetic, ferroelectric and magnetoelectric properties in the  $\text{PbMn}_x\text{Ti}_{1-x}\text{O}_3$  system at room temperature [242202](#)
- Kumar P, Singh N K, Suresh K G, Nigam A K and Malik S K: Multiple magnetic transitions and the magnetocaloric effect in  $\text{Gd}_{1-x}\text{Sm}_x\text{Mn}_2\text{Ge}_2$  compounds [386210](#)
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- Kumar R: *see* Kumar S [476210](#)
- Kumar R: *see* Rao A [056208](#)
- Kumar R: *see* Sharma V K [496207](#)
- Kumar S, Alimuddin, Kumar R, Thakur P, Chae K H, Angadi B and Choi W K: Electrical transport, magnetic, and electronic structure studies of  $\text{Mg}_{0.95}\text{Mn}_{0.05}\text{Fe}_{2-2x}\text{Ti}_{2x}\text{O}_{4\pm\delta}$  ( $0 \leq x \leq 0.5$ ) ferrites [476210](#)
- Kumar S, Kim G-H, Sreenivas K and Tandon R P: Mechanism of ultraviolet photoconductivity in zinc oxide nanoneedles [472202](#)
- Kumar S, Krishnamurthy A, Srivastava B K and Paranjpe S K: Structural and magnetic properties of  $(\text{Fe}_{0.93}\text{Ni}_{0.07})_2\text{P}$  [196217](#)
- Kumar S K: *see* Peng X-H [266212](#)
- Kumari L, Lin J-H and Ma Y-R: One-dimensional  $\text{Bi}_2\text{O}_3$  nanohooks: synthesis, characterization and optical properties [406204](#)
- Kumru M: *see* Caliskan S [076205](#)
- Kumzerov Yu A: *see* Tien C [106217](#)
- Kuncser V, Schinteie G, Sahoo B, Keune W, Bica D, Vekas L and Filoti G: Magnetic interactions in water based ferrofluids studied by Mössbauer spectroscopy [016205](#)
- Kunikata S: *see* David M [365210](#)
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- Kuo C N: *see* Kuo Y K 216210  
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Kuo Y K, Sivakumar K M, Tasi J I, Lue C S, Huang J W, Wang S Y, Varshney D, Kaurav N and Singh R K: The effect of Al/Si ratio on the transport properties of the layered intermetallic compound CaAl<sub>2</sub>Si<sub>2</sub> 176206  
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- Longeaud C, Belgacem H and Douay C: Density of states in  $\text{Bi}_{12}\text{TiO}_{20}$  from time-of-flight measurements [476202](#)
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- López C, Ramos F and Hernández-García E: An absorbing phase transition from a structured active particle phase [065133](#)
- López-Echarri A, Ruiz-Larrea I, Fraile-Rodríguez A, Díaz-Hernández J, Breczewski T and Bocanegra E H: Phase transitions in the urea/*n*-nonadecane system by calorimetric techniques [186221](#)
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- Malkova N and Ning C Z: Tamm surface states in a finite chain of defects in a photonic crystal [056004](#)
- Mallick K, Witcomb M J and Scurrell M S: Directional assembly of polyaniline functionalized gold nanoparticles [196225](#)
- Malloggi F, Vanapalli S A, Gu H, van den Ende D and Mugele F: Electrowetting-controlled droplet generation in a microfluidic flow-focusing device [462101](#)
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- Manikandan N and Asokan S: Observation of a thermally reversing window in bulk  $\text{Ge}_{15}\text{Te}_{85-x}\text{In}_x$  glasses [376104](#)
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- Manini N, Cesaratto M, Santoro G E, Tosatti E and Vanossi A: Solitons and exact velocity quantization of incommensurate sliders [305016](#)
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- Manoun B, Amini S, Gupta S, Saxena S K and Barsoum M W: On the compression behavior of  $\text{Cr}_2\text{GeC}$  and  $\text{V}_2\text{GeC}$  up to quasi-hydrostatic pressures of 50 GPa [456218](#)
- Manoun B, Zhang F, Saxena S K, Gupta S and Barsoum M W: On the compression behaviour of  $(\text{Ti}_{0.5}\text{V}_{0.5})_2\text{AlC}$  and  $(\text{Ti}_{0.5}\text{Nb}_{0.5})_2\text{AlC}$  to quasi-hydrostatic pressures above 50 GPa [246215](#)
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- Mantilla J, Ter Haar E, Coaquira J A H and Bindilatti V: Dynamic susceptibility measurements at the spin-glass transition in the  $\text{Zn}_{1-x}\text{Mn}_x\text{In}_2\text{Se}_4$  semiconductor [386225](#)
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- Maraşlı N, Akbulut S, Ocak Y, Keşlioğlu K, Büyük U, Kaya H and Çadirli E: Measurement of solid-liquid interfacial energy in the In-Bi eutectic alloy at low melting temperature [506102](#)
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- Marienfeld A, Cinchetti M, Bauer M, Aeschlimann M, Zhukov V P, Chulkov E V and Echenique P M: Experimental time-resolved photoemission and *ab initio* GW+ $T$  study of lifetimes of excited electrons in ytterbium [496213](#)
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- Markovich V, Fita I, Mogilyansky D, Wisniewski A, Puzniak R, Titelman L, Vradman L, Herskowitz M and Gorodetsky G: Magnetic properties of nanocrystalline  $\text{La}_{1-x}\text{MnO}_{3+\delta}$  manganites: size effects [346210](#)
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- Martínez-Casado R, Vega J L, Sanz A S and Miret-Artés S: Quasi-elastic peak lineshapes in adsorbate diffusion on nearly flat surfaces at low coverages: the motional narrowing effect in Xe on Pt(111) [176006](#)
- Martínez-Casado R, Vega J L, Sanz A S and Miret-Artés S: Quasielastic He atom scattering from surfaces: a stochastic description of the dynamics of interacting adsorbates [305002](#)
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- Mason D R, le Page J, Race C P, Foulkes W M C, Finnis M W and Sutton A P: Electronic damping of atomic dynamics in irradiation damage of metals [436209](#)
- Massobrio C and Pasquarello A: Structural properties of amorphous GeSe<sub>2</sub> [415111](#)
- Mastelaro V R, Neves P P, Michalowicz A and Eiras J A: Electronic structure of  $\text{Pb}_{1-x}\text{Ba}_x\text{Zr}_{0.65}\text{Ti}_{0.35}\text{O}_3$  ferroelectric compounds probed by soft x-ray absorption spectroscopy [226212](#)
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- Matsuhira K, Sato H, Tayama T, Hiroi Z, Takagi S and Sakakibara T: Observation of a novel phase transition induced by a magnetic field in the pyrochlore spin ice compound [145269](#)
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- Matsushita K, Sugano R, Kuroda A, Tomita Y and Takayama H: Spin melting and refreezing driven by uniaxial compression on a dipolar hexagonal plate [145206](#)
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- Mattarelli M: *see* Caponi S [205149](#)
- Mattern N, Zhang W X, Roth S, Reuther H, Baetz C and Richter M: Structural and magnetic properties of non-stoichiometric Fe<sub>2</sub>Zr [376202](#)
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- Mattila A, Pylkkänen T, Rueff J-P, Huotari S, Vankó G, Hanfland M, Lehtinen M and Hämäläinen K: Pressure induced magnetic transition in siderite FeCO<sub>3</sub> studied by x-ray emission spectroscopy [386206](#)
- Matveev V V, Ylänen E, Zakhvalinskii V S and Laiho R: <sup>139</sup>La NMR detection of ferromagnetic clusters far above the Curie temperature in La<sub>0.7</sub>Ca<sub>0.3</sub>Fe<sub>0.09</sub>Mn<sub>0.91</sub>O<sub>3</sub> spin-glass manganite [226209](#)
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- Melnychenko-Koblyuk N, Grytsiv A, Berger S, Kaldarar H, Michor H, Röhrbacher F, Royanian E, Bauer E, Rogl P, Schmid H and Giester G: Ternary clathrates Ba–Cd–Ge: phase equilibria, crystal chemistry and physical properties [046203](#)
- Melnychenko-Koblyuk N, Grytsiv A, Fornasari L, Kaldarar H, Michor H, Röhrbacher F, Koza M, Royanian E, Bauer E, Rogl P, Rotter M, Schmid H, Marabelli F, Devishvili A, Doerr M and Giester G: Ternary clathrates Ba–Zn–Ge: phase equilibria, crystal chemistry and physical properties [216223](#)
- Melo F C L: *see* Goel A [386231](#)
- Mendels P, Olariu A, Bert F, Bono D, Limot L, Collin G, Ueland B, Schiffer P, Cava R J, Blanchard N, Duc F and Trombe J C: Spin dynamics in frustrated magnets: from edge- to corner-sharing geometries [145224](#)
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- Mücksch M, Koza M M, Mutka H, Ritter C, Cervellino A, Podlesnyak A, Sheptyakov D, Tsurkan V, Krimmel A, Horn S and Loidl A: Multi-step magnetic ordering in frustrated thiospinel MnSc<sub>2</sub>S<sub>4</sub> [145262](#)
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- Oda T, Sugimori K, Nagao H, Hamada I, Kagayama S, Geshi M, Nagara H, Kusakabe K and Suzuki N: Oxygen at high pressures: a theoretical approach to monoatomic phases [365211](#)
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- Ohno S, Takizawa J, Koizumi J, Mitobe F, Tamegai R, Suzuki T, Shudo K and Tanaka M: Real-time observation of electron-stimulated effects on  $\text{Si}(001)-(2 \times 1)$  by optical reflectance spectroscopic methods [446008](#)
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- Ono S, Ohishi Y and Kikegawa T: High-pressure  
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- Ōnuki Y, Settai R, Sugiyama K, Inada Y,  
Takeuchi T, Haga Y, Yamamoto E, Harima H  
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- Oyamada A, Kondo M, Fukuoka K, Itou T, Maegawa S, Li D X and Haga Y: NMR studies of the partially disordered state in a triangular antiferromagnet UNi<sub>4</sub>B [145246](#)
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- Ozawa N, Arboleda Jr N B, Roman T A, Nakanishi H, Diño W A and Kasai H: Quantum states of hydrogen atom motion on the Pd(111) surface and in the subsurface [365214](#)
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- Paduani C, Pöttker W E, Ardisson J D, Schaf J, Takeuchi A Y, Yoshida M I, Soriano S and Kalisz M: Mössbauer effect and magnetization studies of the Fe<sub>2+x</sub>Cr<sub>1-x</sub>Al system in the L 2<sub>1</sub> (X<sub>2</sub>YZ) structure [156204](#)
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- Pagliuso P G: *see* Gaur S K [326201](#)
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- Pajzderska A, Fojud Z, Goc R and Wąsicki J: Cation dynamics in pyridinium nitrate and bis-thiourea pyridinium nitrate inclusion compound studied by <sup>2</sup>H NMR spectroscopy [156220](#)
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- Palstra T T M: *see* Nénert G [466212](#)
- Paluch M, Grzybowska K and Grzybowski A: Effect of high pressure on the relaxation dynamics of glass-forming liquids [205117](#)
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- Pamuk H: *see* Saatçi B [326219](#)
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- Pan C-J, Lin K-F, Hsu W-T and Hsieh W-F: Raman study of alloy potential fluctuations in Mg<sub>x</sub>Zn<sub>1-x</sub>O nanopowders [186201](#)
- Pan F, Guan X, Ma N, Han W-J and Draayer J P: Exact diagonalization for spin-1/2 chains and the first order quantum phase transitions of the XXX chain in a uniform transverse field [386208](#)
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Pini M G, Rettori A, Betti P, Jiang J S, Ji Y, te Velthuis S G E, Felcher G P and Bader S D: Surface spin-flop transition in a uniaxial antiferromagnetic Fe/Cr superlattice induced by a magnetic field of arbitrary direction [136001](#)  
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 Wasutyński T and Sieklucka B: A  $\mu\text{SR}$  study  
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 Evidence through Mössbauer spectroscopy of  
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 Priestley R D, Rittigstein P, Broadbelt L J,  
 Fukao K and Torkelson J M: Evidence for the  
 molecular-scale origin of the suppression of  
 physical ageing in confined polymer:  
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- Shenton-Taylor C, Duffy J A, Taylor J W, Steer C A, Timms D N, Cooper M J and Blaauw L V: Magnetic Compton scattering study of the magnetocaloric material Gd<sub>7</sub>Pd<sub>3</sub> [186208](#)
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- Shi H, Eglitis R I and Borstel G: *Ab initio* calculations of the hydrogen centres in CaF<sub>2</sub> and BaF<sub>2</sub> [056007](#)
- Shi J: *see* Wang J [196224](#)
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- Shi L, Jiang X and Li C: Effects induced by Mie resonance in two-dimensional photonic crystals [176214](#)
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- Shimizu Y, Akimoto H, Tsujii H, Tajima A and Kato R: Reentrant Mott transition from a Fermi liquid to a spin-gapped insulator in an organic spin-1/2 triangular-lattice antiferromagnet [145240](#)
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- Shinyashiki N, Sudo S, Yagihara S, Spanoudaki A, Kyritsis A and Pissis P: Relaxation processes of water in the liquid to glassy states of water mixtures studied by broadband dielectric spectroscopy [205113](#)
- Shipilevsky B M: Formation of a finite-time singularity in diffusion-controlled annihilation dynamics [065106](#)
- Shirai K, Yamaguchi H and Katayama-Yoshida H: Control of impurity diffusion in silicon by IR laser excitation [365207](#)
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- Sholl C A: Nuclear spin relaxation and diffusion of hydrogen in the A15 compound Nb<sub>3</sub>AlH<sub>x</sub> [406228](#)
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- Shu H B, Zhou G C, Zhong X L, Sun L Z, Wang J B, Chen X S and Zhou Y C: Effects of lattice strain and ion displacement on the bonding mechanism of the ferroelectric perovskite material BaTiO<sub>3</sub>: first-principles study [276213](#)
- Shudo K, Koike Y, Owa Y, Koma M, Ohno S and Tanaka M: Regular arrangement of nanometre-scale clusters by surface strain on stabilized Cl/Si(111) [096010](#)
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- Shvachko Yu N, Starichenko D V, Korolyov A V, Kushch N D and Yagubskii E B: Inhomogeneous electronic states in organic metal (BEDO-TTF)<sub>2</sub>ReO<sub>4</sub>·H<sub>2</sub>O: EPR and SQUID study [406210](#)
- Sib J D: *see* Bouizem Y [356215](#)
- Sibuet H: *see* Prejbeanu I L [165218](#)
- Sichelschmidt J, Wykhoff J, Krug von Nidda H-A, Fazlshanov I I, Hossain Z, Krellner C, Geibel C and Steglich F: Electron spin resonance of YbIr<sub>2</sub>Si<sub>2</sub> below the Kondo temperature [016211](#)
- Sichelschmidt J, Wykhoff J, Krug von Nidda H-A, Ferstl J, Geibel C and Steglich F: Spin dynamics of YbRh<sub>2</sub>Si<sub>2</sub> observed by electron spin resonance [116204](#)
- Siclen C DW V: Stochastic method for accommodation of equilibrating basins in kinetic Monte Carlo simulations [072201](#)
- Sieberttritt S, Eisenbarth T, Rockett A, Albert J, Schubert-Bischoff P and Lux-Steiner M C: Epitaxially grown single grain boundaries in chalcopyrites [016004](#)
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- Sienkiewicz A, Vileno B, Pierzchała K, Czuba M, Marcoux P, Graczyk A, Fajer P G and Forró L: Oxidative stress-mediated protein conformation changes: ESR study of spin-labelled staphylococcal nuclease [285201](#)

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- Stavrou V N: Suppression of electron relaxation and dephasing rates in quantum dots caused by external magnetic fields 186224
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- Stepinski J, Wojcik J, Sienkiewicz A and Niedzwiecka A: Synthesis and NMR spectral properties of spin-labelled mRNA 5' cap analogue: a new tool for biochemical studies of cap binding proteins 285202
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- Stryganyuk G, Zazubovich S, Voloshinovskii A, Pidzyrailo M, Zimmerer G, Peters R and Petermann K: Charge transfer luminescence of  $\text{Yb}^{3+}$  ions in  $\text{LiY}_{1-x}\text{Yb}_x\text{P}_4\text{O}_{12}$  phosphates 036202
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- Sudakar C, Kharel P, Lawes G, Suryanarayanan R, Naik R and Naik V M: Raman spectroscopic studies of oxygen defects in Co-doped ZnO films exhibiting room-temperature ferromagnetism 026212
- Sudarshan K, Dutta D, Sharma S K, Goswami A and Pujari P K: Air quenching of positronium in mesoporous materials: positron porosimetry 386204
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- Suemoto T, Nagase H, Nakajima M, Isobe M and Ueda Y: Thermal and non-thermal photoinduced phenomena in  $\alpha'$ - $\text{NaV}_2\text{O}_5$  076207
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- Sugak D, Zhydachevskii Ya, Sugak Yu, Buryy O, Ubizskii S, Solskii I, Schrader M and Becker K-D: *In situ* investigation of optical absorption changes in  $\text{LiNbO}_3$  during reducing/oxidizing high-temperature treatments 086211

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- Vogel J, Cherifi S, Pizzini S, Romanens F, Camarero J, Petroff F, Heun S and Locatelli A: Layer-resolved imaging of domain wall interactions in magnetic tunnel junction-like trilayers 476204
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- Volkova L M: Search of low-dimensional magnetism on the basis of structural data: spin-1/2 antiferromagnetic zigzag chain compounds  $\text{In}_2\text{VO}_5$ ,  $\beta$ - $\text{Sr}(\text{VOAsO}_4)_2$ ,  $(\text{NH}_4)_2\text{VOF}_4$  and  $\alpha$ - $\text{ZnV}_3\text{O}_8$  176208
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Wang J, Zou H, Guo C, Wang L, Hu N and Shi J: Microscopic evidence of dimer breaking up in  $\text{CuO}_2$  chain for Ca-substituted  $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$  compounds 196224  
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Wang X L, He Z, Ma Y M, Cui T, Liu Z M, Liu B B, Li J F and Zou G T: Prediction of a new layered phase of nitrogen from first-principles simulations 425226  
Wang X L, Zhao D G, Jiang D S, Yang H, Liang J W, Jahn U and Ploog K: Al compositional inhomogeneity of AlGaIn epilayer with a high Al composition grown by metal-organic chemical vapour deposition 176005  
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- Yamabe Y, Ono T, Suto T and Tanaka H:  $S = 1/2$  Kagomé antiferromagnets  $\text{Cs}_2\text{Cu}_3\text{MF}_{12}$  with  $M = \text{Zr}$  and  $\text{Hf}$  [145253](#)
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- Yang H-B, Wang Z and Ding H: Angle-resolved photoemission spectroscopy study on the Fermi surface topology of  $\text{Na}_x\text{CoO}_2$  [355004](#)
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- Yang K, Cui Q, Hou Y, Liu B, Zhou Q, Hu J, Mao H-K and Zou G: Pressure-induced crystallization and phase transformation of amorphous selenium: Raman spectroscopy and x-ray diffraction studies [425220](#)
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- Yasuda Y, Nakamura H, Fujii Y, Kikuchi H, Chiba M, Yamamoto Y, Hori H, Petrakovskii G, Popov M and Bezmaternikh L:  $^{11}\text{B}$ -NMR study of low-temperature phase transition in  $\text{CuB}_2\text{O}_4$  [145277](#)
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- Yavors'kii T, Gingras M J P and Enjalran M: Ill-behaved convergence of a model of the  $\text{Gd}_3\text{Ga}_5\text{O}_{12}$  garnet antiferromagnet with truncated magnetic dipole–dipole interactions [145274](#)
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- Yoon S D, Harris V G, Vittoria C and Widom A: Electronic transport in oxygen deficient ferromagnetic semiconducting  $\text{TiO}_{2-\delta}$  [326202](#)
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- Yoshida H, Muraoka Y and Hiroi Z: Impurity effects on the  $\text{Ni}^{3+}$  triangular lattice of  $\text{Ag}_2\text{NiO}_2$  [145235](#)
- Yoshida M: *see* Takano S [145266](#)
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- Yoshida T, Zhou X J, Lu D H, Komiyama S, Ando Y, Eisaki H, Kakeshita T, Uchida S, Hussain Z, Shen Z-X and Fujimori A: Low-energy electronic structure of the high- $T_c$  cuprates  $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$  studied by angle-resolved photoemission spectroscopy [125209](#)
- Yoshida Y: *see* Nagai I [136214](#)
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- Yoshino H and Rizzo T: Step-wise magnetic responses in mesoscopic spin-glasses [145223](#)
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- Yoshioka S, Hayashi H, Kuwabara A, Oba F, Matsunaga K and Tanaka I: Structures and energetics of  $\text{Ga}_2\text{O}_3$  polymorphs [346211](#)
- Yoshita M, Liu S M, Okano M, Hayamizu Y, Akiyama H, Pfeiffer L N and West K W: T-shaped GaAs quantum-wire lasers and the exciton Mott transition [295217](#)
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- Young D P: *see* Cho J Y [266224](#)
- Yu A-b: *see* Liu R-s [196103](#)
- Yu C, Yu Q, Gao C, Liu B, Hao A, He C, Huang X, Zhang D, Cui X, Li D, Liu H, Ma Y and Zou G: Structural and electrical properties of  $\text{PbMoO}_4$  under high pressure [425215](#)
- Yu C: *see* Hao A [425222](#)
- Yu C: *see* Zhang D [425216](#)
- Yu C-J and Emmerich H: An efficient virtual crystal approximation that can be used to treat heterovalent atoms, applied to  $(1-x)\text{BiScO}_3-x\text{PbTiO}_3$  [306203](#)
- Yu C L: *see* He C [425223](#)
- Yu G, Jia Y and Dong J: Exciton effect in deformed carbon nanotubes [266222](#)
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- Yu S D, Chang L X, Yang H B, Liu B B, Hou Y Y, Wang L, Yao M G, Cui T and Zou G T: Study of the hydrostatic pressure dependence of the Raman spectrum of W/WS<sub>2</sub> fullerene-like nanosphere with core–shell structure [425228](#)
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- Yu W, Jin C and Kohlmeyer A: First principles calculation of phonon dispersion, thermodynamic properties and  $B$  1-to- $B$  2 phase transition of lighter alkali hydrides [086209](#)
- Yu X Z, Arima T, Kaneko Y, He J P, Mathieu R, Asaka T, Hara T, Kimoto K, Matsui Y and Tokura Y: Direct observation of the bandwidth-disorder induced variation of charge/orbital ordering structure in

- RE<sub>0.5</sub>(Ca<sub>1-y</sub>Sr<sub>y</sub>)<sub>1.5</sub>MnO<sub>4</sub> 172203
- Yu Y: Dynamics of edge Majorana fermions in  $\nu = \frac{5}{2}$  fractional quantum Hall effects 466213
- Yu Y, Gao F and Xiong G: Spin-orbit splitting-dependent quadratic electro-optic effect in InGaN/GaN quantum wells 236234
- Yu Z X, Van Hove M A, Tong S Y, Wisbey D, Losovyj Y B, Wu N, Manno M, Wang L, Leighton C, Mei W N and Dowben P A: The structure of the CoS<sub>2</sub> (100)-(1 × 1) surface 156223
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- Yuan H T, Zeng Z Q, Mei Z X, Du X L, Jia J F and Xue Q K: Surfactant effects of lithium dopant during molecular beam epitaxy of ZnO films 482001
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- Yuan S, Kong Y, Wen F and Li F: Structural and magnetic properties of Fe<sub>4</sub> clusters confined in carbon nanotubes 466203
- Yue L P: *see* Zhang J 256204
- Yuhasz W M, Ho P-C, Sayles T A, Yanagisawa T, Frederick N A, Maple M B, Rogl P and Giester G: Crystalline electric field effects in the filled skutterudite compound PrOs<sub>4</sub>P<sub>12</sub> 076212
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- Zach R, Tobola J, Średniawa B, Kaprzyk S, Guillot M, Fruchart D and Wolfers P: Magnetic interactions in the MnFe<sub>1-x</sub>Co<sub>x</sub>P series of solid solutions 376201
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- Zanolli Z, Pistol M-E, Fröberg L E and Samuelson L: Quantum-confinement effects in InAs–InP core–shell nanowires 295219
- Zanolli Z, Wacaser B A, Pistol M-E, Deppert K and Samuelson L: Core–shell InP–CdS nanowires: fabrication and study 295218
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- Zeng Z Q: *see* Yuan H T 482001
- Zeng Z Y: *see* Xu Y 056010
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- Zentková M, Arnold Z, Kamarád J, Kavečanský V, Lukáčová M, Mat’áš S, Mihalik M, Mitróová Z and Zentko A: Effect of pressure on the magnetic properties of TM<sub>3</sub>[Cr(CN)<sub>6</sub>]<sub>2</sub>·12H<sub>2</sub>O 266217
- Zerda T W: *see* Wang Y 356205
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- Zha C-S: *see* Sun L 425206
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- Zhang D, Gao C, Ma Y, He C, Huang X, Hao A, Yu C, Li Y, Liu J, Peng G, Li D, Liu H and Zou G: Electrical conductivity measurements of  $\beta$ -boron under high pressure and temperature 425216
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 Zhang V and Djafari-Rouhani B: A general model for analysis of acoustic phonons in piezoelectric super-lattices. Application to the (111)-AlAs/GaAs super-lattice [186209](#)  
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 Zhang W-H: *see* Wang X-X [096001](#)  
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 Zhang W-m, Okubo S, Ohta H, Saito T and Takano M: High-frequency ESR measurements of the Co spinel compound  $\text{SiCo}_2\text{O}_4$  [145264](#)  
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 Zhang X-Y, Chen Y, Li Z-Y, Vittoria C and Harris V G: Competition between ferromagnetism and antiferromagnetism: origin of large magnetoresistance in polycrystalline  $\text{SrRu}_{1-x}\text{Mn}_x\text{O}_3$  ( $0 \leq x \leq 1$ ) [266211](#)  
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- Zhang Z: *see* Ventura J 176207
- Zhang Z-Y: Spin transmission through a mesoscopic zigzag Rashba wire 016209
- Zhang Z-Y: Thermopower of double quantum dots: Fano effect and competition between Kondo and antiferromagnetic correlations 086214
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- Zhao H and Aluru N R: A semi-local quasi-harmonic model to compute the thermodynamic and mechanical properties of silicon nanostructures 226202
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- Zheng X G: *see* Hagihala M 145281
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- Zhong X L: *see* Shu H B 276213
- Zhou D: *see* Hao X 196212
- Zhou G: *see* Cheng F 136215
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- Zhou H D, Kiss A, Janik J A and Wiebe C R: Doping through the percolation limit in GeNi<sub>2-x</sub>Co<sub>x</sub>O<sub>4</sub> 156202
- Zhou H D, Wiebe C R, Jo Y J, Balicas L, Qiu Y, Copley J R D, Ehlers G, Fouquet P and Gardner J S: The origin of persistent spin dynamics and residual entropy in the stuffed spin ice Ho<sub>2.3</sub>Ti<sub>1.7</sub>O<sub>7-δ</sub> 342201
- Zhou H L, Chua S J, Chow S Y, Pan H, Zhu Y W, Feng Y P, Wang L S, Zang K Y, Liu W and Tripathy S: Characteristics of threading dislocations in ZnO grown on facet-controlled epitaxial overgrown GaN templates 356203
- Zhou H L, Chua S J, Tripathy S, Yakovlev N L, Wang L S and Liu W: AlGa<sub>N</sub>/Ga<sub>N</sub> multiple quantum wells grown on facet-controlled epitaxial lateral overgrown GaN/sapphire templates 056005
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- Zhukovskii Yu F, Pugno N, Popov A I, Balasubramanian C and Bellucci S: Influence of F centres on structural and electronic properties of AlN single-walled nanotubes 395021
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- Zlateva G, Atanassov A, Baleva M, Nikolova L and Abrashev M V: Polarized micro-Raman scattering characterization of Mg<sub>2</sub>Si nanolayers in (001) Si matrix [086220](#)
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- Zong H: *see* Zhang X [425231](#)
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- Zorko A, Arčon D, Dolinšek J, Jagličić Z, Jeromen A, van Tol H, Brunel L C and Berger H: Magnetism in the novel spin system Ni<sub>5</sub>(TeO<sub>3</sub>)<sub>4</sub>Br<sub>2</sub> with two-dimensional frustrated geometry [145278](#)
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- Zou G T: *see* Zhang L J [425237](#)
- Zou H: *see* Wang J [196224](#)
- Zou J D, Shen B G and Sun J R: Role of lattice contraction in the magnetocaloric effect in LaFe<sub>11.5</sub>Si<sub>1.5</sub> [196220](#)
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- Žutić I, Fabian J and Erwin S C: Bipolar spintronics: from spin injection to spin-controlled logic [165219](#)