

ERRATA

- Publisher's Note: Erratum: Semiempirical formulae for elastic moduli and brittleness of diamondlike and zinc-blende covalent crystals [Phys. Rev. B **77**, 094109 (2008)] [Phys. Rev. B **86**, 019902 (2012)] (*1 page*) 059901(E)
Sami Kamran, Kuiying Chen, and Liang Chen
- Erratum: Density functional theory study of phase IV of solid hydrogen [Phys. Rev. B **85**, 214114 (2012)] (*1 page*) 059902(E)
Chris J. Pickard, Miguel Martinez-Canales, and Richard J. Needs
- Erratum: Enhanced ferromagnetism from electron-electron interactions in double-exchange-type models [Phys. Rev. B **83**, 134405 (2011)] (*1 page*) 059903(E)
Nuri A. Yazdani and Malcolm P. Kennett
- Erratum: Chiral spin liquid in two-dimensional XY helimagnets [Phys. Rev. B **85**, 174404 (2012)] (*2 pages*) 059904(E)
A. O. Sorokin and A. V. Syromyatnikov
- Erratum: Al doping effect on magnetic phase transitions of magnetoelectric hexaferrite $\text{Ba}_{0.7}\text{Sr}_{1.3}\text{Zn}_2(\text{Fe}_{1-x}\text{Al}_x)_{12}\text{O}_{22}$ [Phys. Rev. B **85**, 064402 (2012)] (*1 page*) 059905(E)
Hun Chang, Hak Bong Lee, Young-Sang Song, Jae-Ho Chung, S. A. Kim, I. H. Oh, M. Reehuis, and J. Schefer
- Publisher's Note: Uniaxial magnetic anisotropy of cobalt films deposited on sputtered $\text{MgO}(001)$ substrates [Phys. Rev. B **86**, 064432 (2012)] (*1 page*) 059906(E)
Kai Chen, Robert Frömter, Stefan Rössler, Nikolai Mikuszeit, and Hans Peter Oepen

Signatures of orbital loop currents in the spatially resolved local density of states (5 pages)	054510
W. H. P. Nielsen, W. A. Atkinson, and B. M. Andersen	
Spherical agglomeration of superconducting and normal microparticles with and without applied electric field (8 pages)	054511
R. S. B. Ghosh and J. E. Hirsch	
☞ Mixed-valence-driven heavy-fermion behavior and superconductivity in KNi_2Se_2 (12 pages)	054512
James R. Neilson, Anna Llobet, Andreas V. Stier, Liang Wu, Jiajia Wen, Jing Tao, Yimei Zhu, Zlatko B. Tesanovic, N. P. Armitage, and Tyrel M. McQueen	
High-temperature superconductivity in layered nitrides $\beta\text{-Li}_x\text{MnCl}$ ($M = \text{Ti, Zr, Hf}$): Insights from density functional theory for superconductors (16 pages)	054513
Ryosuke Akashi, Kazuma Nakamura, Ryotaro Arita, and Masatoshi Imada	
☞ Statistics of radiation at Josephson parametric resonance (11 pages)	054514
Ciprian Padurariu, Fabian Hassler, and Yuli V. Nazarov	
Second-sound acoustic turbulence in superfluid helium: Decay of the direct and inverse energy cascades (7 pages)	054515
Victor B. Efimov, Andrei N. Ganshin, and Peter V. E. McClintock	
Quantum phases of hardcore bosons with long-range interactions on a square lattice (17 pages)	054516
Daisuke Yamamoto, Akiko Masaki, and Ippei Danshita	
High superconducting anisotropy and weak vortex pinning in Co-doped LaFeAsO (6 pages)	054517
G. Li, G. Grissonnanche, J.-Q. Yan, R. W. McCallum, T. A. Lograsso, H. D. Zhou, and L. Balicas	
$Q = 0$ collective modes originating from the low-lying Hg-O band in superconducting $\text{HgBa}_2\text{CuO}_{4+\delta}$ (5 pages)	054518
Tanmoy Das	
Spin-precession-assisted supercurrent in a superconducting quantum point contact coupled to a single-molecule magnet (8 pages)	054519
C. Holmqvist, W. Belzig, and M. Fogelström	
Ground-state phase diagram of the two-dimensional extended Bose-Hubbard model (9 pages)	054520
Takahiro Ohgoe, Takafumi Suzuki, and Naoki Kawashima	
Microscopic theory for a ferromagnetic nanowire/superconductor heterostructure: Transport, fluctuations, and topological superconductivity (14 pages)	054521
So Takei and Victor Galitski	
Curie-like paramagnetism due to incomplete Zhang-Rice singlet formation in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ (8 pages)	054522
C. V. Kaiser, W. Huang, S. Komiya, N. E. Hussey, T. Adachi, Y. Tanabe, Y. Koike, and J. E. Sonier	
Continuous critical temperature enhancement with gradual hydrogen doping in $\text{LaFeAsO}_{0.85}\text{H}_x$ ($x = 0\text{--}0.85$) (9 pages)	054523
Yanfeng Guo, Xia Wang, Jun Li, Ying Sun, Yoshihiro Tsujimoto, Alexei A. Belik, Yoshitaka Matsushita, Kazunari Yamaura, and Eiji Takayama-Muromachi	
Evidence of vortex jamming in Abrikosov vortex flux flow regime (4 pages)	054524
G. Karapetrov, V. Yefremenko, G. Mihajlović, J. E. Pearson, M. Iavarone, V. Novosad, and S. D. Bader	
Numerical model of crossed Andreev reflection and charge imbalance (9 pages)	054525
J. L. Webb, B. J. Hickey, and G. Burnell	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 86, NUMBER 5

AUGUST 2012-1(I)

Classical J_1 - J_2 Heisenberg model on the kagome lattice (8 pages)	054440
Martin Spenke and Siegfried Guertler	
Anisotropic ferromagnetism in carbon-doped zinc oxide from first-principles studies (7 pages)	054441
Sanjeev K. Nayak, Markus E. Gruner, Sung Sakong, Shreekantha Sil, Peter Kratzer, Surjyo N. Behera, and Peter Entel	
Efficiency of ultrafast laser-induced demagnetization in $\text{Gd}_x\text{Fe}_{100-x-y}\text{Co}_y$ alloys (7 pages)	054442
R. Medapalli, I. Razdolski, M. Savoini, A. R. Khorsand, A. Kirilyuk, A. V. Kimel, Th. Rasing, A. M. Kalashnikova, A. Tsukamoto, and A. Itoh	
Theoretical study of the temperature dependence of the magnon dispersion relation in transition-metal wires and monolayers (11 pages)	054443
W. Töws and G. M. Pastor	
Reversal and termination of current-induced domain wall motion via magnonic spin-transfer torque (5 pages)	054444
Jacob Linder	
Domain wall motion induced by the magnonic spin current (5 pages)	054445
Xi-guang Wang, Guang-hua Guo, Yao-zhuang Nie, Guang-fu Zhang, and Zhi-xiong Li	
Superfluidity and superconductivity	
Spectral and power properties of inline long Josephson junctions (4 pages)	054501
Leonid S. Revin and Andrey L. Pankratov	
Superconducting state in the metastable binary bismuthide $\text{Rh}_3\text{Bi}_{14}$ single crystals (5 pages)	054502
Xiao Zhang (张晓), Hechang Lei (雷和畅), and C. Petrovic	
Vacancy-induced nanoscale phase separation in $\text{K}_x\text{Fe}_{2-y}\text{Se}_2$ single crystals evidenced by Raman scattering and powder x-ray diffraction (5 pages)	054503
N. Lazarević, M. Abeykoon, P. W. Stephens, Hechang Lei (雷和畅), E. S. Bozin, C. Petrovic, and Z. V. Popović	
Weyl superconductors (10 pages)	054504
Tobias Meng and Leon Balents	
 Thermal metal-insulator transition in a helical topological superconductor (8 pages)	054505
I. C. Fulga, A. R. Akhmerov, J. Tworzydło, B. Béri, and C. W. J. Beenakker	
In-plane dissipation as a possible synchronization mechanism for terahertz radiation from intrinsic Josephson junctions of layered superconductors (7 pages)	054506
Shi-Zeng Lin and Xiao Hu	
Local modulations of the spin-fluctuation-mediated pairing interaction by impurities in d -wave superconductors (8 pages)	054507
A. T. Rømer, S. Graser, T. S. Nunner, P. J. Hirschfeld, and B. M. Andersen	
Spectral functions of the Higgs mode near two-dimensional quantum critical points (14 pages)	054508
Daniel Podolsky and Subir Sachdev	
Specific-heat discontinuity ΔC vs. T_c in annealed $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ (7 pages)	054509
J. S. Kim, B. D. Faeth, and G. R. Stewart	

(Continued)

Magnetic and electronic orderings in orthorhombic $RMnO_3$ ($R = \text{Tm, Lu}$) studied by resonant soft x-ray powder diffraction (5 pages)	054425
M. Garganourakis, Y. Bodenthin, R. A. de Souza, V. Scagnoli, A. Dönni, M. Tachibana, H. Kitazawa, E. Takayama-Muromachi, and U. Staub	
Magnetization dynamics of buckling domain structures in patterned thin films (8 pages)	054426
C. Patschureck, K. Lenz, M. O. Liedke, M. U. Lutz, T. Strache, I. Mönch, R. Schäfer, L. Schultz, and J. McCord	
Nonlinear dynamics in a magnetic Josephson junction (7 pages)	054427
Silas Hoffman, Ya. M. Blanter, and Yaroslav Tserkovnyak	
Evolution of the spin-state transition with doping in $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ (4 pages)	054428
R. X. Smith, M. J. R. Hoch, W. G. Moulton, P. L. Kuhns, A. P. Reyes, G. S. Boebinger, H. Zheng, and J. F. Mitchell	
Magnetoelectric properties in orthorhombic $\text{Nd}_{1-x}\text{Y}_x\text{MnO}_3$: Neutron diffraction experiments (5 pages)	054429
S. Landsgesell, K. Prokeš, B. Ouladdiaf, B. Klemke, O. Prokhnenko, B. Hepp, K. Kiefer, and D. N. Argyriou	
Magnetic dead layer at the interface between a Co film and the topological insulator Bi_2Se_3 (4 pages)	054430
J. Li, Z. Y. Wang, A. Tan, P.-A. Glans, E. Arenholz, C. Hwang, J. Shi, and Z. Q. Qiu	
Magnetic neutron scattering of thermally quenched K-Co-Fe Prussian blue analog photomagnet (8 pages)	054431
Daniel M. Pajerowski, V. Ovidiu Garlea, Elisabeth S. Knowles, Matthew J. Andrus, Matthieu F. Dumont, Yitzi M. Calm, Stephen E. Nagler, Xin Tong, Daniel R. Talham, and Mark W. Meisel	
Rotating skyrmion lattices by spin torques and field or temperature gradients (11 pages)	054432
Karin Everschor, Markus Garst, Benedikt Binz, Florian Jonietz, Sebastian Mühlbauer, Christian Pfeleiderer, and Achim Rosch	
Signature of an antiferromagnetic metallic ground state in heavily electron-doped $\text{Sr}_2\text{FeMoO}_6$ (6 pages)	054433
Somnath Jana, Carlo Meneghini, Prabuddha Sanyal, Soumyajit Sarkar, Tanusri Saha-Dasgupta, Olof Karis, and Sugata Ray	
First-principles study of the spin-gap system $\text{Sr}_2\text{Cu}(\text{BO}_3)_2$ (7 pages)	054434
Jayita Chakraborty and Indra Dasgupta	
Magnetic behavior of the $\text{Ni}_x\text{Fe}_{1-x}\text{Nb}_2\text{O}_6$ quasi-one-dimensional system: Isolation of Ising chains by frustration (9 pages)	054435
P. W. C. Sarvezuk, M. A. Gusmão, J. B. M. da Cunha, and O. Isnard	
Orbital fluctuations in spinel $\text{Mn}(\text{V}_{1-x}\text{Al}_x)_2\text{O}_4$ studied by thermal conductivity measurements (6 pages)	054436
T. Omura, T. Ishikawa, Y. Ishitsuka, and T. Katsufuji	
Magnetic dilution and steric effects in the multiferroic delafossite CuCrO_2 (10 pages)	054437
E. Pachoud, K. Singh, Y. Bréard, C. Martin, G. André, V. Hardy, Ch. Simon, and A. Maignan	
Ferromagnetism in $\text{UMn}_2\text{Al}_{20}$ studied with polarized neutron diffraction and bulk magnetic measurements (5 pages)	054438
Piotr Wiśniewski, Przemysław Swatek, Arsen Gukasov, and Dariusz Kaczorowski	
Asymptotic and intermediate long-time behavior of nuclear free induction decays in polycrystalline solids and powders (7 pages)	054439
B. V. Fine, T. A. Elsayed, E. G. Sorte, and B. Saam	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 86, NUMBER 5

AUGUST 2012-1(I)

☞	Low-temperature properties of two-dimensional ideal ferromagnets (<i>10 pages</i>)	054409
	Christoph P. Hofmann	
	Transverse Ising chain under periodic instantaneous quenches: Dynamical many-body freezing and emergence of slow solitary oscillations (<i>7 pages</i>)	054410
	Sirshendu Bhattacharyya, Arnab Das, and Subinay Dasgupta	
☞	Bionic Coulomb phase on the pyrochlore lattice (<i>10 pages</i>)	054411
	V. Khemani, R. Moessner, S. A. Parameswaran, and S. L. Sondhi	
	Magnetothermal properties of the Heisenberg-Ising orthogonal-dimer chain with triangular XXZ clusters (<i>17 pages</i>)	054412
	Vadim Ohanyan and Andreas Honecker	
	Gauge freedom for degenerate Bloch states (<i>4 pages</i>)	054413
	F. Pientka, M. Gradhand, D. V. Fedorov, I. Mertig, and B. L. Györfly	
	Direct observation of nonlinear four-magnon scattering in spin-wave microconduits (<i>4 pages</i>)	054414
	H. Schultheiss, K. Vogt, and B. Hillebrands	
	Spin-flop coupling and rearrangement of bulk antiferromagnetic spins in epitaxial exchange-biased Fe/MnPd/Fe/IrMn multilayers (<i>6 pages</i>)	054415
	Wei Zhang and Kannan M. Krishnan	
	Longitudinal magnetic fluctuations in Langevin spin dynamics (<i>10 pages</i>)	054416
	Pui-Wai Ma and S. L. Dudarev	
	Suppression of mixed-phase areas in highly elongated BiFeO ₃ thin films on NdAlO ₃ substrates (<i>8 pages</i>)	054417
	Chang-Su Woo, Jin Hong Lee, Kanghyun Chu, Byung-Kweon Jang, Yong-Bae Kim, Tae Yeong Koo, Ping Yang, Yajun Qi, Zuhuang Chen, Lang Chen, Hong Chul Choi, Ji Hoon Shim, and Chan-Ho Yang	
	Uniaxial magnetic anisotropy in Fe/GaAs(001): Role of magnetoelastic interactions (<i>6 pages</i>)	054418
	Günther Bayreuther, Jörg Premper, Matthias Sperl, and Dirk Sander	
	Probing dynamical magnetization pinning in circular dots as a function of the external magnetic field orientation (<i>7 pages</i>)	054419
	G. N. Kakazei, G. R. Aranda, S. A. Bunyayev, V. O. Golub, E. V. Tartakovskaya, A. V. Chumak, A. A. Serga, B. Hillebrands, and K. Y. Guslienko	
	Insights into the electronic structure of Co ₂ FeSi from x-ray magnetic linear dichroism (<i>8 pages</i>)	054420
	Markus Meinert, Jan-Michael Schmalhorst, Manuel Glas, Günter Reiss, Elke Arenholz, Tim Böhnert, and Kornelius Nielsch	
	Non-Fermi liquid, unscreened scalar chirality, and parafermions in a frustrated tetrahedron Anderson model (<i>6 pages</i>)	054421
	K. Hattori and H. Tsunetsugu	
	First-principles study of magnetoelastic effect in the difluoride compounds MF_2 ($M = \text{Mn, Fe, Co, Ni}$) (<i>6 pages</i>)	054422
	Hena Das, Sudipta Kanungo, and T. Saha-Dasgupta	
	Substrate polarization effects in two-dimensional magnetic arrays (<i>5 pages</i>)	054423
	N. Mikuszeit, F. Luo, G. Gómez-Santos, J. Camarero, and R. Miranda	
	Thermodynamics of localized magnetic moments in a Dirac conductor (<i>5 pages</i>)	054424
	V. Cheianov, M. Szytniszewski, E. Burovski, Yu. Sherkunov, and V. Fal'ko	

(Continued)

Dynamics, dynamical systems, lattice effects:

Direct observation of dynamics of thermal expansion using pump-probe high-energy-resolution x-ray diffraction (<i>5 pages</i>)	054301
S. Stoupin, A. M. March, H. Wen, D. A. Walko, Y. Li, E. M. Dufresne, S. A. Stepanov, K.-J. Kim, Yu. V. Shvyd'ko, V. D. Blank, and S. A. Terentyev	
Infrared phonon activity in pristine graphite (<i>4 pages</i>)	054302
M. Manzardo, E. Cappelluti, E. van Heumen, and A. B. Kuzmenko	
Thermal conductivity of $(\text{Er}_{1-x}\text{Y}_x)_2\text{Ti}_2\text{O}_7$ pyrochlore oxide solid solutions (<i>7 pages</i>)	054303
Craig Bryan, Catherine A. Whitman, Michel B. Johnson, John F. Niven, Patrick Murray, Alex Bourque, Hanna A. Dąbkowska, Bruce D. Gaulin, and Mary Anne White	
Parametric instability in periodically driven Luttinger liquids (<i>7 pages</i>)	054304
M. Bukov and M. Heyl	
Effect of lattice mismatch on phonon transmission and interface thermal conductance across dissimilar material interfaces (<i>13 pages</i>)	054305
Xiaobo Li and Ronggui Yang	
Driven Harper model (<i>4 pages</i>)	054306
Andrey R. Kolovsky and Giorgio Mantica	

Magnetism

Localized moments and the stability of antiferromagnetic order in Yb_3Pt_4 (<i>10 pages</i>)	054401
L. S. Wu, Y. Janssen, M. C. Bennett, and M. C. Aronson	
Multiferroic $\text{FeTe}_2\text{O}_5\text{Br}$: Alternating spin chains with frustrated interchain interactions (<i>6 pages</i>)	054402
M. Pregelj, H. O. Jeschke, H. Feldner, R. Valentí, A. Honecker, T. Saha-Dasgupta, H. Das, S. Yoshii, T. Morioka, H. Nojiri, H. Berger, A. Zorko, O. Zaharko, and D. Arčon	
Magnetic structure determination of $\text{Ca}_3\text{LiOsO}_6$ using neutron and x-ray scattering (<i>7 pages</i>)	054403
S. Calder, M. D. Lumsden, V. O. Garlea, J. W. Kim, Y. G. Shi, H. L. Feng, K. Yamaura, and A. D. Christianson	
Thermal properties of layered cobaltites $\text{RBaCo}_2\text{O}_{5.5}$ ($R = \text{Y, Gd, and Tb}$) (<i>9 pages</i>)	054404
J. Wieckowski, M. U. Gutowska, A. Szewczyk, S. Lewinska, K. Conder, E. Pomjakushina, V. P. Gnezdilov, and S. L. Gnatchenko	
Site-selective quantum correlations revealed by magnetic anisotropy in the tetramer system SeCuO_3 (<i>9 pages</i>) . . .	054405
I. Živković, D. M. Djokić, M. Herak, D. Pajić, K. Prša, P. Pattison, D. Dominko, Z. Micković, D. Cinčić, L. Forró, H. Berger, and H. M. Rønnow	
Spin-induced symmetry breaking in orbitally ordered NiCr_2O_4 and CuCr_2O_4 (<i>9 pages</i>)	054406
Matthew R. Suchomel, Daniel P. Shoemaker, Lynn Ribaud, Moureen C. Kemei, and Ram Seshadri	
Magnetic structure of hexagonal YMnO_3 and LuMnO_3 from a microscopic point of view (<i>10 pages</i>)	054407
I. V. Solovyev, M. V. Valentyuk, and V. V. Mazurenko	
Exchange bias in a nanocrystalline hematite/permalloy thin film investigated with polarized neutron reflectometry (<i>10 pages</i>)	054408
D. L. Cortie, K.-W. Lin, C. Shueh, H.-F. Hsu, X. L. Wang, M. James, H. Fritzsche, S. Brück, and F. Klose	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 86, NUMBER 5

AUGUST 2012-1(I)

Rate theory cluster dynamics simulations including spatial correlations within displacement cascades (9 pages)	054113
T. Jourdan and J.-P. Crocombette	
Monte Carlo Metropolis study of cluster evolution in spin-crossover solids within the framework of a mechanoelastic model (7 pages)	054114
Cristian Enachescu, Masamichi Nishino, Seiji Miyashita, Laurentiu Stoleriu, and Alexandru Stancu	
Phonon softening and superconductivity triggered by spin-orbit coupling in simple-cubic α -polonium crystals (5 pages)	054115
Chang-Jong Kang, Kyoo Kim, and B. I. Min	
Investigation of nickel lattice sites in diamond: Density functional theory and x-ray absorption near-edge structure experiments (7 pages)	054116
Etienne Gheeraert, Amit Kumar, Etienne Bustarret, Laurent Ranno, Laurence Magaud, Yves Joly, Sakura Pascarelli, Matthew Ruffoni, Devesh Kumar Avasthi, and Hisao Kanda	
Orientation-field model for polycrystalline solidification with a singular coupling between order and orientation (15 pages)	054117
Hervé Henry, Jesper Mellenthin, and Mathis Plapp	
Ideal strength and structural instability of aluminum at finite temperatures (6 pages)	054118
Wei Zhou, Yi Zhang, Hong Sun, and Changfeng Chen	
Fast free-energy calculations for unstable high-temperature phases (5 pages)	054119
Nikolas Antolin, Oscar D. Restrepo, and Wolfgang Windl	
Phase diagram of polar states in doped ferroelectric systems (7 pages)	054120
Dong Wang, Xiaoqin Ke, Yunzhi Wang, Jinghui Gao, Yu Wang, Lixue Zhang, Sen Yang, and Xiaobing Ren	
Complex high-pressure polymorphism of barium tungstate (10 pages)	054121
O. Gomis, J. A. Sans, R. Lacomba-Perales, D. Errandonea, Y. Meng, J. C. Chervin, and A. Polian	
Inhomogeneous, disordered, and partially ordered systems	
Super-rough phase of the random-phase sine-Gordon model: Two-loop results (31 pages)	054201
Zoran Ristivojevic, Pierre Le Doussal, and Kay Jörg Wiese	
Observations of charge-ordered and magnetic domains in LuFe_2O_4 using transmission electron microscopy (6 pages)	054202
T. Maruyama, Y. Murakami, D. Shindo, N. Abe, and T. Arima	
Structure of boroaluminosilicate glasses: Impact of $[\text{Al}_2\text{O}_3]/[\text{SiO}_2]$ ratio on the structural role of sodium (12 pages)	054203
Q. J. Zheng, R. E. Youngman, C. L. Hogue, J. C. Mauro, M. Potuzak, M. M. Smedskjaer, and Y. Z. Yue	
Disorder-induced cavities, resonances, and lasing in randomly layered media (10 pages)	054204
Yury Bliokh, Elena I. Chaikina, Noemí Lizárraga, Eugenio R. Méndez, Valentin Freilikher, and Franco Nori	
Segregation in bimetallic nanowires: Size and thermodynamic ensemble effects (11 pages)	054205
Emile Maras, Fabienne Berthier, Isabelle Braems, and Bernard Legrand	

(Continued)

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

- | | |
|---|--------|
| Electronic structure, equation of state, and lattice dynamics of low-pressure Ge polymorphs (7 pages) | 054101 |
| Brad D. Malone and Marvin L. Cohen | |
| Phase transition in GeF ₂ driven by change of type of intermolecular interaction (7 pages) | 054102 |
| Denis Usvyat, Congling Yin, Gero Wälz, Claus Mühle, Martin Schütz, and Martin Jansen | |
| Simulation of alloy thermodynamics: From an atomic to a mesoscale Hamiltonian (12 pages) | 054103 |
| T. Garnier, A. Finel, Y. Le Bouar, and M. Nastar | |
| Simulating liquid and amorphous silicon dioxide using real-space pseudopotentials (8 pages) | 054104 |
| Minjung Kim, K. H. Khoo, and James R. Chelikowsky | |
| Phase stability of long-period stacking structures in Mg-Y-Zn: A first-principles study (6 pages) | 054105 |
| Satoshi Iikubo, Kensuke Matsuda, and Hiroshi Ohtani | |
| Intrinsic defects and conduction characteristics of Sc ₂ O ₃ in thermionic cathode systems (10 pages) | 054106 |
| Ryan M. Jacobs, John H. Booske, and Dane Morgan | |
| First-principles study of the ferroelectric Aurivillius phase Bi ₂ WO ₆ (12 pages) | 054107 |
| Hania Djani, Eric Bousquet, Abdelhafid Kellou, and Philippe Ghosez | |
| Physics of polymorphic transitions in CeRuSn (8 pages) | 054108 |
| J. Fikáček, J. Prokleška, M. Míšek, J. Custers, S. Daniš, J. Prchal, V. Sechovský, and I. Císařová | |
| <i>Ab initio</i> molecular dynamics simulations of low-energy recoil events in ThO ₂ , CeO ₂ , and ZrO ₂ (9 pages) | 054109 |
| H. Y. Xiao, Y. Zhang, and W. J. Weber | |
| Structure and stability of an amorphous water-methane mixture produced by cold compression of methane hydrate (8 pages) | 054110 |
| C. A. Tulk, D. D. Klug, J. J. Molaison, A. M. dos Santos, and N. Pradhan | |
| Neutron diffraction study and anomalous negative thermal expansion in nonsuperconducting PrFe _{1-x} Ru _x AsO (8 pages) | 054111 |
| Yuen Yiu, V. Ovidiu Garlea, Michael A. McGuire, Ashfia Huq, David Mandrus, and Stephen E. Nagler | |
| Antiferrodistortive phase transition in EuTiO ₃ (9 pages) | 054112 |
| V. Goian, S. Kamba, O. Pacherová, J. Drahokoupil, L. Palatinus, M. Dušek, J. Rohlíček, M. Savinov, F. Laufek, W. Schranz, A. Fuith, M. Kachlík, K. Maca, A. Shkabko, L. Sagarna, A. Weidenkaff, and A. A. Belik | |

