

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 111, NUMBER 9

MARCH 2025-1(I)

Resolving phonon-mediated superconducting pairing symmetries from first-principles calculation (<i>7 pages</i>)	094523
Zimeng Zeng, Xiaoming Zhang, Shunhong Zhang, Jian Wu, and Zheng Liu	
Fractional spin Josephson effect in topological spin superconductors (<i>9 pages</i>)	094524
Liang Du, Hua Jiang, Yijia Wu, and X. C. Xie	
Low fractional volume superconductivity in single crystals of $\text{Pr}_4\text{Ni}_3\text{O}_{10}$ under pressure (<i>11 pages</i>)	094525
Xinglong Chen, E. H. T. Poldi, Shuyuan Huyan, R. Chapai, H. Zheng, S. L. Bud'ko, U. Welp, P. C. Canfield, Russell J. Hemley, J. F. Mitchell, and D. Phelan	

 Nodal points, lines, and surfaces, and topological surface states in superconductor NiBi_3 (10 pages) Jie Zhang, Kai-Yue Jiang, Shu-Xiang Qiao, Peng-Cheng Xiao, Na Jiao, Ping Zhang, Hong-Yan Lu, and Qi-Feng Liang	094508
 Atypical vortex lattice and the magnetic penetration depth in superconducting Sr_2RuO_4 deduced by μSR (6 pages) M. Yakovlev, Z. Kartsonas, and J. E. Sonier	094509
Influence of nonmagnetic impurities on the upper critical field, critical current density, and vortex pinning mechanism of the noncentrosymmetric superconductor NbReSi (20 pages) S. Chakraborty and N. Mohapatra	094511
Shapiro response of superconducting diode effect derived from Andreev molecules (13 pages) Sadashige Matsuo, Russell S. Deacon, Shohei Kobayashi, Yosuke Sato, Tomohiro Yokoyama, Tyler Lindemann, Sergei Gronin, Geoffrey C. Gardner, Koji Ishibashi, Michael J. Manfra, and Seigo Tarucha	094512
Impurity strength–temperature phase diagram with phase crystals and competing time-reversal symmetry breaking states in nodal d -wave superconductors (14 pages) K. M. Seja, N. Wall-Wennerdal, T. Löfwander, A. M. Black-Schaffer, M. Fogelström, and P. Holmvall	094513
Unconventional gap structures and the intermediate mixed state: A vortex lattice study of the noncentrosymmetric superconductor BiPd (9 pages) A. S. Cameron, L. Lemberger, R. Riyat, A. T. Holmes, Y. S. Yerin, A. D. Hillier, B. Joshi, S. Ramakrishnan, J. Gavilano, C. D. Dewhurst, E. M. Forgan, and E. Blackburn	094514
Nonlinear diode effect and Berezinskii-Kosterlitz-Thouless transition in purely two-dimensional noncentrosymmetric superconductors (25 pages) Naratip Nunchot and Youichi Yanase	094515
Generic approach for integrating ferroelectricity and superconductivity into a single two-dimensional monolayer (8 pages) Jianyong Chen, Wen-Yi Tong, Ping Cui, and Zhenyu Zhang	094516
Transport properties of $(\text{InSe}_2)_x\text{NbSe}_2$ with enhanced T_c and H_{c2} (9 pages) Heyao Liu, Yuanlong Li, Jun Ge, Yiyu Liu, Shenglong Liu, He Wang, Jian Wang, and Ying Xing	094517
Metal-to-superconductor transition induced by lithium adsorption on monolayer $1T\text{-Nb}_2\text{C}$ (9 pages) Lingxiao Xiong, Yuhui Yan, and Feipeng Zheng	094518
Dynamical visualization of attractively interacting single vortices in type-II/1 superconducting Nb by magneto-optical imaging (7 pages) S. Ooi, M. Tachiki, T. Mochiku, H. Ito, T. Kubo, A. Kikuchi, S. Arisawa, and K. Umemori	094519
Anisotropic high- T_c superconductivity above 90 K in hole-doped boron-nitrogen clathrates at ambient pressure (11 pages) Yu-Lin Han, Kai-Yue Jiang, Bao-Tian Wang, Ping Zhang, and Hong-Yan Lu	094520
Ambient-pressure topological superconductivity in Ag_4H up to 63 K by metallization of hydrogen (15 pages) Chong Tian, Jun-jie Shi, Pinyuan Wang, Juan Du, Jing Lu, Xinqiang Wang, Yao-hui Zhu, and Hong-xia Zhong	094521
Spin-dependent signatures of Majorana vortex fusion within planar Josephson junctions (11 pages) Krishnan Ganesh, Derek K. K. Lee, and Jiannis K. Pachos	094522

(Continued)

Ground state and magnetic transitions of the orthorhombic antiferromagnet $\text{CaCo}_2\text{TeO}_6$ (8 pages)	094434
Xing Huang, Peiyue Ma, Mengwu Huo, Chaoxin Huang, Hualei Sun, Xiang Chen, Sihao Deng, Lunhua He, Tao Xie, Zhangzhen He, and Meng Wang	
First-principles investigation of the emergence of multiferroicity and skyrmions in CrI_2 (9 pages)	094435
Khimananda Acharya, Kai Huang, Evgeny Y. Tsymbal, and Tula R. Paudel	
☞ Hopfions in chiral magnetic trilayers (9 pages)	094436
X. C. Hu, X. S. Wang, C. Wang, and X. R. Wang	
Chiral eigenbases of the XX and XY quantum spin chains (15 pages)	094437
Xin Zhang, Frank Göhmann, Andreas Klümper, and Vladislav Popkov	
Actively trained magnetic moment tensor potentials for mechanical, dynamical, and thermal properties of paramagnetic CrN (11 pages)	094438
Alexey S. Kotykhov, Max Hodapp, Christian Tantardini, Konstantin Kravtsov, Ivan Kruglov, Alexander V. Shapeev, and Ivan S. Novikov	
Structure and magnetic properties of the maple leaf antiferromagnet Ho_3ScO_6 (9 pages)	094439
C. Aguilar-Maldonado, R. Feyerherm, K. Prokeš, L. Keller, and B. Lake	
Microscopic origin of magnetoelectricity in monolayer NiBr_2 and NiI_2 (9 pages)	094440
Hui-Shi Yu, Xiao-Sheng Ni, Dao-Xin Yao, and Kun Cao	
Large flexomagnetic response enabled by topological magnetic textures in monolayer CrN (8 pages)	094441
Qihua Gong, Ziming Tang, and Min Yi	
Superfluidity and superconductivity	
Nonmonotonic superconductivity, nontrivial band topology, and electride state in a beryllene system (10 pages)	094501
Kai-Yue Jiang, Yu-Lin Han, Shu-Xiang Qiao, Ping Zhang, Qiang-Hua Wang, C. S. Ting, and Hong-Yan Lu	
Chirped amplitude mode in photoexcited superconductors (9 pages)	094502
Thomas Blommel, Jason Kaye, Yuta Murakami, Emanuel Gull, and Denis Golež	
☞ Unconventional superconductivity mediated by nematic fluctuations in a multiorbital system: Application to doped FeSe (29 pages)	094503
Kazi Ranjibul Islam and Andrey Chubukov	
Spin excitations in bilayer $\text{La}_3\text{Ni}_2\text{O}_7$ superconductors with interlayer pairing (8 pages)	094504
Meiyu Lu and Tao Zhou	
Self-consistent theory of 2×2 pair density waves in kagome superconductors (8 pages)	094505
Meng Yao, Yan Wang, Da Wang, Jia-Xin Yin, and Qiang-Hua Wang	
Kondo scattering versus weak localization in overdoped infinite-layer $\text{La}_{1-x}\text{Sr}_x\text{NiO}_2$ thin films (8 pages)	094506
Xue-Yan Wang, Mei-Hui Chen, Cheng-Xue Chen, Qiang Zhao, Fang-Hui Zhu, Wen-Long Yang, Xing-Yu Chen, Mei-Ling Yan, Rui-Fen Dou, Chang-Min Xiong, and Jia-Cai Nie	
Intrinsic low-temperature magnetic properties on ultraclean UTe_2 with $T_c = 2.1$ K revealed by ^{125}Te NMR (9 pages)	094507
Hiroki Matsumura, Shunsaku Kitagawa, Shiki Ogata, Riku Matsubayashi, Hiroki Fujibayashi, Katsuki Kinjo, Kenji Ishida, Yo Tokunaga, Hironori Sakai, Shinsaku Kambe, Ai Nakamura, Yusei Shimizu, Yoshiya Homma, Dexin Li, Fuminori Honda, Atsushi Miyake, and Dai Aoki	

(Continued)

Intersublattice entanglement entropy of ferrimagnetic spin chains (<i>6 pages</i>)	094418
Jongmin Y. Lee and Se Kwon Kim	
Quantification of spin-orbit effective fields in (Ga,Mn)(As,P) ferromagnetic semiconductor films by second harmonic Hall voltage measurements (<i>9 pages</i>)	094419
Kyung Jae Lee, Sanghoon Lee, Xinyu Liu, and Jacek K. Furdyna	
Probability maximization of magnetization switching by spin-orbit torques generated by a ferromagnet (<i>11 pages</i>)	094420
Tomohiro Taniguchi, Shinji Isogami, Shuji Okame, Katsuyuki Nakada, Tomoyuki Sasaki, Seiji Mitani, and Masamitsu Hayashi	
Antisymmetry of chiral domain wall dynamics by intralayer symmetry breaking (<i>8 pages</i>)	094421
Dae-Yun Kim and Kyoung-Whan Kim	
Stability considerations and dynamic effects in twisted magnetic structures (<i>12 pages</i>)	094422
Brienne McGrath, Karen L. Livesey, and Robert E. Camley	
Functionalities of frozen domain walls in helical antiferromagnets (<i>13 pages</i>)	094423
A. Sedda, E. Lähderanta, M. Comas, M.-L. Corró, X. Wang, J. Frenzel, G. Eggeler, D. Salazar, E. K. H. Salje, and S. Kustov	
Vanishing contribution of electron-phonon scattering to the anomalous Hall effect due to phonon softening (<i>6 pages</i>)	094424
Jianlei Shen, Junyan Liu, Tingting Liang, Jinying Yang, Qinhui Yang, Jing Wang, Jiamin Lai, Ruilong Yang, Shen Zhang, Binbin Wang, Guozhi Chai, Enke Liu, and Xiaohong Xu	
Phase diagram of a coupled trimer system at half filling using the Hubbard model (<i>11 pages</i>)	094425
Sourabh Saha, Hosho Katsura, and Manoranjan Kumar	
Hidden magnetic phases in <i>i</i> -MAX compounds (<i>8 pages</i>)	094427
Dror Yahav, Ariel Maniv, Daniel Potashnikov, Asaf Pesach, El'ad N. Caspi, Arneil P. Reyes, Quanzheng Tao, Johanna Rosén, and Eran Maniv	
Temperature control of spin-wave spectra in continuously graded epitaxial Pd-Fe alloy films (<i>14 pages</i>)	094428
I. V. Yanilkin, A. I. Gumarov, B. F. Gabbasov, R. V. Yusupov, and L. R. Tagirov	
Extrinsic suppression of the anomalous Hall effect in the Fe-rich kagome magnet Fe ₃ Sn (<i>8 pages</i>)	094429
Muhua Liu, Li Ma, Guoke Li, Congmian Zhen, Denglu Hou, and Dewei Zhao	
Magnon-magnon scattering in monolayer CrI ₃ (<i>13 pages</i>)	094430
Dongqi Luo, Andi Cong, Shiyu Wen, Zhe Yuan, Ka Shen, and Yi Liu	
Thickness scaling of domain size in coexisting ferromagnetic-antiferromagnetic stripe domains (<i>10 pages</i>)	094431
Utkarsh Saha, Tiannan Yang, and Long-Qing Chen	
Ca ₂ CuWO ₆ : A triclinically distorted double perovskite with low-dimensional magnetic behavior (<i>11 pages</i>)	094432
Xuan Liang, Kazunari Yamaura, Alexander A. Tsirlin, and Alexei A. Belik	
Nonreciprocal spin-charge interconversion in topological insulator/ferromagnet heterostructures (<i>8 pages</i>)	094433
Shuyuan Shi, Enlong Liu, Fanrui Hu, Guoyi Shi, Aurélien Manchon, and Hyunsoo Yang	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 111, NUMBER 9

MARCH 2025-1(I)

Electric field driven spin textures in heavy fermion van der Waals magnets (<i>7 pages</i>)	094404
Aayush Vijayvargia, Hao Zhang, Kipton Barros, Shi-Zeng Lin, and Onur Erten	
Realizing ultrastrong magnon-magnon coupling between ferromagnetic resonances in ferromagnetic coupled bilayers (<i>7 pages</i>)	094405
Yingjie Zhu, Shize Qin, Wenjun Ma, Chaozhong Li, Chi Zhang, C. K. Ong, and Guozhi Chai	
Phonon dynamics in quantum spin liquid and valence bond crystal states in the barlowite family of kagome magnets (<i>7 pages</i>)	094406
Arthur C. Campello, Jiajia Wen, Yong Q. Cai, Aaron T. Breidenbach, Rebecca W. Smaha, Hong-Chen Jiang, and Young S. Lee	
Quasiparamagnetic ground state in the hyperhoneycomb lattice compound $\text{Na}_{0.5}\text{Yb}_{0.5}\text{WO}_4$ (<i>11 pages</i>)	094407
Rahul Kumar, Anita Gemmy Francis, Rhea Stewart, Peter J. Baker, Swapan K. Pati, and A. Sundaresan	
Magnetism in the $J_{\text{eff}} = \frac{1}{2}$ kagome antiferromagnet Nd_3BWO_9 : Thermodynamics, nuclear magnetic resonance, muon spin resonance, and inelastic neutron scattering studies (<i>16 pages</i>)	094408
A. Yadav, A. Elghandour, T. Arh, D. T. Adroja, M. D. Le, G. B. G. Stenning, M. Aouane, S. Luther, F. Hotz, T. J. Hicken, H. Luetkens, A. Zorko, R. Klingeler, and P. Khuntia	
Third harmonic resistance in ferromagnet/heavy-metal bilayers (<i>11 pages</i>)	094409
Yuteng Ma, Hang Xie, Yuxin Si, Bin Rong, Jiaqi Wang, Hongsheng Zheng, Yanghui Liu, Yihong Wu, and Yumeng Yang	
Large orbital to charge conversion in the weak spin orbit coupling element Zr in $\text{Zr/Co}_{60}\text{Fe}_{20}\text{B}_{20}$ via spin-orbital pumping and spin-orbital Seebeck effect (<i>13 pages</i>)	094410
Nakul Kumar, Nikita Sharma, Soumyarup Hait, Lalit Pandey, Nanhe Kumar Gupta, Nidhi Shukla, Shubhashish Pati, Abhay Pandey, Mitali, and Sujeet Chaudhary	
Crystal valley Hall effect (<i>8 pages</i>)	094411
Chao-Yang Tan, Ze-Feng Gao, Huan-Cheng Yang, Zheng-Xin Liu, Kai Liu, Peng-Jie Guo, and Zhong-Yi Lu	
Synthetic altermagnets (<i>9 pages</i>)	094412
Ali Asgharpour, Bert Koopmans, and Rembert A. Duine	
Spin transport of chiral magnons in ferrimagnet-antiferromagnet heterostructures (<i>9 pages</i>)	094413
Weidi Wang and Ka Shen	
Possible quantum spin liquid state of $\text{CeTa}_7\text{O}_{19}$ (<i>8 pages</i>)	094414
N. Li, A. Rutherford, Y. Y. Wang, H. Liang, Y. Zhou, Y. Sun, D. D. Wu, P. F. Chen, Q. J. Li, H. Wang, W. Xie, E. S. Choi, S. Z. Zhang, M. Lee, H. D. Zhou, and X. F. Sun	
Helicity modulus in the bilayer XY model by the Monte Carlo worm algorithm (<i>11 pages</i>)	094415
A. Masini, A. Cuccoli, A. Rettori, A. Trombettoni, and F. Cinti	
Robust Nernst magnetothermoelectricity in the topological spin semimetal FeCrRhX ($X = \text{Si, Ge}$) (<i>17 pages</i>)	094416
Amit Chanda, Jadupati Nag, Noah Schulz, Derick DeTellem, Aftab Alam, K. G. Suresh, Manh-Huong Phan, and Hariharan Srikanth	
Noncollinear ground states of solids with a source-free exchange correlation functional (<i>19 pages</i>)	094417
Guy C. Moore, Matthew K. Horton, Aaron D. Kaplan, Omar A. Ashour, Sinéad M. Griffin, and Kristin A. Persson	

(Continued)

Instability of the engineered dark state in two-band fermions under number-conserving dissipative dynamics (<i>16 pages</i>)	094302
A. A. Lyublinskaya, P. A. Nosov, and I. S. Burmistrov	
Valley Hall effect in a bilayer graphene phononic crystal without localized Berry curvature (<i>6 pages</i>)	094303
Fang Liu, Peng Kong, Xiaoyun Wang, Jien Wu, Zhaojian He, and Ke Deng	
Phase transitions in quasiperiodically driven quantum critical systems: Analytical results (<i>18 pages</i>)	094304
Jiyuan Fang, Qi Zhou, and Xueda Wen	
Closed dynamical recursion equations for correlation functions and their application for the construction of the Liouvillian spectrum in Lindbladian systems (<i>28 pages</i>)	094305
Xueliang Wang and Shu Chen	
Mode-coupling formulation of heat transport in anharmonic materials (<i>20 pages</i>)	094306
Aloïs Castellano, J. P. Alvarinhas Batista, Olle Hellman, and Matthieu J. Verstraete	
Static Born charges and quantum capacitance in metals and doped semiconductors (<i>19 pages</i>)	094307
Asier Zabalo, Cyrus E. Dreyer, and Massimiliano Stengel	
Anisotropic anharmonicity dictates the thermal conductivity of β -Ga ₂ O ₃ (<i>10 pages</i>)	094308
Abdulaziz Alkandari, Zherui Han, Ziqi Guo, Thomas E. Beechem, and Xiulin Ruan	
Photon-assisted stochastic resonance in nanojunctions (<i>14 pages</i>)	094309
Michael Ridley, Leo Bellasai, Michael Moskalets, Lev Kantorovich, and Riku Tuovinen	
Adaptive variational quantum dynamics simulations with compressed circuits and fewer measurements (<i>13 pages</i>)	094310
Feng Zhang, Cai-Zhuang Wang, Thomas Iadecola, Peter P. Orth, and Yong-Xin Yao	
Ultralow lattice thermal conductivity of Li ₂ AgSb due to strong quartic anharmonicity (<i>12 pages</i>)	094312
Qian Guo, Yinchang Zhao, Pengfei Sui, Jun Ni, and Zhenhong Dai	
Polynomially restricted operator growth in dynamically integrable models (<i>11 pages</i>)	094314
Igor Ermakov, Tim Byrnes, and Oleg Lychkovskiy	
Symmetry-protection Zeno phase transition in monitored lattice gauge theories (<i>18 pages</i>)	094315
Matteo M. Wauters, Edoardo Ballini, Alberto Biella, and Philipp Hauke	
Operator dynamics in Floquet many-body systems (<i>28 pages</i>)	094316
Takato Yoshimura, Samuel J. Garratt, and J. T. Chalker	
Magnetism	
Stripe magnetic order in semimetallic triangular-lattice CeLi ₃ Bi ₂ (<i>11 pages</i>)	094401
M. M. Bordelon, R. Yamamoto, M. O. Ajeesh, C. Girod, J. Wampler, P. Sherpa, A. P. Dioguardi, J. D. Thompson, S. Calder, V. Zapf, F. Ronning, S. M. Thomas, E. D. Bauer, M. Hirata, and P. F. S. Rosa	
Diverging entanglement of critical magnons in easy-axis antiferromagnets (<i>11 pages</i>)	094402
Jongjun M. Lee, Hyun-Woo Lee, and Myung-Joong Hwang	
Spin-singlet ground state with spin gap in $S_{\text{eff}} = \frac{1}{2}$ antiferromagnetic tetramer compound Yb ₂ SiO ₅ (<i>9 pages</i>)	094403
Masashi Hase, Koji Kaneko, Chihiro Tabata, Hiroki Yamauchi, Naohito Tsujii, and Andreas Dönni	

(Continued)

Temperature shift of magnetic field dependent photoluminescence features of nitrogen-vacancy ensembles in diamond (<i>12 pages</i>)	094112
Irena Rodzoń, Xue Zhang, Viktor Ivády, Huijie Zheng, Arne Wickenbrock, and Dmitry Budker	
☞ Thermal disorder and phonon softening in the ferroelectric phase transition of lead titanate (<i>12 pages</i>)	094113
Pinchen Xie, Yixiao Chen, Weinan E, and Roberto Car	
Inhomogeneous, disordered, and partially ordered systems	
Tensor network Monte Carlo simulations for the two-dimensional random-bond Ising model (<i>14 pages</i>)	094201
Tao Chen, Erdong Guo, Wanzhou Zhang, Pan Zhang, and Youjin Deng	
Real space quantum metric of solids (<i>12 pages</i>)	094202
Lucas A. Oliveira and Wei Chen	
Local structure and anomalous chemical potential shift in the $\text{AgBiSe}_{2-2x}\text{Te}_x\text{S}_x$ system (<i>11 pages</i>)	094203
L. Tortora, A. Seshita, M. Y. Hacisalihoglu, A. Yamashita, G. Tomassucci, F. Minati, A. Skorynina, L. Simonelli, T. Mizokawa, Y. Mizuguchi, and N. L. Saini	
Long-range hopping in a quasiperiodic potential weakens the non-Hermitian skin effect (<i>11 pages</i>)	094204
Dechi Peng, Shujie Cheng, and Gao Xianlong	
Density dependence of thermal conductivity in nanoporous and amorphous carbon with machine-learned molecular dynamics (<i>15 pages</i>)	094205
Yanzhou Wang, Zheyong Fan, Ping Qian, Miguel A. Caro, and Tapio Ala-Nissila	
Two-mode terms in Wigner transport equation elucidate anomalous thermal transport in amorphous silicon (<i>10 pages</i>)	094206
Jin Yang, Xueyan Zhu, Alan J. H. McGaughey, Yee Sin Ang, and Wee-Liat Ong	
Universal semiclassical dynamics in disordered two-dimensional systems (<i>13 pages</i>)	094207
Łukasz Iwanek, Marcin Mierzejewski, Anatoli Polkovnikov, Dries Sels, and Adam S. Sajn	
Photoinduced pattern formation and melting of charge density wave order (<i>15 pages</i>)	094208
Lingyu Yang and Gia-Wei Chern	
Lattice distortion tuning resistivity Invar effect in high-entropy alloys (<i>8 pages</i>)	094209
Hao Chen, Yuanji Xu, Lihua Liu, Yue Chen, Jan Wróbel, Daoyong Cong, Fuyang Tian, and Yang Wang	
Characterizing dynamical criticality of many-body localization transitions from a Fock-space perspective (<i>12 pages</i>)	094210
Zheng-Hang Sun, Yong-Yi Wang, Jian Cui, Heng Fan, and Markus Heyl	
Hierarchical analytical approach to universal spectral correlations in Brownian quantum chaos (<i>23 pages</i>)	094211
Tara Kalsi, Alessandro Romito, and Henning Schomerus	
Phases and phase transitions of the disordered quantum clock model (<i>17 pages</i>)	094212
Pulloor Kuttanikkad Vishnu, Gaurav Khairnar, Rajesh Narayanan, and Thomas Vojta	
Dynamics, dynamical systems, lattice effects:	
Pauli weight requirement of the matrix elements in time-evolved local operators: Dependence beyond the equilibration temperature (<i>14 pages</i>)	094301
Carlos Ramos-Marimón, Stefano Carignano, and Luca Tagliacozzo	

(Continued)

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

- Electrical resistivity, thermal conductivity, and viscosity of Fe-H alloys at Earth's core conditions (*10 pages*) 094101
Cong Liu and R. E. Cohen
- Impact of point defect charge states on the thermal conductivity of AlN (*6 pages*) 094102
Guotai Li, Zheng Cui, and Ruiqiang Guo
- Structures of hydrogen at terapascal pressures (*8 pages*) 094103
Kazutaka Abe
- Coexistence of ordered and disordered vacancies in tungsten diboride with a broken hexagonal symmetry (*10 pages*) 094104
Chao Gu, Xiaojun Xiang, Xiaohui Yu, Qiang Zhang, Yusheng Zhao, and Shanmin Wang
- Probing the temperature-induced phase transition mechanism in $\text{PbTiO}_3\text{-BiM}_{0.5}\text{Ti}_{0.5}\text{O}_3$ ferroelectrics across the morphotropic phase boundary (*8 pages*) 094105
B. Mihailova, L. Bayarjargal, I. Margaritescu, K. Datta, and J. Chen
- Machine learning assisted identification of homobilayer sliding ferroelectrics with large out-of-plane polarization and low sliding energy barriers (*12 pages*) 094106
Xian Wang, Yifan Li, Ying Zhang, Peng Wang, Yi-Ming Zhao, Jun Zhou, Jie Yang, Xuesen Wang, and Lei Shen
- Propensity of oxidation of transition metal dichalcogenide monolayers in relation to physical configuration of chalcogen vacancies (*8 pages*) 094107
Hiroyo Kawai, Fabio Bussolotti, Khoong Hong Khoo, and Kuan Eng Johnson Goh
- Core bonding in Cs metal under high pressure and its return to close-packed structures (*7 pages*) 094108
Yuanhui Sun, Abhiyan Pandit, Ling-Jun He, Haiqing Lin, and Maosheng Miao
- Non-Hermitian Floquet higher-order topological states in two-dimensional quasicrystals (*11 pages*) 094109
Aoqian Shi, Linsheng Bao, Peng Peng, Jiayun Ning, Zhennan Wang, and Jianjun Liu
- Hybrid-orbital topological disclination states and wave propagation in defect-induced confined Mie resonance photonic crystals (*11 pages*) 094110
Yuxin Zhang, Lanxin Luo, Xiaoyu Dai, and Yuanjiang Xiang
- Self-reasoning assisted learning for non-Abelian gauge fields design (*8 pages*) 094111
Jinyang Sun, Xi Chen, Xiumei Wang, Dandan Zhu, and Xingping Zhou



(Continued)

