

 Joint control of coherent transmission, reflection, and absorption (<i>12 pages</i>)	245421
Shiyu Li, Dongha Kim, Shanhui Fan, and Cheng Guo	
Synergic effect of doping and polarization improves the overall water splitting performance by enhancing activity and separation of photogenerated electrons and holes in two-dimensional photocatalysts (<i>10 pages</i>)	245422
Chengfeng Pan, Dazhong Sun, Zhennan Lin, Yu-Ning Wu, and Xianghong Niu	
Tunable electronic band structure in $\text{WS}_{2(1-x)}\text{Se}_{2x}$ van der Waals alloys (<i>10 pages</i>)	245423
Meryem Bouaziz, Leonard Schue, Noeliarinala Felana Andriambelaza, Natalia Alyabyeva, Jean-Christophe Girard, Pavel Dudin, Fabian Cadiz, Jose Avila, Yannick Dappe, Cesar Gonzalez, Julien Chaste, Fabrice Oehler, Christine Giorgetti, Fausto Sirotti, and Abdelkarim Ouerghi	
Minimal model of an artificial topological material realized in a two-terminal Josephson junction threaded by Aharonov-Casher fluxes (<i>6 pages</i>)	245424
Luka Medic, Anton Ramšak, and Tomaž Rejec	
Band geometry induced third-harmonic generation (<i>15 pages</i>)	245425
Sanjay Sarkar, Debottam Mandal, and Amit Agarwal	
Correlation effects in one-dimensional metallic quantum wires under various confinements (<i>18 pages</i>)	245426
Vidit Gangwar, Vinod Ashokan, Ankush Girdhar, Klaus Morawetz, N. D. Drummond, and K. N. Pathak	
Janus MSH ($M = \text{Sc, Y, V, Nb, Ta}$) monolayers: Promising candidates for photocatalytic water splitting and out-of-plane piezoelectricity (<i>12 pages</i>)	245427
Luo Yan, Ruiqi Ku, Yiqi Huo, Lei Hu, Xue-Kun Chen, Bao-Tian Wang, and Liujiang Zhou	
Residual gauge theory for quanta of surface plasmons (<i>15 pages</i>)	245428
Ken-ichi Sasaki	
Microscopic scattering approach to in-gap states: Cr adatoms on superconducting $\beta\text{-Bi}_2\text{Pd}$ (<i>9 pages</i>)	245429
Joseph Sink, Hari Paudyal, Divya Jyoti, Andreas J. Heinrich, Deung-Jang Choi, Nicolás Lorente, and Michael E. Flatté	
Purcell-enhanced quantum adsorption (<i>4 pages</i>)	245430
Dennis P. Clougherty	

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 112, NUMBER 24

DECEMBER 2025-15(II)

☞ Strain gradient engineered flexophotovoltaics and spin polarization in bent MoSi_2N_4 nanoribbons (10 pages)	245407
Helong Chen, Meng Ge, Yang Xiao, Degao Xu, Jianing Tan, and Gang Ouyang	
☞ Contrasting exchange-field and spin-transfer torque driving mechanisms in all-electric electron spin resonance (27 pages)	245408
Jose Reina-Gálvez, Matyas Nachtigall, Nicolás Lorente, Jan Martinek, and Christoph Wolf	
☞ Giant shift current in electrically tunable superlattice bilayer graphene (8 pages)	245409
Nabil Atlam, Swati Chaudhary, Arpit Raj, Matthew Matzelle, Barun Ghosh, Gregory A. Fiete, and Arun Bansil	
Unraveling competing charge orders in monolayer VTe_2 (9 pages)	245410
Qiongru Wang, Fei Wang, and Chao-Sheng Lian	
Multifold bulk-boundary correspondence in a gyromagnetic photonic crystal (10 pages)	245411
Mian Peng, Qiang Wei, Ai-Lei He, Zeheng Huang, Weiyin Deng, Zhengyou Liu, and Gang Chen	
Floquet-Nambu theory of electron quantum optics with superconductors (26 pages)	245412
Pablo Burset, Benjamin Roussel, Michael Moskalets, and Christian Flindt	
Enabling and enhancing sliding ferroelectricity in homobilayers via atomic intercalation (11 pages)	245413
Shuangli Yue, Dong-Hui Xu, Li Zhang, Gang Jiang, Mingli Yang, and Xian Wang	
Significant tunneling electroresistance and ultralow resistance-area product in asymmetric $\text{In}_2\text{S}_3/\text{Cu}_2\text{Se}$ ferroelectric tunnel junctions (10 pages)	245414
Qingyan Li, Lei Gao, Yufei Xue, Xi Geng, Wuyi Gao, and Jinming Cai	
First-principles insights into excitonic and electron-phonon effects in a $\text{ZrS}_2/\text{HfS}_2$ van der Waals heterostructure (12 pages)	245415
Mohammad Ali Mohebpour, Carmine Autieri, and Meysam Bagheri Tagani	
☞ Electronic structure of monolayer CrTe_2 : An antiferromagnetic two-dimensional van der Waals material (9 pages)	245416
Olivia Armitage, Naina Kushwaha, Akhil Rajan, Luke C. Rhodes, Sebastian Buchberger, Bruno Kenichi Saika, Shu Mo, Matthew D. Watson, Phil D. C. King, and Peter Wahl	
Optically controllable spin polarization in two-dimensional altermagnets via robust spin-momentum locking excitons (12 pages)	245417
Jiuyu Sun, Jinzhe Han, Yongping Du, and Erjun Kan	
Competitive polarization-enhanced flexophotovoltaic effect in a piezoelectric Janus In_2STe monolayer (12 pages)	245418
Degao Xu, Jiahua Xu, Helong Chen, Meng Ge, Jiansheng Dong, Shanjun Chen, Chenjie Dai, Xianzhuo Wang, Jianing Tan, Wenxing Yang, and Gang Ouyang	
Boosting vibrational strong coupling via quasibound states in the continuum in hybrid metal-dielectric metasurfaces (8 pages)	245419
Peng Xie, Yuxiang Ni, Hongyan Wang, Hui Wang, Fengai Zhao, and Wei Wang	
Multipolar angular scattering of substrated metasurfaces (12 pages)	245420
Hossein Allahverdizadeh and Karim Achouri	

(Continued)

Investigating the origin of dielectric responses in semiconductor devices using equilibrium photocapacitance measurements (<i>10 pages</i>)	245203
Muhammed Raees A., Greeshma L. S., Anjana K. N., and Manoj A. G. Namboothiry	
Semiconductors II: surfaces, interfaces, microstructures, and related topics	
☞ Influence of local strain on the optical probing of a Ni^{2+} spin in a charged self-assembled epitaxial quantum dot (<i>16 pages</i>)	245301
K. E. Połczyńska, S. Karouz, W. Pacuski, and L. Besombes	
Exceptional second-order topological insulators (<i>26 pages</i>)	245302
Yutaro Tanaka, Daichi Nakamura, Ryo Okugawa, and Kohei Kawabata	
☞ First-principles calculations of thermal transport at metal/silicon interfaces: Evidence of interfacial electron-phonon coupling (<i>17 pages</i>)	245303
Michael De San Féliciano, Christophe Adessi, Julien El Hajj, Nicolas Horny, François Detcheverry, Manuel Cobian, and Samy Merabia	
Microscopic approach to the quantized light-matter interaction in semiconductor nanostructures: Complex coupled dynamics of excitons, biexcitons, and photons (<i>12 pages</i>)	245304
Hendrik Rose, Stefan Schumacher, and Torsten Meier	
Dynamically dressed states of a quantum four-level system (<i>9 pages</i>)	245305
Carolin Calcagno, Friedrich Sbresny, Thomas K. Bracht, Sang Kyu Kim, Eduardo Zubizarreta Casalengua, Katarina Boos, William Rauhaus, Hubert Riedl, Jonathan J. Finley, Doris E. Reiter, and Kai Müller	
AC/DC spin current in ferromagnet/superconductor/normal-metal trilayer systems (<i>14 pages</i>)	245306
Koki Mizuno, Manato Teranishi, and Hirone Ishida	
Time-resolved dynamics of GaN waveguide polaritons (<i>11 pages</i>)	245307
Loïc Méchin, François Médard, Joël Leymarie, Sophie Bouchoule, Blandine Alloing, Jesús Zúñiga-Pérez, and Pierre Disseix	
Surface physics, nanoscale physics, low-dimensional systems	
Theory of nonlinear electron relaxation in thin gold films and their signatures in optical observables (<i>22 pages</i>)	245402
Jonas Grumm, Malte Selig, Holger Lange, and Andreas Knorr	
Controllable dynamic magnetism in reconfigurable ferroelastic domain-wall networks engineered via nanocavities (<i>14 pages</i>)	245403
Guangming Lu, Shai Rabkin, Wei Liu, Suzhi Li, Guohua Dong, Hyeok Yoon, Harold Y. Hwang, Beena Kalisky, and Ekhard K. H. Salje	
Hierarchy of many-body localized bound states in an interacting open lattice (<i>6 pages</i>)	245404
Yanxia Liu and Shu Chen	
Electric field modulation of plasmons in charge-neutral bilayer MoS_2 (<i>13 pages</i>)	245405
Wenqian Feng, Lanting Feng, Yunhua Wang, Guodong Yu, and Shengjun Yuan	
Shock absorption by multilayer carbon nanotube packings (<i>11 pages</i>)	245406
Alexander V. Savin	

(Continued)

Mesoscale variations of the chemical and electronic landscape on the surface of the Weyl semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ visualized by ARPES and XPS (<i>10 pages</i>)	245154
Sudheer Anand Sreedhar, Matthew Staab, Mingkun Chen, Robert Prater, Zihao Shen, Giuseppina Conti, Ittai Sidilkover, Zhenghong Wu, Eli Rotenberg, Aaron Bostwick, Chris Jozwiak, Hadas Soifer, Slavomir Nemsak, Sergey Y. Savrasov, Vsevolod Ivanov, Valentin Taubour, and Inna M. Vishik	
Intrinsic phase fluctuations and superfluid density in doped Mott insulators (<i>10 pages</i>)	245155
Zeyu Han, Zhi-Jian Song, Jia-Xin Zhang, and Zheng-Yu Weng	
Quantum-critical transport in marginal Fermi liquids (<i>27 pages</i>)	245156
Hideaki Maebashi and Chandra M. Varma	
Field-induced anomaly in the anisotropic non-Fermi-liquid normal state of UBe_{13} (<i>10 pages</i>)	245157
Yusei Shimizu, Shunichiro Kittaka, Yohei Kono, Shota Nakamura, Yoshinori Haga, Etsuji Yamamoto, Kazushige Machida, Hiroshi Amitsuka, and Toshiro Sakakibara	
Charge-localization-driven metal-insulator phase transition in layered molecular conductors (<i>11 pages</i>)	245158
Savita Priya, Maxim Wenzel, Olga Iakutkina, Marvin Schmidt, Christian Prange, Dieter Schweitzer, Yohei Saito, Reizo Kato, Koichi Hiraki, and Martin Dressel	
Interfacial line energy of a topological phase (<i>14 pages</i>)	245159
Saikat Mondal and Adhip Agarwala	
Effects of spin-orbit coupling and thermal expansion on the phonon-limited resistivity of Pb from first principles (<i>14 pages</i>)	245160
Félix Antoine Goudreault, Samuel Poncé, Feliciano Giustino, and Michel Côté	
Excitonic insulator and the extended Falicov-Kimball model away from half-filling (<i>11 pages</i>)	245161
D. I. Golosov	
Gradient flow and Bogomolny bounds for quantum metric actions (<i>7 pages</i>)	245162
Takahiro Fukui	
Revealing the similarity to Ruddlesden-Popper nickelates and electron-phonon coupling in the infinite-layer nickelate superconductor $(\text{Sm}_{0.69}\text{Ca}_{0.05}\text{Eu}_{0.26})\text{NiO}_2$ by pump-probe spectra (<i>9 pages</i>)	245163
Qiong Wu, Mingwei Yang, Shuxiang Xu, Heng Wang, Hao Wang, Dong Wu, Tao Dong, Danfeng Li, and Nanlin Wang	
Probing unoccupied Yb $5d$ states in YbAl_3 by L_{III} -edge x-ray absorption spectroscopy (<i>8 pages</i>)	245164
Norimasa Sasabe, Masafumi Gotoda, Kojiro Mimura, Takayuki Uozumi, Hitoshi Sato, Naomi Kawamura, Shigeo Ohara, and Masaichiro Mizumaki	
Spin stripes in the Hubbard model: A combined dynamical mean-field theory and Bethe-Salpeter analysis (<i>9 pages</i>)	245165
Ruslan Mushkaev, Francesco Petocchi, Shintaro Hoshino, and Philipp Werner	
Semiconductors I: bulk	
Polarization doping of wurtzite III-nitride ternary alloys (<i>12 pages</i>)	245201
Jingkai Zhao, Kaikai Liu, Gaoqiang Deng, Xiaojuan Sun, Dabing Li, Xiaohang Li, and Yuantao Zhang	
First-principles average electronic stopping power calculations: Trajectory selection based on electronic density (<i>13 pages</i>)	245202
Thomas Jarrin	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 112, NUMBER 24

DECEMBER 2025-15(II)

Non-Abelian fractional Chern insulator on a hyperbolic lattice (9 pages)	245140
Ai-Lei He, Lu Qi, Wei-Wei Luo, and Yongjun Liu	
Identifying optimal magnetic field configurations for decoherence mitigation of boron vacancies in hexagonal boron nitride (10 pages)	245141
Basanta Mistri, Saksham Mahajan, Felix Donaldson, Rama K. Kamineni, and Siddharth Dhomkar	
Influence of Ge/Sb intermixing and doping on the electronic and transport properties of hexagonal Ge ₂ Sb ₂ Te ₅ crystals (12 pages)	245142
Pierre Gaubert, Rajarshi Sinha-Roy, Dongzhe Li, Rémi Arras, and Lionel Calmels	
Harnessing band symmetry for giant tunneling magnetoresistance and tunable spin transport in strain-ferroelectricity coupled multiferroic tunnel junctions (9 pages)	245143
Hongfang Li, Weijin Chen, Dong Fan, and Yue Zheng	
Optical pumping simulations and optical Rabi frequency measurements in ¹⁵¹ Eu ³⁺ :Y ₂ SiO ₅ under magnetic field (12 pages)	245144
Jingjing Chen and Mikael Afzelius	
Fermi-liquid-like phase driven by next-nearest-neighbor couplings in a lightly doped kagome-lattice <i>t</i> - <i>J</i> model (11 pages)	245145
Xu-Yan Jia, Fan Yang, D. N. Sheng, and Shou-Shu Gong	
Functionalization-induced in-plane quantum anomalous Hall effect with magnetization-tunable Chern numbers (9 pages)	245146
Kunpeng Cai, Yanqing Shen, Xin Yang, Xianghui Meng, Dewei Gong, Qing Ai, Yong Shuai, and Zhongxiang Zhou	
Kondo effect under arbitrary spin-momentum locking (6 pages)	245147
Kinari Goto and Yusuke Nishida	
Real Chern insulators in two-dimensional altermagnetic Fe ₂ S ₂ O and Fe ₂ Se ₂ O (9 pages)	245148
Yong-Kun Wang, Shifeng Qian, An-Dong Fan, and Si Li	
Spin stiffnesses and stability of magnetic order in the lightly doped two-dimensional Hubbard model (16 pages)	245149
Demetrio Vilardi, Pietro M. Bonetti, and Walter Metzner	
Sublattice-spin-valley-locked Weyl semimetals in van der Waals stacked structures (7 pages)	245150
Wei Xu and Zhongqin Yang	
Universal Mott quantum criticality in a modified periodic Anderson model (12 pages)	245151
Sujan K. K. and N. S. Vidhyadhiraja	
Electronic correlations and spin-charge-density stripes in double-layer La ₃ Ni ₂ O ₇ (12 pages)	245152
I. V. Leonov	
Orbital-dominated intrinsic nonlinear planar Hall response and its application in CuTiSe ₂ (9 pages)	245153
Fan Yang, Xu-Tao Zeng, Huiying Liu, Cong Xiao, Xian-Lei Sheng, and Shengyuan A. Yang	

(Continued)

Nanoscale modulation of flat bands via controllable charge density wave defects in $4Hb$ -TaS ₂ (6 pages)	245126
Woojin Yang, S Karbasizadeh, Hoyeon Jeon, Saban Hus, Arthur P. Baddorf, Sai Mu, Tom Berlijn, Haidong Zhou, Wonhee Ko, and An-Ping Li	
Symmetries in zero and finite center-of-mass momenta excitons (16 pages)	245127
Robin Bajaj, Namana Venkatareddy, H. R. Krishnamurthy, and Manish Jain	
Phonon spectra, quantum geometry, and the Goldstone theorem (9 pages)	245128
Guglielmo Pellitteri, Zenan Dai, Haoyu Hu, Yi Jiang, Guido Menichetti, Andrea Tomadin, B. Andrei Bernevig, and Marco Polini	
Numerical investigation of a time-modulated Lorentz-dispersive bianisotropic metasurface for nonreciprocal transmission and absorption (13 pages)	245129
Hasan Önder Yılmaz	
Emergence of diverse topological states in Ge-doped MnBi ₂ Te ₄ (10 pages)	245130
Zhijian Shi, Shengjie Xu, Jianfeng Wang, Yi Du, and Weichang Hao	
☞ Many-body electronic structure in the pyrochlore superconductor CsBi ₂ and spin-liquid candidate Pr ₂ Ir ₂ O ₇ (10 pages)	245131
Wei Song, Guowei Liu, Hanbin Deng, Tianyu Yang, Yongkai Li, Xiao-Yu Yan, Ruoxing Liao, Qianming Wang, Jiayu Xu, Chao Yan, Yuanyuan Zhao, Hailang Qin, Da Wang, Wenchuan Jing, Dawei Shen, Kosuke Nakayama, Takafumi Sato, Chandan Setty, Desheng Wu, Boqin Song, Tianping Ying, Zhaoming Tian, Akito Sakai, Satoru Nakatsuji, Harish Kumar, Christine A. Kuntscher, Zhiwei Wang, Qi-Kun Xue, and Jia-Xin Yin	
☞ Perturbative renormalization group approach to magic-angle twisted bilayer graphene using topological heavy fermion model (20 pages)	245132
Yi Huang, Yang-Zhi Chou, and Sankar Das Sarma	
Giant enhancement of Rashba spin splitting and anisotropy in thermodynamically stable Janus TaQX monolayers ($Q = O, S$; $X = F, Cl, Br$) (16 pages)	245133
Souvik Bhattacharjee and Aswini Ghosh	
Divergent density of states and nonanalytic Lyapunov exponent in one-dimensional slowly varying systems (7 pages)	245134
Hai-Tao Hu, Ming Gong, Guangcan Guo, and Zijiang Lin	
Unified optical response of two-dimensional Lieb-to-kagome lattices (27 pages)	245135
Shashikant Kumar, Gulshan Kumar, Tobias Stauber, and Prakash Parida	
☞ Quantum oscillations reveal sixfold fermions in cubic β -PtBi ₂ (8 pages)	245136
E. F. Bavaro, J. Castro, V. Vildosola, J. I. Facio, and V. F. Correa	
Interplay of non-Hermitian skin effect and electronic correlations in the non-Hermitian Hubbard model via real-space dynamical mean-field theory (8 pages)	245137
Chakradhar Rangi, Juana Moreno, and Ka-Ming Tam	
Topological phase diagram of generalized Su-Schrieffer-Heeger models with interactions (9 pages)	245138
Yuxiao Hang and Stephan Haas	
Entanglement and fluctuations of the fractonic phases in a one-dimensional dipole-conserving Bose-Hubbard chain (11 pages)	245139
Chenrong Liu	

(Continued)

Orbital-tailored interstitial magnetism: From electrides to magnetrides (<i>6 pages</i>)	245112
Dmitry Y. Novoselov	
☞ Fermi-surface driven frustrations in charge ordered kagome metal LuNb_6Sn_6 (<i>7 pages</i>)	245113
F. Z. Yang, X. Huang, Hengxin Tan, A. Kundu, S. Kim, M. Thinel, J. Ingham, A. Rajapitamahuni, Y. Q. Cai, C. Nelson, E. Vescovo, W. R. Meier, D. Mandrus, B. R. Ortiz, A. N. Pasupathy, Binghai Yan, and H. Miao	
Electronic, magneto-optical, and magnetotransport properties of the topological insulator $\text{Sb}_2\text{Te}_2\text{Se}$ (<i>10 pages</i>)	245114
Yulia E. Kovalenko, Michael V. Yakushev, Vladimir I. Grebennikov, Vladimir A. Golyashov, Vyacheslav V. Marchenkov, Milan Orlita, Yuri S. Ponomov, Evgeniy I. Patrakov, Svetlana G. Titova, Robert W. Martin, Konstantin A. Kokh, Oleg E. Tereshchenko, and Tatyana V. Kuznetsova	
Activation of anomalous Hall effect and orbital magnetization by domain walls in altermagnets (<i>12 pages</i>)	245115
Sopheak Sorn and Yuriy Mokrousov	
Doping-induced variation of anomalous Hall effect in the magnetic Weyl-Kondo metal candidate $\text{CeCo}_{1-x}\text{Fe}_x\text{Ge}_3$ (<i>8 pages</i>)	245116
Tomomi Furuhashi, Keisuke Hozawa, Yusuke Kozuka, Yoshihiro Tsujimoto, Kazunari Yamaura, and Jun Fujioka	
Surface Landau level signatures of a topological transition in antiferromagnetic topological insulators (<i>8 pages</i>)	245117
Yichen Liu, Tongshuai Zhu, and Haijun Zhang	
Exactly solvable spin liquids in Kitaev bilayers and moiré superlattices (<i>13 pages</i>)	245118
Ivan Dutta, Anamitra Mukherjee, Onur Erten, and Kush Saha	
☞ Third-order strong-coupling impurity solver for real-frequency dynamical mean field theory: Accurate spectral functions for antiferromagnetic and photodoped states (<i>24 pages</i>)	245119
Lei Geng, Aaram J. Kim, and Philipp Werner	
☞ Kinetic magnetism in the crossover between the square and triangular lattice Fermi-Hubbard models (<i>15 pages</i>)	245120
Darren Pereira and Erich J. Mueller	
Chiral Heisenberg Gross-Neveu-Yukawa criticality: Honeycomb versus SLAC fermions (<i>16 pages</i>)	245121
Thomas C. Lang and Andreas M. Läuchli	
Ground-state phase diagram of the quarter-filled interacting Su-Schrieffer-Heeger chain (<i>10 pages</i>)	245122
Yan-Xiao Wang and Yin Zhong	
☞ Spontaneous symmetry breaking in open quantum systems: Strong, weak, and strong-to-weak (<i>15 pages</i>)	245123
Ding Gu, Zijian Wang, and Zhong Wang	
Structural and electrical properties of RSbTe ($R = \text{La}, \text{Y}$) nodal-line semimetals with tunable band filling (<i>17 pages</i>)	245124
Haruka Kageyama, Atsushi Maebara, Yoshio Nogami, and Ryusuke Kondo	
Interplay of orbital-selective Mott criticality and flat-band physics in $\text{La}_3\text{Ni}_2\text{O}_6$ (<i>7 pages</i>)	245125
Frank Lechermann, Steffen Bötzel, and Ilya M. Eremin	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 112, NUMBER 24

DECEMBER 2025-15(II)

Theory of quasiballistic spin transport (<i>6 pages</i>)	L241408
Jeffrey Z. Song, Hyunsoo Ha, Wen Wei Ho, and Vir B. Bulchandani	
Antichiral edge states and Bogoliubov Fermi surfaces in a two-dimensional proximity-induced superconductor (<i>7 pages</i>)	L241409
Gabriel F. Rodríguez Ruiz, Juan Herrera Mateos, Leandro Tosi, Christoph Strunk, Carlos Balseiro, and Liliana Arrachea	
Fermi edge singularity in photoluminescence of graphene (<i>7 pages</i>)	L241410
Takeshi Koyama, Hiromu Odamura, Taito Masuda, and Hideo Kishida	

ARTICLES

Electronic structure and strongly correlated systems

Robust broadband large-area photonic waveguides based on topological states (<i>8 pages</i>)	245101
Shiqi Tong and Jiawen Xu	
Constrained random phase approximation: The spectral method (<i>12 pages</i>)	245102
Merzuk Kaltak, Alexander Hampel, Martin Schlipf, Indukuru Ramesh Reddy, Bongjae Kim, and Georg Kresse	
Influence of interstitial Li on the electronic properties of $\text{Li}_x\text{CsPbI}_3$ for photovoltaic and battery applications (<i>10 pages</i>)	245103
Wei Wei, Julian Gebhardt, Daniel F. Urban, and Christian Elsässer	
Characterization of fractional Chern insulator quasiparticles in twisted homobilayer MoTe_2 (<i>18 pages</i>)	245104
Zhao Liu, Bohao Li, Yuhao Shi, and Fengcheng Wu	
Spacetime supersymmetry in the truncated lattice Schwinger model (<i>10 pages</i>)	245105
Yanting Cheng and Shang Liu	
Quantization and quantum oscillations of the sublattice charge order in Dirac insulators (<i>18 pages</i>)	245106
Arindam Tarafdar and Tigran A. Sedrakyan	
High pressure–high temperature equation of state and metallization of neon by shock waves from quantum molecular dynamics (<i>11 pages</i>)	245107
D. V. Minakov, V. B. Fokin, G. S. Demyanov, and P. R. Levashov	
Ortho-para conversion of a water molecule encapsulated in a C_{60} cage induced by inelastic single-electron tunneling (<i>9 pages</i>)	245108
Shaoqing Du, Yue Tian, Kazuyuki Kuroyama, Katsushi Hashimoto, Yoshifumi Hashikawa, Yasujiro Murata, Yoshiro Hirayama, and Kazuhiko Hirakawa	
Orbital magnetization in the Nb-substituted kagome metal CsV_3Sb_5 (<i>11 pages</i>)	245109
H. J. Elmers, O. Tkach, Y. Lytvynenko, H. Agarwal, D. Biswas, J. Liu, A.-A. Haghighirad, M. Merz, S. Pakhira, G. Garbarino, T.-L. Lee, J. Demsar, G. Schönhense, M. Le Tacon, and O. Fedchenko	
Electronic modes induced by spin and charge perturbations in Mott and Kondo insulators (<i>34 pages</i>)	245110
Masanori Kohno	
<i>Ab initio</i> theory of coherent phonon damping in semimetals (<i>10 pages</i>)	245111
Yiming Pan, Christoph Emeis, Stephan Jauernik, Michael Bauer, and Fabio Caruso	

(Continued)

Conditions for enhanced scattering and field confinement in single-mode metasurface cavities (7 pages)	L241112
Pietro Brugnolo, Samel Arslanagić, and Rasmus E. Jacobsen	
Probing magnetic-field-induced multipolar ordering through field-angle-resolved magnetostriction and thermal expansion in $\text{PrIr}_2\text{Zn}_{20}$ (6 pages)	L241113
Naoki Okamoto, Yohei Kono, Takahiro Onimaru, Keisuke T. Matsumoto, Kazumasa Hattori, and Shunichiro Kittaka	
Excitons and optical response in the excitonic insulator candidate TiSe_2 (7 pages)	L241114
Dino Novko	
Magnetism-enhanced strong electron-phonon coupling in infinite-layer nickelates (8 pages)	L241115
Ruiqi Zhang, Yanyong Wang, Manuel Engel, Christopher Lane, Henrique Miranda, Lin Hou, Sugata Chowdhury, Bahadur Singh, Bernardo Barbiellini, Jian-Xin Zhu, Robert S. Markiewicz, E. K. U. Gross, Georg Kresse, Arun Bansil, and Jianwei Sun	
Topological sensing in the dynamics of quantum walks with defects (7 pages)	L241116
Xiaowei Tong, Xingze Qiu, Xiang Zhan, Quan Lin, Kunkun Wang, Franco Nori, and Peng Xue	
Charge pumps, boundary modes, and the necessity of unnecessary criticality (7 pages)	L241117
Abhishodh Prakash and S. A. Parameswaran	
Semiconductors I: bulk	
☞ Lattice thermal transport beyond the quasiparticle approximation: Nontrivial spectral competition between three- and four-phonon interactions (7 pages)	L241201
Yi Xia	
Surface physics, nanoscale physics, low-dimensional systems	
☞ Edge dependence of the supercurrent in the quantum Hall regime (6 pages)	L241401
Seong Jang, Geon-Hyoung Park, Kenji Watanabe, Takashi Taniguchi, and Gil-Ho Lee	
Femtosecond dynamics of electrons in noble metals: Orientational relaxation in momentum space and the Drude relaxation rate (7 pages)	L241402
Jonas Grumm and Andreas Knorr	
Characterizing local Majorana properties using Andreev states (7 pages)	L241403
M. Alvarado, A. Levy Yeyati, Ramón Aguado, and R. Seoane Souto	
Generalized many-body exciton g factors: Magnetic hybridization and nonmonotonic Rydberg series in monolayer WSe_2 (9 pages)	L241404
Paulo E. Faria Junior, Daniel Hernangómez-Pérez, Tomer Amit, Jaroslav Fabian, and Sivan Refaely-Abramson	
Altermagnetism and higher-order topological states in bilayer Chern insulators (8 pages)	L241405
Kehan Liu and Mingwen Zhao	
Analytical model for nonlinear magnetotransport in a viscous electron fluid (7 pages)	L241406
P. S. Alekseev and M. A. Semina	
Real-space superconducting properties in the atomically thin limit: Migdal-Eliashberg approach and its application to Josephson junctions (7 pages)	L241407
Jonas Bekaert, Mikhail Petrov, and Milorad V. Milošević	

(Continued)

LETTERS

Electronic structure and strongly correlated systems

- ☞ Quadrature for the generalized hydrodynamics equation and absence of shocks in the Lieb-Liniger model (8 pages) L241101
Friedrich Hübner and Benjamin Doyon
- Emergent fractional quantum anomalous Hall effect in a second-order topological insulator (7 pages) L241102
Hongyan Zhao, Wei Xu, Yang Xue, Wei Li, and Zhongqin Yang
- Unconventional hybrid-order topological insulators (7 pages) L241103
Wei Jia, Yuping Tian, Huanhuan Yang, Xiangru Kong, Zhi-Hao Huang, Wei-Jiang Gong, and Jun-Hong An
- Emergent $\mathcal{D}_8^{(1)}$ spectrum and topological soliton excitation in CoNb_2O_6 (6 pages) L241104
Ning Xi (西宁), Xiao Wang (王骁), Yunjing Gao (高云静), Yunfeng Jiang (江云峰),
Rong Yu (俞榕), and Jianda Wu (吴建达)
- Fractional quantum Hall edge polaritons (7 pages) L241105
Lucas Winter and Oded Zilberberg
- Room-temperature broad-band radiofrequency rectification in epitaxial SrIrO_3 films (6 pages) L241106
Liang Zhou, Zongzheng Du, Jinhua Wang, Pingbo Chen, Bicong Ye, Tao Feng, Jiahao Yang, Zehao Xiao,
Meng Yang, Junxue Li, Wenqing Zhang, Hai-Zhou Lu, and Hongtao He
- Continuous topological phase transition between $\mathbb{Z}_2$ topologically ordered phases (8 pages) L241107
Qi Zhang and Wen-Tao Xu
- Dominant Kitaev interaction and field-induced quantum disordered phase in the cobaltate $\text{Na}_2\text{Co}_2\text{TeO}_6$ (8 pages) L241108
Xu-Guang Zhou, Han Li, Chaebin Kim, Akira Matsuo, Kavita Mehlawat, Kazuki Matsui,
Zhuo Yang, Atsuhiko Miyata, Gang Su, Koichi Kindo, Je-Geun Park, Yoshimitsu Kohama,
Wei Li, and Yasuhiro H. Matsuda
- Flat band and many-body gap in chirally twisted triple bilayer graphene (6 pages) L241109
Wenlu Lin, Wenxuan Wang, Shimin Cao, Miao Liang, Lili Zhao, Kenji Watanabe, Takashi Taniguchi,
Jinhua Gao, Jianhao Chen, Xiaobo Lu, and Yang Liu
- ☞ Pristine and pseudogapped boundaries of deconfined quantum critical points (7 pages) L241110
Nayan Myerson-Jain, Xiao-Chuan Wu, and Cenke Xu
- Designing flat-band materials through compact localized state clusters (8 pages) L241111
Boyu Liu, Shixu Liu, Yuwen Zhang, Chaoyu He, Jihui Yang, and Hongjun Xiang



(Continued)



2469-9950(20251215)112:24;1-#