

# *Colloquium*: Topological band theory

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Functionals for exchange and correlation. , 2004, , 152-171.		3
2	Designing in-plane heterostructures of quantum spin Hall insulators from first principles: $T < \epsilon^2 \hat{a}^3$ with adsorbates. Physical Review B, 2016, 94, .		
3	Nonstoichiometry and Weyl fermionic behavior in TaAs. Physical Review B, 2016, 94, .	1.1	20
4	Fully gapped superconducting state in Au <sub>2</sub> Pb: A natural candidate for topological superconductor. Europhysics Letters, 2016, 116, 67002.	0.7	7
5	Universal optical conductivity of a disordered Weyl semimetal. Scientific Reports, 2016, 6, 32446.	1.6	57
6	Direct evidence of interaction-induced Dirac cones in a monolayer silicene/Ag(111) system. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14656-14661.	3.3	76
7	Positron surface state as a spectroscopic probe for characterizing surfaces of topological insulator materials. Physical Review B, 2016, 94, .	1.1	15
8	Coexistence of Weyl fermion and massless triply degenerate nodal points. Physical Review B, 2016, 94, .	1.1	169
9	Three-dimensional Dirac cone carrier dynamics in $\text{Na}_3\text{Cd}_3$ Physical Review B, 2016, 94, .		57
10	Electric-field tunable Dirac semimetal state in phosphorene thin films. Physical Review B, 2016, 94, .	1.1	36
11	Prediction of Quantum Anomalous Hall Insulator in half-fluorinated GaBi Honeycomb. Scientific Reports, 2016, 6, 31317.	1.6	12
12	Electronic properties of SnTe-class topological crystalline insulator materials. Chinese Physics B, 2016, 25, 117313.	0.7	18
13	Laser angle-resolved photoemission as a probe of initial state $k_z$ dispersion, final-state band gaps, and spin texture of Dirac states in the Bi <sub>2</sub> Te <sub>3</sub> topological insulator. Physical Review B, 2016, 94, .	1.1	3
14	Observation of the spin-polarized surface state in a noncentrosymmetric superconductor BiPd. Nature Communications, 2016, 7, 13315.	5.8	42
15	Thermoelectric effects in topological crystalline insulators. Physical Review B, 2016, 94, .	1.1	11
16	Anomalous Light Scattering by Topological PT-symmetric Particle Arrays. Scientific Reports, 2016, 6, 38049.	1.6	23
17	Synthesis and chemistry of elemental 2D materials. Nature Reviews Chemistry, 2017, 1, .	13.8	671
18	Importance of spin-orbit coupling in layered organic salts. Physical Review B, 2017, 95, .	1.1	56







#	ARTICLE	IF	CITATIONS
73	Terahertz Photoconductivity in $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ near the transition from the direct to inverted spectrum. JETP Letters, 2017, 106, 162-166.	0.4	16
74	Designing Two-Dimensional Dirac Heterointerfaces of Few-Layer Graphene and Tetradymite-Type $\text{Sb}_2\text{Te}_3$ for Thermoelectric Applications. ACS Applied Materials & Interfaces, 2017, 9, 42050-42057.	4.0	14
75	Photoinduced $\text{SU}(3)$ topological material of spinless fermions. Physical Review B, 2017, 95, .	1.1	7
76	Evolution of the topologically protected surface states in superconductor $\text{Bi}_2\text{Pd}$ from the three-dimensional to the two-dimensional limit. Journal of Physics Condensed Matter, 2017, 29, 325501.	0.7	14
77	d Orbital Topological Insulator and Semimetal in the Antifluorite $\text{Cu}_2\text{S}$ Family: Contrasting Spin Helicities, Nodal Box, and Hybrid Surface States. Journal of Physical Chemistry Letters, 2017, 8, 3506-3511.	2.1	65
78	Majorana Zero Modes Protected by a Hopf Invariant in Topologically Trivial Superconductors. Physical Review Letters, 2017, 118, 147003.	2.9	28
79	Mechanical topological semimetals with massless quasiparticles and a finite Berry curvature. Physical Review B, 2017, 95, .	1.1	10
80	Nodal-link semimetals. Physical Review B, 2017, 96, .	1.1	232
81	Topological defects in Floquet systems: Anomalous chiral modes and topological invariant. Physical Review B, 2017, 95, .	1.1	10
82	Interacting Weyl fermions: Phases, phase transitions, and global phase diagram. Physical Review B, 2017, 95, .	1.1	107
83	Characterization of Thin Film Materials using SCAN meta-GGA, an Accurate Nonempirical Density Functional. Scientific Reports, 2017, 7, 44766.	1.6	54
84	Symmetry-based indicators of band topology in the 230 space groups. Nature Communications, 2017, 8, 50.	5.8	524
85	Topological phase transition due to strain-controlled evolution of the inverted bands in $\text{Bi}_2\text{Te}_3$ . Physical Review B, 2017, 95, .	1.1	16
86	Resolving the one-dimensional singularity edge states of $\text{Bi}(111)$ thin films. Journal of Physics Condensed Matter, 2017, 29, 185002.	0.7	7
87	Tunable Intrinsic Plasmons due to Band Inversion in Topological Materials. Physical Review Letters, 2017, 119, 266804. <a href="#">Electronic structure and x-ray magnetic circular dichroism in Mn-doped topological insulators</a>	2.9	15
88	$\text{Bi}_2\text{Te}_3$ and $\text{Bi}_2\text{Se}_3$	1.1	11
89	Prediction of Ideal Topological Semimetals with Triply Degenerate Points in the $\text{NaCu}_3\text{P}_2\text{S}_6$ . Physical Review Letters, 2017, 119, 256402.	2.9	36
90	Quantum spin Hall and quantum valley Hall effects in trilayer graphene and their topological structures. Chinese Physics B, 2017, 26, 127304.	0.7	9

#	ARTICLE	IF	CITATIONS
91	Phase diagrams in materials science of topological insulators based on metal chalcogenides. Russian Journal of Inorganic Chemistry, 2017, 62, 1703-1729.	0.3	51
92	Class of diatomic ferroelectrics with multifunctional properties: IV-VI compounds in the distorted NiAs-type structure. Physical Review B, 2017, 96, .	1.1	4
93	Photoelectric effects in Hg <sub>1-x</sub> Cd <sub>x</sub> Te films in the terahertz spectral range. , 2017, .		0
94	Formation of Surface and Quantum-Well States in Ultra Thin Pt Films on the Au(111) Surface. Materials, 2017, 10, 1409.	1.3	5
95	Electron energy relaxation under terahertz excitation in (Cd <sub>1-x</sub> Zn <sub>x</sub> ) <sub>3</sub> As <sub>2</sub> Dirac semimetals. Beilstein Journal of Nanotechnology, 2017, 8, 167-171.	1.5	17
96	L lines, C points and Chern numbers: understanding band structure topology using polarization fields. New Journal of Physics, 2017, 19, 115013.	1.2	29
97	Structural and electronic properties of hydrogenated GaBi and InBi honeycomb monolayers with point defects. RSC Advances, 2018, 8, 7022-7028.	1.7	9
98	High-pressure phases of Weyl semimetals NbP, NbAs, TaP, and TaAs. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	2.0	16
99	Molecule-Adsorbed Topological Insulator and Metal Surfaces: A Comparative First-Principles Study. Chemistry of Materials, 2018, 30, 1849-1855.	3.2	10
100	Dynamical topological invariant after a quantum quench. Physical Review B, 2018, 97, .	1.1	68
101	Pauli metallic ground state in Hubbard clusters with Rashba spin-orbit coupling. Physical Review B, 2018, 97, .	1.1	5
102	Quantum spin Hall insulator with a large bandgap, Dirac fermions, and bilayer graphene analog. Science Advances, 2018, 4, eaap7529.	4.7	32
103	Momentum space topology of QCD. Annals of Physics, 2018, 393, 264-287.	1.0	13
104	Quantum-metric contribution to the pair mass in spin-orbit-coupled Fermi superfluids. Physical Review A, 2018, 97, .	1.0	22
105	Topological Band Theory for Non-Hermitian Hamiltonians. Physical Review Letters, 2018, 120, 146402.	2.9	768
106	Colloquium : Strong-field phenomena in periodic systems. Reviews of Modern Physics, 2018, 90, .	16.4	192
107	Magnetic properties of type-I and type-II Weyl semimetals in the superconducting state. Physical Review B, 2018, 97, .	1.1	15
108	Light-Induced Type-II Band Inversion and Quantum Anomalous Hall State in Monolayer FeSe. Physical Review Letters, 2018, 120, 156406.	2.9	35

#	ARTICLE	IF	CITATIONS
109	Impact of high-frequency pumping on anomalous finite-size effects in three-dimensional topological insulators. <i>Physical Review B</i> , 2018, 97, .	1.1	9
110	Formation of Bi <sub>2</sub> Se <sub>3</sub> Phases Upon Annealing of the Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> : Stabilization of In-Depth Bismuth Bilayers. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 954-960.	2.1	10
111	Coexistent three-component and two-component Weyl phonons in TiS, ZrSe, and HfTe. <i>Physical Review B</i> , 2018, 97, . <a href="#">Saddle-like topological surface states on the</a>	1.1	75
112	<a href="#">xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;&lt;mml:mrow&gt;&lt;mml:mi&gt;T&lt;/mml:mi&gt;&lt;mml:msup&gt;&lt;mml:mi&gt;T&lt;/mml:mi&gt;&lt;mml:m</a>		



#	ARTICLE	IF	CITATIONS
127	Hybrid nodal loop metal: Unconventional magnetoresponse and material realization. Physical Review B, 2018, 97, .	1.1	75
128	Topological quantization of energy transport in micromechanical and nanomechanical lattices. Physical Review B, 2018, 97, .	1.1	20
129	Highly anisotropic type-II nodal line state in pure titanium metal. Applied Physics Letters, 2018, 112, .	1.5	30
130	Nodal surface semimetals: Theory and material realization. Physical Review B, 2018, 97, .	1.1	248
131	Hot carrier relaxation in three dimensional gapped Dirac semi-metals. Journal Physics D: Applied Physics, 2018, 51, 015101.	1.3	10
132	Signature of the chiral anomaly in ballistic Weyl junctions. JPhys Materials, 2018, 1, 015008.	1.8	2
133	A high-throughput data analysis and materials discovery tool for strongly correlated materials. Npj Computational Materials, 2018, 4, .	3.5	17
134	Topological quantum matter with cold atoms. Advances in Physics, 2018, 67, 253-402.	35.9	198
135	Molecular Beam Epitaxy of Hybrid Topological Insulator/Ferromagnetic Heterostructures and Devices. , 2018, , 421-442.		1
136	Chemically driven surface effects in polar intermetallic topological insulators A3Bi. Physical Chemistry Chemical Physics, 2018, 20, 26372-26385.	1.3	4
137	Influence of Crystal Structure and 3d Impurities on the Electronic Structure of the Topological Material Cd3As2. Inorganic Materials, 2018, 54, 1093-1098.	0.2	11
138	Fermi arc engineering at the interface between two Weyl semimetals. Physical Review B, 2018, 98, .	1.1	8
139	Spin-current density-functional theory for a correct treatment of spin-orbit interactions and its application to topological phase transitions. Physical Review B, 2018, 98, .	1.1	18
140	Pseudo Dirac nodal sphere semimetal. Physical Review B, 2018, 98, .	1.1	29
141	Topological Hourglass Dirac Semimetal in the Nonpolar Phase of $\text{Ag}_2\text{BiO}_3$ . Physical Review Letters, 2018, 121, 226401.	2.9	33
142	Recipe for Dirac Phonon States with a Quantized Valley Berry Phase in Two-Dimensional Hexagonal Lattices. Nano Letters, 2018, 18, 7755-7760.	4.5	54
143	Topological Spin Excitations in Honeycomb Ferromagnet $\text{CrI}_3$ . Physical Review X, 2018, 8, .	2.8	188
144	Precision mapping the topological bands of 2D spin-orbit coupling with microwave spin-injection spectroscopy. Science Bulletin, 2018, 63, 1464-1469.	4.3	3

#	ARTICLE	IF	CITATIONS
145	Topologically nontrivial phase in the hexagonal antiperovskites $A_3B_3X_3$ ( $A$ )	1.1	9

Review B, 2018, 98, .

146 Hall conductance of a non-Hermitian Chern insulator. Physical Review B, 2018, 98, .

1.1

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Relativistic splitting of surface states at Si-terminated surfaces of the layered intermetallic compounds

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#	ARTICLE	IF	CITATIONS
165	Electric Polarization. , 0 , , 141-200.		1
166	Topological Insulators and Semimetals. , 0 , , 201-275.		0
167	Orbital Magnetization and Axion Coupling. , 0 , , 276-315.		0
174	From Birefringent Electrons to a Marginal or Non-Fermi Liquid of Relativistic Spin- $\frac{1}{2}$ Fermions: An Emergent Superuniversality. Physical Review Letters, 2018, 121, 157602.	2.9	25
175	Topological Properties of Gapped Graphene Nanoribbons with Spatial Symmetries. Nano Letters, 2018, 18, 7254-7260.	4.5	27
176	Nearly triple nodal point topological phase in half-metallic GdN. Physical Review B, 2018, 98, .	1.1	17
177	First-Principles Quantum Transport Modeling of Spin-Transfer and Spin-Orbit Torques in Magnetic Multilayers. , 2018, , 1-35.		6
178	Topological bosonic states on ribbons of a honeycomb lattice. Physical Review A, 2018, 98, .	1.0	2
179	Recent Advances in van der Waals Heterojunctions Based on Semiconducting Transition Metal Dichalcogenides. Advanced Electronic Materials, 2018, 4, 1800270.	2.6	25
180	Fundamentally fastest optical processes at the surface of a topological insulator. Physical Review B, 2018, 98, .	1.1	14
181	Non-equilibrium electron transport induced by terahertz radiation in the topological and trivial phases of Hg <sub>1-x</sub> Cd <sub>x</sub> Te. Beilstein Journal of Nanotechnology, 2018, 9, 1035-1039.	1.5	25
182	Bulk and edge-state arcs in non-Hermitian coupled-resonator arrays. Physical Review A, 2018, 98, .	1.0	34
183	Growth of a predicted two-dimensional topological insulator based on InBi-Si(111)- Physical Review B, 2018, 98, .	1.1	22
184	Spin-orbit interaction in unoccupied surface states. Progress in Surface Science, 2018, 93, 177-188.	3.8	5
185	Dirac plasmons and beyond: the past, present, and future of plasmonics in 3D topological insulators. MRS Communications, 2018, 8, 782-794.	0.8	20
186	Photonics meets topology. Optics Express, 2018, 26, 24531.	1.7	99
187	Quadratic contact point semimetal: Theory and material realization. Physical Review B, 2018, 98, .	1.1	57
188	Tight-binding piezoelectric theory and electromechanical coupling correlations for transition metal dichalcogenide monolayers. Physical Review B, 2018, 98, .	1.1	12

#	ARTICLE	IF	CITATIONS
189	Diluted magnetic Dirac-Weyl materials: Susceptibility and ferromagnetism in three-dimensional chiral gapless semimetals. <i>Physical Review B</i> , 2018, 98, .	1.1	8
190	Resonant interaction of slow light solitons and dispersive waves in nonlinear chiral photonic waveguide. <i>New Journal of Physics</i> , 2018, 20, 053065.	1.2	5
191	Flux growth and magneto-transport properties of cubic antiperovskite $\text{Ca}_3\text{PbO}$ single crystals. <i>Materials Research Bulletin</i> , 2018, 106, 1-6.	2.7	3
192	Exact edge, bulk, and bound states of finite topological systems. <i>Physical Review B</i> , 2018, 97, .	1.1	25
193	Spoof Plasmonics: From Metamaterial Concept to Topological Description. <i>Advanced Materials</i> , 2018, 30, e1706683.	11.1	111
194	Exposing the quantum geometry of spin-orbit-coupled Fermi superfluids. <i>Physical Review A</i> , 2018, 97, .	1.0	13
195	Signature of Fermi arc surface states in Andreev reflection at the $\text{WTe}_2$ Weyl semimetal surface. <i>Europhysics Letters</i> , 2018, 122, 27004.	0.7	33
196	Nodal loop and nodal surface states in the family of materials. <i>Physical Review B</i> , 2018, 97, .	1.1	15
197	van der Waals Metallic Transition Metal Dichalcogenides. <i>Chemical Reviews</i> , 2018, 118, 6297-6336.	23.0	252
198	Discovery of coexisting Dirac and triply degenerate magnons in a three-dimensional antiferromagnet. <i>Nature Communications</i> , 2018, 9, 2591.	5.8	62
199	Ultrafast Electron Dynamics in Topological Materials. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800228.	1.2	9
200	Topological Insulator GMR Straintronics for Low-Power Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28789-28795.	4.0	2
201	Anisotropic transverse magnetoresistance and Fermi surface in $\text{TaSb}_2$ . <i>Scientific Reports</i> , 2018, 8, 10527.	1.6	17
202	A topological phase transition in topological insulator thin films exposed to an off-resonant light and its associated topological configuration. <i>Physica B: Condensed Matter</i> , 2018, 547, 72-78.	1.3	3
203	Tunable double-Weyl Fermion semimetal state in the $\text{SrSi}_2$ materials class. <i>Scientific Reports</i> , 2018, 8, 10540.	1.6	30
204	Large anomalous Hall current induced by topological nodal lines in a ferromagnetic van der Waals semimetal. <i>Nature Materials</i> , 2018, 17, 794-799.	13.3	346
205	Topological spin excitations in a three-dimensional antiferromagnet. <i>Nature Physics</i> , 2018, 14, 1011-1015.	6.5	77
206	Type-II Dirac Photons at Metasurfaces. <i>Physical Review Letters</i> , 2018, 121, 024301.	2.9	34

#	ARTICLE	IF	CITATIONS
207	Biorthogonal Bulk-Boundary Correspondence in Non-Hermitian Systems. <i>Physical Review Letters</i> , 2018, 121, 026808.	2.9	799
208	Realization of a Double-Slit SQUID Geometry by Fermi Arc Surface States in a WTe <sub>2</sub> Weyl Semimetal. <i>JETP Letters</i> , 2018, 107, 774-779.	0.4	17
209	Dirac Cones and Nodal Line in Borophene. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2757-2762.	2.1	56
210	Topologically protected states in $\hat{\nu}$ -doped junctions with band inversion. <i>Physical Review B</i> , 2018, 98, .	1.1	2
211	Type I superconductivity in Dirac materials. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 335403.	0.7	10
212	Electronic optics in graphene in the semiclassical approximation. <i>Annals of Physics</i> , 2018, 397, 65-135.	1.0	25
213	Discovery of Two-Dimensional Quantum Spin Hall Effect in Triangular Transition-Metal Carbides. <i>Chinese Physics Letters</i> , 2018, 35, 087303.	1.3	6
214	Spin-mixing-tunneling network model for Anderson transitions in two-dimensional disordered spinful electrons. <i>New Journal of Physics</i> , 2018, 20, 083017.	1.2	1
215	Spin-orbit coupling driven crossover from a starfruitlike nodal semimetal to Dirac and Weyl semimetal state in CaAuAs. <i>Physical Review B</i> , 2018, 98, .	1.1	29
216	Edge States and Topological Invariants of Non-Hermitian Systems. <i>Physical Review Letters</i> , 2018, 121, 086803.	2.9	1,148
217	Topological magnons in a one-dimensional itinerant flatband ferromagnet. <i>Physical Review B</i> , 2018, 97, .	1.1	14
218	Discovery of highly spin-polarized conducting surface states in the strong spin-orbit coupling semiconductor Sb <sub>2</sub> Se <sub>3</sub> . <i>Physical Review B</i> , 2018, 97, .	1.1	6
219	Symmetry-Protected Ideal Type-II Weyl Phonons in CdTe. <i>Physical Review Letters</i> , 2019, 123, 065501.	2.9	86
220	Floquet topological acoustic resonators and acoustic Thouless pumping. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 742-747.	0.5	21
221	Understanding one-dimensional topological Kondo insulator: poor man's non-uniform antiferromagnetic mean-field theory versus quantum Monte Carlo simulation. <i>European Physical Journal B</i> , 2019, 92, 1.	0.6	1
222	Two-Dimensional Quadrupole Topological Insulator in $\hat{\nu}$ <sup>3</sup> -Graphyne. <i>Nano Letters</i> , 2019, 19, 6492-6497.	4.5	74
223	Three-dimensional graphene networks modified with acetylenic linkages for high-performance optoelectronics and Li-ion battery anode material. <i>Carbon</i> , 2019, 154, 478-484.	5.4	10
224	Two-dimensional Weyl half-semimetal and tunable quantum anomalous Hall effect. <i>Physical Review B</i> , 2019, 100, .	1.1	101

#	ARTICLE	IF	CITATIONS
225	Berry curvature induced thermopower in type-I and type-II Weyl semimetals. Physical Review B, 2019, 100, .	1.1	31
226	Evidence of a purely electronic two-dimensional lattice at the interface of TMD/Bi <sub>2</sub> Se <sub>3</sub> heterostructures. Nanoscale, 2019, 11, 15929-15938.	2.8	21
227	$Z^2$ topological quantum paramagnet on a honeycomb bilayer. Physical Review B, 2019, 100, .	1.1	15
228	Propagation and Localization of Collective Excitations on a 24-Qubit Superconducting Processor. Physical Review Letters, 2019, 123, 050502.	2.9	87
229	Studying the topological properties of Half-Heusler NaAuS compound. AIP Conference Proceedings, 2019, . .	0.3	0
230	Topological band theory for non-Hermitian systems from the Dirac equation. Physical Review B, 2019, 100, .	1.1	50
231	Ground states of Au <sub>2</sub> Pb and pressure-enhanced superconductivity. Physical Review B, 2019, 100, .	1.1	9
232	A methodical study of quantum phase engineering in topological crystalline insulator SnTe and related alloys. Physical Chemistry Chemical Physics, 2019, 21, 21633-21650.	1.3	13
233	Topological vortex phase transitions in iron-based superconductors. Science Bulletin, 2019, 64, 1207-1214.	4.3	20
234	Non-Bloch topological invariants in a non-Hermitian domain wall system. Physical Review B, 2019, 100, .	1.1	123
235	Edge states in the honeycomb reconstruction of two-dimensional silicon nanosheets. Applied Physics Letters, 2019, 115, 023102.	1.5	3
236	Quasi-1D Topological Nodal Vortex Line Phase in Doped Superconducting 3D Dirac Semimetals. Physical Review Letters, 2019, 123, 027003.	2.9	33
237	Structural, elastic, and electronic properties of topological semimetal WC-type MX family by first-principles calculation*. Chinese Physics B, 2019, 28, 077105.	0.7	10
238	Realization of versatile electronic, magnetic properties and new topological phases in hydrogenated bismuthene. Electronic Structure, 2019, 1, 025003.	1.0	2
239	Exact solution to the Haldane-BCS-Hubbard model along the symmetric lines: Interaction-induced topological phase transition. Physical Review B, 2019, 99, .	1.1	7
240	Topological Semimetals from First Principles. Annual Review of Materials Research, 2019, 49, 153-183.	4.3	154
241	Multiple scattering theory of non-Hermitian sonic second-order topological insulators. Communications Physics, 2019, 2, .	2.0	21
242	Topological valley, pseudospin, and pseudospin-valley protected edge states in symmetric pillared phononic crystals. Physical Review B, 2019, 100, .	1.1	35

#	ARTICLE	IF	CITATIONS
243	Inversion symmetric non-Hermitian Chern insulator. Physical Review B, 2019, 100, .	1.1	29
244	Topological nodal lines and hybrid Weyl nodes in YCoC2. APL Materials, 2019, 7, 101109.	2.2	17
245	Hydrogenated-Graphene-Encapsulated Graphene: A Versatile Material for Device Applications. ACS Omega, 2019, 4, 17494-17503.	1.6	3
246	Fano effect in Aharonov-Bohm ring with topologically superconducting bridge. Journal of Physics Condensed Matter, 2019, 31, 225301.	0.7	8
247	Two-dimensional topological materials discovery by symmetry-indicator method. Physical Review B, 2019, 100, .	1.1	29
248	Resolving the topological classification of bismuth with topological defects. Science Advances, 2019, 5, eaax6996.	4.7	59
249	Topological phases in pyrochlore thallium niobate $Tl_2Nb_2O_6+x$ . Npj Computational Materials, 2019, 5, .	3.5	11
250	Topological crystalline insulator state with type-II Dirac fermions in transition metal dipnictides. Physical Review B, 2019, 100, .	1.1	13
251	Diagonal entropy and topological phase transitions in extended Kitaev chains. Annals of Physics, 2019, 411, 167967.	1.0	2
252	Emergent Magnetic State in (111)-Oriented Quasi-Two-Dimensional Spinel Oxides. Nano Letters, 2019, 19, 8381-8387.	4.5	10
253	Distinguishing the Topological Zero Mode and Tamm Mode in a Microwave Waveguide Array. Annalen Der Physik, 2019, 531, 1900347.	0.9	10
254	Topological Anderson insulator phase in a quasicrystal lattice. Physical Review B, 2019, 100, .	1.1	29
255	Ferromagnetic phase transition in topological crystalline insulator thin films: Interplay of anomalous Hall angle and magnetic anisotropy. Physical Review B, 2019, 100, .	1.1	11
256	Interaction-driven topological phase transition in a $p$ -orbital $Z_2$ gauge theories coupled to topological fermions: $N$ QED $2+1$ with a quantum mechanical $\hat{J}_z$ angle. Physical R	1.0	3
257		1.1	29
258	Giant optical activity and Kerr effect in type-I and type-II Weyl semimetals. Physical Review B, 2019, 100, .	1.1	47
259	Topological edge states in the Su-Schrieffer-Heeger model. Physical Review B, 2019, 100, .	1.1	86
260	The theoretical development and prospect of two-dimensional topological insulators. Journal of Physics: Conference Series, 2019, 1187, 042019.	0.3	0

#	ARTICLE	IF	CITATIONS
261	Electronic structure, Fermi surface and x-ray magnetic circular dichroism in the CeAgSb <sub>2</sub> . Low Temperature Physics, 2019, 45, 870-879.	0.2	1
262	Symmetry-protected metallic and topological phases in penta-materials. Scientific Reports, 2019, 9, 12754.	1.6	10
263	Multiple fermions in MoP. Modern Physics Letters B, 2019, 33, 1950293.	1.0	0
264	Josephson signatures of Weyl node creation and annihilation in irradiated Dirac semimetals. Physical Review B, 2019, 100, .	1.1	8
265	Tunable skyrmion-skyrmion binding on the surface of a topological insulator. Physical Review B, 2019, 100, .	1.1	9
266	Predicting two-dimensional topological phases in Janus materials by substitutional doping in transition metal dichalcogenide monolayers. Npj 2D Materials and Applications, 2019, 3, .	3.9	53
267	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. Science, 2019, 365, 1278-1281.	6.0	374
268	Review of Electron-Electron Interaction Effects in Planar Dirac Liquids. Theoretical and Mathematical Physics(Russian Federation), 2019, 200, 1222-1236.	0.3	4
269	Surface electronic structure of bismuth oxychalcogenides. Physical Review B, 2019, 100, .	1.1	18
270	Magnetically controllable topological quantum phase transitions in the antiferromagnetic topological insulator $\text{MnBi}_2\text{Te}_4$ . Physical Review B, 2019, 100, .	1.1	93
271	Non-Hermitian topology of spontaneous magnon decay. Physical Review B, 2019, 100, .	1.1	61
272	Observation of a topological nodal-line semimetal in $\text{YbMnSb}_2$ through optical spectroscopy. Physical Review B, 2019, 100, .	1.1	20
273	Band Topology of Bismuth Quantum Films. Crystals, 2019, 9, 510.	1.0	20
274	Topological properties of the inhomogeneous Kitaev chain. Materials Today: Proceedings, 2019, 14, 13-17.	0.9	0
275	Synthesis and characterization of a single-layer conjugated metal-organic structure featuring a non-trivial topological gap. Nanoscale, 2019, 11, 878-881.	2.8	37
276	Topological states in amorphous magnetic photonic lattices. Physical Review B, 2019, 99, .	1.1	34
277	Two-dimensional honeycomb borophene oxide: strong anisotropy and nodal loop transformation. Nanoscale, 2019, 11, 2468-2475.	2.8	84
278	Bulk defects and surface state dynamics in topological insulators: The effects of electron beam irradiation on the ultrafast relaxation of Dirac fermions in Bi <sub>2</sub> Te <sub>3</sub> . Journal of Applied Physics, 2019, 125, .	1.1	8



#	ARTICLE	IF	CITATIONS
279	Symmetry-protected nodal phases in non-Hermitian systems. Physical Review B, 2019, 99, .	1.1	183
280	Chiral anomaly and nontrivial Berry phase in the topological nodal-line semimetal $\text{SrA}_3\text{S}$ . Physical Review B, 2019, 99, .	1.1	23
281	Quaternary Heusler alloy: An ideal platform to realize triple point fermions. Physical Review B, 2019, 99, .	1.1	33
282	Spin-Polarization Control Driven by a Rashba-Type Effect Breaking the Mirror Symmetry in Two-Dimensional Dual Topological Insulators. Physical Review Letters, 2019, 122, 036401.	2.9	25
283	Calculated magnetic exchange interactions in the Dirac magnon material $\text{CuMn}_2\text{Te}_2$ . Physical Review B, 2019, 99, .	1.3	22
284	Topologically nontrivial phase and tunable Rashba effect in half-oxidized bismuthene. Physical Chemistry Chemical Physics, 2019, 21, 2899-2909.	1.3	10
285	Spin-dependent scattering induced negative magnetoresistance in topological insulator $\text{Bi}_2\text{Te}_3$ nanowires. Scientific Reports, 2019, 9, 7836.	1.6	16
286	Helium Surface Interaction and Electronic Corrugation of $\text{Bi}_2\text{Se}_3(111)$ . Journal of Physical Chemistry C, 2019, 123, 17829-17841.	1.5	8
287	Effect of the chiral anomaly on circular dichroism and Hall angle in doped and tilted Weyl semimetals. Physical Review B, 2019, 99, .	1.1	5
288	Quantum Interference Theory of Magnetoresistance in Dirac Materials. Physical Review Letters, 2019, 122, 246601.	2.9	21
289	Topological superconductivity in a $\text{Bi}_2\text{Te}_3/\text{NbSe}_2$ heterostructure: A review*. Chinese Physics B, 2019, 28, 067403.	0.7	15
290	Topological phase transition induced by $p_x$ and $p_z$ band inversion in a honeycomb lattice. Nanoscale, 2019, 11, 13807-13814.	2.8	9
291	Quantum anomalous Hall effect and gate-controllable topological phase transition in layered $\text{EuCd}_2$ . Physical Review B, 2019, 99, .	1.1	32
292	Topological Phase Transition in non-Hermitian Quasicrystals. Physical Review Letters, 2019, 122, 237601.	2.9	253
293	Emergence of asymmetric fermionic order in interacting birefringent fermions. Physical Review B, 2019, 99, .	1.1	1
294	Emerging two-dimensional monoelemental materials (Xenes) for biomedical applications. Chemical Society Reviews, 2019, 48, 2891-2912.	18.7	482
295	Two- and one-dimensional quantum spin Hall states in stanene-functionalized GaTe and InTe matrices. Journal of Materials Chemistry C, 2019, 7, 7929-7937.	2.7	2
296	Photonic Weyl semimetals in two-dimensional dielectric arrays. Japanese Journal of Applied Physics, 2019, 58, SDDD01.	0.8	2



#	ARTICLE	IF	CITATIONS
315	Transport properties of topological nodal-line semimetal candidate CaAs <sub>3</sub> under hydrostatic pressure. Chinese Physics B, 2019, 28, 046202.	0.7	5
316	Impurity potential induced gap at the Dirac point of topological insulators with in-plane magnetization. Physical Review B, 2019, 99, .	1.1	2
317	Purely rotational symmetry-protected topological crystalline insulator $\hat{\Gamma}_4$ -Bi <sub>4</sub> Br <sub>4</sub> . 2D Materials, 2019, 6, 031004.	2.0	41
318	Linear magnetochiral transport in tilted type-I and type-II Weyl semimetals. Physical Review B, 2019, 99, .	1.1	70
319	Electrostatic formation of the Majorana quasiparticles in the quantum dot-nanoring structure. Journal of Physics Condensed Matter, 2019, 31, 185302.	0.7	11
320	From DFT to machine learning: recent approaches to materials science—a review. JPhys Materials, 2019, 2, 032001.	1.8	385
321	Topological edge states induced by the Zak phase in $A_3B$ monolayers. Physical Review B, 2019, 99, .	1.1	12
322	Unraveling materials Berry curvature and Chern numbers from real-time evolution of Bloch states. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4135-4140.	3.3	20
323	Topological superconductivity of spin- $\frac{1}{2}$ carriers in a three-dimensional doped Luttinger semimetal. Physical Review B, 2019, 99, .	1.1	12
324	Weyl-loop half-metal in $Li_1-xMn_2x$ Physical Review B, 2019, 99, .	1.1	12
325	Spin Wave Effects in Transport between a Ferromagnet and a Weyl Semimetal Surface. JETP Letters, 2019, 109, 180-184.	0.4	3
326	Superconductivity in Topological Semimetal $\hat{\Gamma}_4$ -TaN at High Pressure $\times 10^4$ . Chinese Physics Letters, 2019, 36, 087401.	1.3	10
327	Topological current for transverse electrical and thermal conductivity in thermoelectric effect. Journal of Physics Communications, 2019, 3, 115020.	0.5	0
328	Formation of the Magnetic Order in Three-Dimensional Topological Insulators for the Quantum Anomalous Hall Effect (Scientific Summary). JETP Letters, 2019, 110, 771-784.	0.4	10
329	Electron-phonon interaction on the (110) surface of Ag and Cu. Advances in Quantum Chemistry, 2019, 80, 199-223.	0.4	0
330	Surface electronic structure of the wide band gap topological insulator $PbBi_4$ Physical Review B, 2019, 100, .	1.1	12
331	Spherical topological insulator nanoparticles: Quantum size effects and optical transitions. Physical Review B, 2019, 100, .	1.1	20
332	Two-Dimensional Second-Order Topological Insulator in Graphdiyne. Physical Review Letters, 2019, 123, 256402.	2.9	193

#	ARTICLE	IF	CITATIONS
333	Topological transitions in a model for proximity-induced superconductivity. Physical Review B, 2019, 100, .	1.1	3
334	Magnetization-governed magnetoresistance anisotropy in the topological semimetal CeBi. Physical Review B, 2019, 100, .	1.1	10
335	Observation of bulk states and spin-polarized topological surface states in transition metal dichalcogenide Dirac semimetal candidate $\text{NiTe}_2$ . Physical Review B, 2019, 100, .	1.1	56
336	Saddle-point Van Hove singularity and dual topological state in $\text{Pt}_2\text{Te}_3$ . Physical Review B, 2019, 100, .	1.1	1
337	Spontaneous topological transitions in a honeycomb lattice of exciton-polariton condensates due to spin bifurcations. Physical Review B, 2019, 100, .	1.1	14
338	Resistance fluctuation spectroscopy of thin films of 3D topological insulator $\text{BiSbTeSe}_1.6$ . Applied Physics Letters, 2019, 115, .	1.5	3
339	Constraints on the energy spectrum of non-Hermitian models in open environments. European Physical Journal B, 2019, 92, 1.	0.6	1
340	Topological nodal lines and nodal points in the antiferromagnetic material $\text{Fe}_2\text{PO}_5$ . Journal of Materials Chemistry C, 2019, 7, 12657-12663.	2.7	50
341	Topological phase transition in mechanical honeycomb lattice. Journal of the Mechanics and Physics of Solids, 2019, 122, 54-68.	2.3	119
342	Dynamical polarization in a graphene-topological-insulator heterostructure. Materials Research Express, 2019, 6, 045603.	0.8	0
343	Stable bismuth sub-monolayer termination of $\text{Bi}_2\text{Se}_3$ . Applied Surface Science, 2019, 476, 701-705.	3.1	4
344	Symmetry-protected topological phases in lattice gauge theories: Topological $\text{QED}^2$ . Physical Review D, 2019, 99, .	1.6	40
345	Finite temperature physics of 1D topological Kondo insulator: Stable Haldane phase, emergent energy scale and beyond. Frontiers of Physics, 2019, 14, 1.	2.4	4
346	The anisotropic effect of hexagonal warping on the transport. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 237-242.	0.9	2
347	Iodine Adsorption on $\text{Bi}_2\text{Se}_3$ Topological Insulator. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800460.	1.2	2
348	Survey of electronic structure of Bi and Sb thin films by first-principles calculations and photoemission measurements. Journal of Physics and Chemistry of Solids, 2019, 128, 109-117.	1.9	11
349	Topological critical materials of ternary compounds. Journal of Physics and Chemistry of Solids, 2019, 128, 218-224.	1.9	4
350	Kondo effect in a two-dimensional topological insulator: Exact results for adatom impurities. Journal of Physics and Chemistry of Solids, 2019, 128, 202-206.	1.9	3

#	ARTICLE	IF	CITATIONS
351	Spin filtering in silicene by edges and chemically or electrically induced interfaces. Journal of Physics and Chemistry of Solids, 2019, 128, 316-324.	1.9	1
352	Modern theory of orbital magnetic moment in solids. Journal of Physics and Chemistry of Solids, 2019, 128, 87-108.	1.9	11
353	Topological Phononics: From Fundamental Models to Real Materials. Advanced Functional Materials, 2020, 30, 1904784.	7.8	143
354	First-principles calculations of charge carrier mobility and conductivity in bulk semiconductors and two-dimensional materials. Reports on Progress in Physics, 2020, 83, 036501.	8.1	176
355	Advances of 2D bismuth in energy sciences. Chemical Society Reviews, 2020, 49, 263-285.	18.7	138
356	Spin-orbit coupling-induced band inversion and spin Chern insulator phase in plumbene and stanene. Current Applied Physics, 2020, 20, 413-418.	1.1	10
357	Recent developments in emerging two-dimensional materials and their applications. Journal of Materials Chemistry C, 2020, 8, 387-440.	2.7	501
358	Aperiodic topological crystalline insulators. Physical Review B, 2020, 101, .	1.1	13
359	Three-dimensional Weyl hourglass networks in the nonsymmorphic half-metal $Mg_{2}Sn$ . Physical Review B, 2020, 102, .		
360	Axion physics in condensed-matter systems. Nature Reviews Physics, 2020, 2, 682-696.	11.9	74
361	The Rashba Scale: Emergence of Band Anti-crossing as a Design Principle for Materials with Large Rashba Coefficient. Matter, 2020, 3, 145-165.	5.0	21
362	Theory of magnetotransport in shaped topological insulator nanowires. Physical Review B, 2020, 102, .	1.1	2
363	Tunable electronic properties of the dynamically stable layered mineral Pt <sub>2</sub> HgSe <sub>3</sub> (Jacutingaite). Physical Chemistry Chemical Physics, 2020, 22, 24471-24479.	1.3	18
364	Floquet topological phases of non-Hermitian systems. Physical Review B, 2020, 102, .	1.1	61
365	Electrical conductivity of statically perturbed topological crystalline insulators. Journal Physics D: Applied Physics, 2020, 53, 425301.	1.3	1
366	Pressure and inversion symmetry breaking field-driven first-order phase transition and formation of Dirac circle in perovskites. Physical Review B, 2020, 102, .	1.1	9
367	Topologically protected spin diffusion and spin generator using chalcogenide superlattices. Npj 2D Materials and Applications, 2020, 4, .	3.9	8
368	Dual topological insulator device with disorder robustness. Physical Review B, 2020, 102, .	1.1	11

#	ARTICLE	IF	CITATIONS
369	Giant Photonic Response of Mexican-Hat Topological Semiconductors for Mid-infrared to Terahertz Applications. Journal of Physical Chemistry Letters, 2020, 11, 6119-6126.	2.1	18
370	Topological semimetals from the perspective of first-principles calculations. Journal of Applied Physics, 2020, 128, .	1.1	15
371	Effect of Sn Doping on Surface States of Bi <sub>2</sub> Se <sub>3</sub> Thin Films. Journal of Physical Chemistry C, 2020, 124, 27082-27088.	1.5	12
372	Temperature-dependent electronic structure in a higher-order topological insulator candidate <math xmlns:mml="http://www.w3.org/1998/Math/MathML" >EuIn</math> Physical Review B, 2020, 102, .	1.1	30
373	Engineering the topological state transfer and topological beam splitter in an even-sized Su-Schrieffer-Heeger chain. Physical Review A, 2020, 102, .	1.0	39
374	Palladium oxide: an excellent topological electronic material with 0-D and 1-D band crossings and definite nontrivial surface states. Physical Chemistry Chemical Physics, 2020, 22, 18447-18453.	1.3	2
375	Advances on topological materials. Frontiers of Physics, 2020, 15, 1.	2.4	8
376	Universal Approach to Magnetic Second-Order Topological Insulator. Physical Review Letters, 2020, 125, 056402.	2.9	91
377	Magnetotransport properties of the topological nodal-line semimetal CaCdSn. Physical Review B, 2020, 102, .	1.1	29
378	Evidence for topological semimetallicity in a chain-compound TaSe <sub>3</sub> . Npj Quantum Materials, 2020, 5, .	1.8	20
379	On the bias voltage and staggered potential effects in tuning anisotropic temperature-dependent electrical conductivity of topological crystalline insulator thin films. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114330.	1.3	1
380	Quantum anomalous Hall insulator phases in Fe-doped GaBi honeycomb. Chinese Journal of Physics, 2020, 67, 246-252.	2.0	9
381	Observation of Dirac state in half-Heusler material YPtBi. Scientific Reports, 2020, 10, 12343.	1.6	13
382	Nonsymmorphic nodal-line metals in the two-dimensional rare earth monochalcogenides MX (M=Sc, Y; X=S, Se, Te). npj Quantum Materials, 2020, 5, 1707843	1.7	14
383	Topological Lifshitz transition of the intersurface Fermi-arc loop in NbIrTe <sub>4</sub> Physical Review B, 2020, 102, .	1.7	2
384	Large-gap topological insulators in functionalized ordered double transition metal carbide MXenes. Physical Review B, 2020, 102, .	1.1	24
385	Transport properties of Majorana drumhead surface states in topological nodal-ring superconductors. Physical Review B, 2020, 102, .	1.1	11
386	Tunable 3D/2D magnetism in the (MnBi <sub>2</sub> Te <sub>4</sub> )(Bi <sub>2</sub> Te <sub>3</sub> ) <sub>m</sub> topological insulators family. Npj Quantum Materials, 2020, 5, .	1.8	138

#	ARTICLE	IF	CITATIONS
387	Fully spin-polarized double-Weyl fermions with type-III dispersion in the quasi-one-dimensional materials <small>xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;&lt;mml:mrow&gt;&lt;mml:msub&gt;&lt;mml:mi&gt;X&lt;/mml:mi&gt;&lt;mml:mn&gt;2&lt;/mml:mn&gt;&lt;/mml:msub&gt;&lt;/mml:mrow&gt;&lt;/small&gt;  <small>( &lt;mml:math&gt;T_j ETQq0 0 0 rgBT /Overlock 10 Tf 50 732 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;&lt;mml:mrow&gt;&lt;mml:mi&gt;X&lt;/mml:mi&gt;&lt;mml:mn&gt;2&lt;/mml:mn&gt;&lt;/mml:msub&gt;&lt;/mml:mrow&gt;&lt;/small&gt;</small></small>	1.1	24
388	Topological surface states in strained Dirac semimetal thin films. <i>Physical Review B</i> , 2020, 102, .	1.1	10
389	Contrasting lattice geometry dependent versus independent quantities: Ramifications for Berry curvature, energy gaps, and dynamics. <i>Physical Review B</i> , 2020, 102, .	1.1	18
390	Topological classification of molecules and chemical reactions with a perplectic structure. <i>Physical Review B</i> , 2020, 101, .	1.1	4
391	Subtle metastability of the layered magnetic topological insulator MnBi <sub>2</sub> Te <sub>4</sub> from weak interactions. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	8
392	Half-Integer Quantized Topological Response in Quasiperiodically Driven Quantum Systems. <i>Physical Review Letters</i> , 2020, 125, 100601.	2.9	20
393	Evidence of Ba-substitution induced spin-canting in the magnetic Weyl semimetal <small>xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;&lt;mml:mrow&gt;&lt;mml:mi&gt;Eu&lt;/mml:mi&gt;&lt;mml:msub&gt;&lt;mml:mi&gt;Cd&lt;/mml:mi&gt;&lt;/mml:msub&gt;&lt;/mml:mrow&gt;&lt;/small&gt;  <i>Physical Review B</i>, 2020, 102, .</small>	1.1	1
398	Periodic Solids and Electron Bands. , 2020, , 81-108.		0
399	Uniform Electron Gas and sp-Bonded Metals. , 2020, , 109-128.		0
400	Density Functional Theory: Foundations. , 2020, , 129-144.		0
401	The Kohn-Sham Auxiliary System. , 2020, , 145-170.		0
402	Functionals for Exchange and Correlation I. , 2020, , 171-187.		0
403	Functionals for Exchange and Correlation II. , 2020, , 188-214.		0
404	Electronic Structure of Atoms. , 2020, , 215-229.		0
405	Pseudopotentials. , 2020, , 230-258.		0
407	Plane Waves and Grids: Basics. , 2020, , 262-282.		0
408	Plane Waves and Real-Space Methods: Full Calculations. , 2020, , 283-294.		0
409	Localized Orbitals: Tight-Binding. , 2020, , 295-319.		0

#	ARTICLE	IF	CITATIONS
410	Localized Orbitals: Full Calculations. , 2020, , 320-331.		0
411	Augmented Functions: APW, KKR, MTO. , 2020, , 332-364.		0
412	Augmented Functions: Linear Methods. , 2020, , 365-385.		0
413	Locality and Linear-Scaling O(N) Methods. , 2020, , 386-410.		0
414	Quantum Molecular Dynamics (QMD). , 2020, , 411-426.		0
415	Response Functions: Phonons and Magnons. , 2020, , 427-445.		0
416	Excitation Spectra and Optical Properties. , 2020, , 446-464.		0
417	Surfaces, Interfaces, and Lower-Dimensional Systems. , 2020, , 465-480.		0
418	Wannier Functions. , 2020, , 481-498.		0
419	Polarization, Localization, and Berry Phases. , 2020, , 499-516.		0
420	Topology of the Electronic Structure of a Crystal: Introduction. , 2020, , 517-530.		0
421	Two-Band Models: Berry Phase, Winding, and Topology. , 2020, , 531-546.		0
422	Topological Insulators I: Two Dimensions. , 2020, , 547-568.		0
423	Topological Insulators II: Three Dimensions. , 2020, , 569-580.		0
442	Floquet engineering of topological metal states and hybridization of edge states with bulk states in dimerized two-leg ladders. Scientific Reports, 2020, 10, 14256.	1.6	20
443	A new protocol for the preparation of superconducting KBi <sub>2</sub> . RSC Advances, 2020, 10, 26686-26692.	1.7	1
444	Anisotropic superexchange through nonmagnetic anions with spin-orbit coupling. European Physical Journal B, 2020, 93, 1.	0.6	2
445	Non-Collinear Orbital-induced Planar Quantum Anomalous Hall Effect. Nano Letters, 2020, 20, 7606-7612.	4.5	7





#	ARTICLE	IF	CITATIONS
464	Higher-order Dirac fermions in three dimensions. Physical Review B, 2020, 101, .	1.1	56
465	Observation of topological edge states induced solely by non-Hermiticity in an acoustic crystal. Physical Review B, 2020, 101, .	1.1	58
466	Unsupervised Manifold Clustering of Topological Phononics. Physical Review Letters, 2020, 124, 185501.	2.9	74
467	Jones Polynomial and Knot Transitions in Hermitian and non-Hermitian Topological Semimetals. Physical Review Letters, 2020, 124, 186402.	2.9	83
468	Microwave Spectroscopy Reveals the Quantum Geometric Tensor of Topological Josephson Matter. Physical Review Letters, 2020, 124, 197002.	2.9	51
469	Detection of topological materials with machine learning. Physical Review B, 2020, 101, .	1.1	32
470	The magnetic, electronic, and light-induced topological properties in two-dimensional hexagonal FeX <sub>2</sub> (X=Cl, Br, I) monolayers. Applied Physics Letters, 2020, 116, .	1.5	18
471	Superconducting Interfaces between Weyl Semimetal and Normal Metal. Advanced Quantum Technologies, 2020, 3, 2000020.	1.8	6
472	The strain and electric field modulation of magnetic properties in topological crystalline insulator thin films. Chemical Physics Letters, 2020, 751, 137512.	1.2	2
473	Non-Hermitian Dirac Cones. Physical Review Letters, 2020, 124, 236403.	2.9	61
474	Interlayer coupling induced quasiparticles. Physical Review B, 2020, 101, .	1.1	5
475	Hard-core bosonic domain walls on a honeycomb lattice. Physical Review A, 2020, 101, .	1.0	1
476	Robust Interface-State Laser in Non-Hermitian Microresonator Arrays. Physical Review Applied, 2020, 13, .	1.5	11
477	Spin-orbit splitting of quantum well states in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -monolayer Ir/Au(111) heterostructures. Physical Review B, 2020, 101, .	1.1	0
478	Magnetotransport properties of compensated semimetal HfB <sub>2</sub> with high-density light carriers. Journal of Physics Condensed Matter, 2020, 32, 015601.	0.7	3
479	Observation of Protected Photonic Edge States Induced by Real-Space Topological Lattice Defects. Physical Review Letters, 2020, 124, 243602.	2.9	44
480	IrSi as a Superior Electronic Material with Novel Topological Properties and Nice Compatibility with Semiconductor Si. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000178.	1.2	4
481	Fermiology of ZrTe with triply degenerate nodes and highly anisotropic magnetization. Physical Review B, 2020, 101, .	1.1	9

#	ARTICLE	IF	CITATIONS
482	Orthogonality Catastrophe as a Consequence of the Quantum Speed Limit. Physical Review Letters, 2020, 124, 110601.	2.9	59
483	Pressure-induced non-innocence in bis(1,2-dionedioximato)Pt complexes: an experimental and theoretical study of their insulator-metal transitions. Physical Chemistry Chemical Physics, 2020, 22, 6677-6689.	1.3	8
484	XFe <sub>4</sub> Ge <sub>2</sub> (X=Y,Lu) and Mn <sub>3</sub> Pt : Filling-enforced magnetic topological metals. Physical Review B, 2020, 101, .	1.1	5
485	Magneto-transport and Shubnikov-de Haas oscillations in the layered ternary telluride topological semimetal candidate Ta <sub>3</sub> SiTe <sub>6</sub> . Applied Physics Letters, 2020, 116, .	1.5	15
486	First-principles modeling of binary layered topological insulators: Structural optimization and exchange-correlation functionals. Physical Review B, 2020, 101, .	1.1	11
487	Defective edge states and number-anomalous bulk-boundary correspondence in non-Hermitian topological systems. Physical Review B, 2020, 101, .	1.1	65
488	Magnetotransport properties of noncentrosymmetric CaAgBi single crystal. Journal of Physics Condensed Matter, 2020, 32, 335701.	0.7	11
489	Quantum spin Hall state in monolayer 1T- <sup>±</sup> -TMDCs. Journal of Physics Condensed Matter, 2020, 32, 333001.	0.7	16
490	Topological corner states in non-Hermitian photonic crystals. Optics Communications, 2020, 466, 125653.	1.0	13
491	Dynamical Time-Reversal and Inversion Symmetry Breaking, Dimensional Crossover, and Chiral Anomaly in $\pm$ - <sub>2</sub> -(BEDT-TTF) <sub>3</sub> . Journal of the Physical Society of Japan, 2020, 89, 073705.	0.7	8
492	Magnetic field-dependent resistance crossover and anomalous magnetoresistance in topological insulator Bi <sub>2</sub> Te <sub>3</sub> . Journal of Physics Condensed Matter, 2020, 32, 425002.	0.7	7
493	Topological Dirac Semimetal Phase in Bismuth Based Anode Materials for Sodium-Ion Batteries. Condensed Matter, 2020, 5, 39.	0.8	4
494	Exhaustive list of topological hourglass band crossings in 230 space groups. Physical Review B, 2020, 102, .	1.1	17
495	Impurity scattering effects on the validity of Fermi liquid theory in topological crystalline insulator SnTe (001) thin films. Physical Chemistry Chemical Physics, 2020, 22, 13613-13621.	1.3	3
496	Defect-induced controllable quantum state transfer via a topologically protected channel in a flux qubit chain. Physical Review A, 2020, 102, .	1.0	11
497	Experimental observation of drumhead surface states in SrAs <sub>3</sub> . Scientific Reports, 2020, 10, 2776.	1.6	16
498	Disorder and magnetoconductivity in tilted Weyl semimetals. Physical Review B, 2020, 101, .	1.1	9
499	Topological Engineering of Pt-Group-Metal-Based Chiral Crystals toward High-Efficiency Hydrogen Evolution Catalysts. Advanced Materials, 2020, 32, e1908518.	11.1	81



#	ARTICLE	IF	CITATIONS
518	Engineering Corner States from Two-Dimensional Topological Insulators. Physical Review Letters, 2020, 124, 166804.	2.9	90
519	Defective edge states and anomalous bulk-boundary correspondence for topological insulators under non-Hermitian similarity transformation. International Journal of Modern Physics B, 2020, 34, 2050146.	1.0	7
520	Controlling anisotropic surface group velocity and effective mass in topological crystalline insulator SnTe by Rashba effect. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 120, 114118.	1.3	0
521	Thermodynamic properties of topological crystalline insulator SnTe (001) thin film in the presence of Zeeman magnetic field. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 121, 114142.	1.3	0
522	Dynamics of reconfigurable artificial spin ice: Toward magnonic functional materials. APL Materials, 2020, 8, .	2.2	52
523	Strong and Weak 3D Topological Insulators Probed by Surface Science Methods. Physica Status Solidi (B): Basic Research, 2021, 258, 2000060.	0.7	2
524	Excited-state dynamics of structurally characterized crystal of Sn <sub>x</sub> Sb <sub>1-x</sub> . Journal of Materials Science, 2021, 56, 1527-1536.	1.7	2
525	Tuning Fermi Levels in Intrinsic Antiferromagnetic Topological Insulators MnBi <sub>2</sub> Te <sub>4</sub> and MnBi <sub>4</sub> Te <sub>7</sub> by Defect Engineering and Chemical Doping. Advanced Functional Materials, 2021, 31, 2006516.	7.8	68
526	Six-membered-ring inorganic materials: definition and prospects. National Science Review, 2021, 8, nwaa248.	4.6	14
527	Dissipation-induced topological phase transition and periodic-driving-induced photonic topological state transfer in a small optomechanical lattice. Frontiers of Physics, 2021, 16, 1.	2.4	11
528	Exchange field effects on the electronic properties of heterostructured ferromagnetic/topological crystalline insulator. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114441.	1.3	1
529	Quantum phases driven by strong correlations. Nature Reviews Physics, 2021, 3, 9-26.	11.9	92
530	First-principles study of orbital-dependent band topology of topological rare earth hexaborides. International Journal of Quantum Chemistry, 2021, 121, e26452.	1.0	3
531	Recent Advances in Hybridization, Doping, and Functionalization of 2D Xenos. Advanced Functional Materials, 2021, 31, .	7.8	33
532	Three-dimensional topological semimetal phase in layered TaNi <sub>1-x</sub> Te <sub>3</sub> probed by quantum oscillations. Physical Review B, 2021, 103, .	2.9	16
533	A magnetic topological insulator in two-dimensional EuCd <sub>2</sub> Bi <sub>2</sub> : giant gap with robust topology against magnetic transitions. Materials Horizons, 2021, 8, 956-961.	6.4	18
534	Topological Phase Transition and Phonon-Space Dirac Topology Surfaces in ZrTe <sub>5</sub> . Physical Review Letters, 2021, 126, 016401.	2.9	16
535	Disorder effects of vacancies on the electronic transport properties of realistic topological insulator nanoribbons: The case of bismuthene. Physical Review Materials, 2021, 5, .	0.9	14

#	ARTICLE	IF	CITATIONS
536	Faithful simulation and detection of quantum spin Hall effect on superconducting circuits. Quantum Engineering, 2021, 3, .	1.2	4
537	Superconducting properties of BaBi <sub>3</sub> at ambient and high pressures. Physical Chemistry Chemical Physics, 2021, 23, 23014-23023.	1.3	3
538	Impurity effects in a two-dimensional nonsymmorphic Dirac semimetal. Europhysics Letters, 2021, 133, 27003.	0.7	2
539	Atom-surface van der Waals potentials of topological insulators and semimetals from scattering measurements. Physical Chemistry Chemical Physics, 2021, 23, 7637-7652.	1.3	17
540	Ground-state quantum geometry in superconductorâ€“quantum dot chains. Physical Review B, 2021, 103, .	1.1	18
541	Newly discovered graphyne allotrope with rare and robust Dirac node loop. Nanoscale, 2021, 13, 3564-3571.	2.8	33
542	Enhancement of Electrocatalytic Hydrogen Evolution by Topological Engineering in Hybrid Weyl Catalyst NiSi. SSRN Electronic Journal, 0, , .	0.4	0
543	Magnonic Su-Schrieffer-Heeger model in honeycomb ferromagnets. Physical Review B, 2021, 103, .	1.1	6
544	Effect of Rashba splitting on ultrafast carrier dynamics in BiTeI. Physical Review B, 2021, 103, .	1.1	2
545	Structural and electronic properties of realistic two-dimensional amorphous topological insulators. 2D Materials, 2021, 8, 025032.	2.0	16
546	Structure, phase stability, half-metallicity, and fully spin-polarized Weyl states in compound NaV <sub>2</sub> O <sub>4</sub> : An example for topological spintronic material. Physical Review Materials, 2021, 5, .	0.9	7
547	Post-synthesis control of Berry phase driven magnetotransport in $\text{SrRuO}_3$ films. Physical Review B, 2021, 103, .		
548	Non-Hermitian bulk-boundary correspondence in a periodically driven system. Physical Review B, 2021, 103, .	1.1	25
549	Rigidity of topological invariants to symmetry breaking. Physical Review B, 2021, 103, .	1.1	5
550	Temperature effects in tilted Weyl semimetals: Dichroism and dynamic Hall angle. Physical Review B, 2021, 103, .	1.1	4
551	Effect of chiral anomaly on Andreev reflection in a tilted Weyl semimetal hybrid junction. Physical Review B, 2021, 103, .	1.1	3
552	Topological beam splitter via defect-induced edge channel in the Rice-Mele model. Physical Review B, 2021, 103, .	1.1	21
553	Intensity tuning of the edge states in the imperfect topological waveguides based on the photonic crystals with the $C_3$ point group symmetry. Optical and Quantum Electronics, 2021, 53, 1.	1.5	8

#	ARTICLE	IF	CITATIONS
554	Controllable photon-phonon conversion via the topologically protected edge channel in an optomechanical lattice. <i>Physical Review A</i> , 2021, 103, .	1.0	13
555	Quantum spin Hall effect in antiferromagnetic topological heterobilayers. <i>Physical Review B</i> , 2021, 103, .	1.1	15
556	Type-III Weyl semimetals: $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ . <i>Physical Review B</i> , 2021, 103, .	1.1	12
557	Topological Anderson insulators in an Ammann-Beenker quasicrystal and a snub-square crystal. <i>Physical Review B</i> , 2021, 103, .	1.1	12
558	Two-dimensional topological superconductivity candidate in a van der Waals layered material. <i>Physical Review B</i> , 2021, 103, .	1.1	18
559	Gapped Dirac semimetal with mixed linear and parabolic dispersions. <i>Physical Review B</i> , 2021, 103, .	1.1	5
560	Dimensional engineering of a topological insulating phase in Half-Heusler LiMgAs. <i>Scientific Reports</i> , 2021, 11, 6432.	1.6	6
561	Pressure effect on band inversion in AECd <sub>2</sub> As <sub>2</sub> (AE=Ca, Sr, Ba). <i>Physical Review B</i> , 2021, 103, .	1.1	6
562	Magnon- versus Electron-Mediated Spin-Transfer Torque Exerted by Spin Current across an Antiferromagnetic Insulator to Switch the Magnetization of an Adjacent Ferromagnetic Metal. <i>Physical Review Applied</i> , 2021, 15, .	1.5	11
563	Topological input-output theory for directional amplification. <i>Physical Review A</i> , 2021, 103, .	1.0	16
564	First-principles calculations for topological quantum materials. <i>Nature Reviews Physics</i> , 2021, 3, 283-297.	11.9	48
565	Noncollinear ferromagnetic Weyl semimetal with anisotropic anomalous Hall effect. <i>Physical Review B</i> , 2021, 103, .	1.1	42
566	Transport induced dimer state from topological corner states. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	7
567	Non-Hermitian route to higher-order topology in an acoustic crystal. <i>Nature Communications</i> , 2021, 12, 1888.	5.8	79
568	Double band inversion in the topological phase transition of Ge <sub>1-x</sub> Sn <sub>x</sub> alloys. <i>Europhysics Letters</i> , 2021, 133, 57001.	0.7	1
569	Correlation driven topological nodal ring ferromagnetic spin gapless semimetal: CsMnF <sub>4</sub> . <i>Journal of Physics Condensed Matter</i> , 2021, 33, .	0.7	1
570	Manipulating Weyl quasiparticles by orbital-selective photoexcitation in WTe <sub>2</sub> . <i>Nature Communications</i> , 2021, 12, 1885.	5.8	25
571	First-principles prediction of ideal type-II Weyl phonons in wurtzite ZnSe. <i>Physical Review B</i> , 2021, 103, .	1.1	21

#	ARTICLE	IF	CITATIONS
572	Majorana bound states in a superconducting Rashba nanowire in the presence of antiferromagnetic order. <i>Physical Review B</i> , 2021, 103, .	1.1	11
573	The topological criticality in disordered non-Hermitian system. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 185401.	0.7	6
574	Weyl, Dirac and high-fold chiral fermions in topological quantum matter. <i>Nature Reviews Materials</i> , 2021, 6, 784-803.	23.3	82
575	Electric-field-generated topological states in a silicene nanotube. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 175301.	0.7	2
576	Development of a Ni-Doped $\text{VAl}_3$ Topological Semimetal with a Significantly Enhanced HER Catalytic Performance. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3740-3748.	2.1	21
577	Hybrid-Order Topological Insulators in a Phononic Crystal. <i>Physical Review Letters</i> , 2021, 126, 156801.	2.9	57
578	Spin angular momentum of gravitational wave interference. <i>New Journal of Physics</i> , 2021, 23, 043035.	1.2	4
579	Topological gapped phonons in $\text{T}-\text{C}$ -carbon. <i>Physical Review B</i> , 2021, 103, .	1.1	31
580	Experimental perspective on three-dimensional topological semimetals. <i>Reviews of Modern Physics</i> , 2021, 93, .	16.4	265
581	Type-I Weyl points induced by negative coupling in photonic crystal. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	3
582	First-principles identification of topological crystalline insulators with $C_2$ rotation anomaly. <i>Physical Review B</i> , 2021, 103, .	1.1	0
583	Topological router induced via long-range hopping in a Su-Schrieffer-Heeger chain. <i>Physical Review Research</i> , 2021, 3, .	1.3	15
584	Out of equilibrium chiral higher order topological insulator on a $\pi$ -flux square lattice. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 164005.	0.7	7
585	Discovery of higher-order topological insulators using the spin Hall conductivity as a topology signature. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	15
586	Fermi surface studies of the topologically nontrivial compound $\text{YSi}$ . <i>Physical Review B</i> , 2021, 103, .	1.1	3
587	Realization of the Chern-insulator and axion-insulator phases in antiferromagnetic $\text{MnTe}$ heterostructures. <i>Physical Review B</i> , 2021, 103, .	1.1	10
588	Localized Wannier function based tight-binding models for two-dimensional allotropes of bismuth. <i>New Journal of Physics</i> , 2021, 23, 063042.	1.2	3
589	Higher-order topology and fractional charge in monolayer graphene. <i>Physical Review Research</i> , 2021, 3, .	1.3	27



#	ARTICLE	IF	CITATIONS
590	Topologically Protected Wormholes in Type-III Weyl Semimetal $\text{Co}_3\text{In}_2\text{X}_2$ ( $X = \text{S}, \text{Se}$ ). Condensed Matter, 2021, 6, 18.	0.8	11
591	Exponentially growing bulk Green functions as signature of nontrivial non-Hermitian winding number in one dimension. Physical Review B, 2021, 103, .	1.1	10
593	Terahertz detection based on nonlinear Hall effect without magnetic field. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	40
594	Valley-dependent corner states in honeycomb photonic crystals without inversion symmetry. Optics Express, 2021, 29, 18277.	1.7	24
595	Spin-orbit coupling in the kagome lattice with flux and time-reversal symmetry. Physical Review B, 2021, 103, .	1.1	5
596	Investigating the effect of temperature dependent many-body interactions on electronic structures of SnTe in the Matsubara-time domain. Journal of Physics Condensed Matter, 2021, 33, 225505.	0.7	5
597	Berry bands and pseudo-spin of topological photonic phases. Physical Review Research, 2021, 3, .	1.3	15
598	Magnetism-mediated transition between crystalline and higher-order topological phases in NpSb. Physical Review B, 2021, 103, .	1.1	15
599	High-buckled $3\text{Å}-3$ stanene with a topologically nontrivial energy gap. Journal Physics D: Applied Physics, 2021, 54, 304002.	1.3	5
600	Phase-Modulated 2D Topological Physics in a One-Dimensional Ultracold System. Chinese Physics Letters, 2021, 38, 040302.	1.3	3
601	Switching Spinless and Spinful Topological Phases with Projective $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle P \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle T \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Symmetry. Physical Review Letters, 2021, 126, 196402.	2.9	30
602	Bulk-Boundary Correspondence for Non-Hermitian Hamiltonians via Green Functions. Physical Review Letters, 2021, 126, 216407.	2.9	46
603	The Different Story of $\text{I}\ddot{\text{C}}$ Bonds. Molecules, 2021, 26, 3805.	1.7	2
604	Cleaving plane-dependent electronic structures of transition metal diarsenides. Physical Review Research, 2021, 3, .	1.3	2
605	Topological Valley Photonics: Physics and Device Applications. Advanced Photonics Research, 2021, 2, 2100013.	1.7	63
606	Unusual electronic structure of Dirac material $\text{BaMnSb}_2$ revealed by angle-resolved photoemission spectroscopy*. Chinese Physics B, 2021, 30, 067403.	0.7	4
607	Electronic structure examination of the topological properties of $\text{CaMnSb}_2$ by angle-resolved photoemission spectroscopy. Physical Review B, 2021, 103, .	1.1	6
608	Recent progress on measurement of spin $\leftrightarrow$ charge interconversion in topological insulators using ferromagnetic resonance. APL Materials, 2021, 9, .	2.2	7

#	ARTICLE	IF	CITATIONS
609	Itinerant Topological Magnons in SU(2) Symmetric Topological Hubbard Models with Nearly Flat Electronic Bands. Chinese Physics Letters, 2021, 38, 057501.	1.3	2
610	Chiralities of nodal points along high-symmetry lines with screw rotation symmetry. Physical Review B, 2021, 103, .	1.1	6
611	Importance of macroscopic polarization on vibrational properties and the robust nature of (001) surface states of SnTe. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 401, 127359.	0.9	2
612	Huge magnetoresistance in topological insulator spin-valves at room temperature. Scientific Reports, 2021, 11, 11717.	1.6	3
613	Einstein-de Haas effect of topological magnons. Physical Review Research, 2021, 3, .	1.3	5
614	Non-Hermitian disorder-driven topological transition in a dimerized Kitaev superconductor chain. Physical Review B, 2021, 103, .	1.1	6
615	Photonic Topological Insulators: A Beginner's Introduction [Electromagnetic Perspectives]. IEEE Antennas and Propagation Magazine, 2021, 63, 112-124.	1.2	19
616	Crystalline materials for quantum computing: Semiconductor heterostructures and topological insulators exemplars. MRS Bulletin, 2021, 46, 596-606.	1.7	15
617	A short review on first-principles study of gapped topological materials. Computational Materials Science, 2021, 195, 110467.	1.4	5
618	Hierarchy of multi-order skyrmion phases in twisted magnetic bilayers. Physical Review B, 2021, 104, .	1.1	13
619	Light-induced Quantum Anomalous Hall Effect on the 2D Surfaces of 3D Topological Insulators. Advanced Science, 2021, 8, e2101508.	5.6	11
620	Topological magnon insulator spin excitations in the two-dimensional ferromagnet $\text{CrBr}_3$ . Physical Review B, 2021, 104, .	1.1	38
621	Topological Phase Transition and Topological Quantum State Transfer in Periodically Modulated Circuit QED Lattice. Annalen Der Physik, 2021, 533, 2100120.	0.9	8
622	A novel topological crystalline insulator in planar pentacoordinate OsS <sub>2</sub> monolayer. Chemical Physics, 2021, 547, 111199.	0.9	1
623	Topological quantum matter to topological phase conversion: Fundamentals, materials, physical systems for phase conversions, and device applications. Materials Science and Engineering Reports, 2021, 145, 100620.	14.8	23
624	Three-dimensional acetylenic modified graphene for high-performance optoelectronics and topological materials. Npj Computational Materials, 2021, 7, .	3.5	4
625	Tuning Electronic Properties of 2D Materials Using Metal Adsorbates: Cu at WTe <sub>2</sub> Edges. Journal of Physical Chemistry Letters, 2021, 12, 6596-6603.	2.1	4
626	Symmetry-enforced band nodes in 230 space groups. Physical Review B, 2021, 104, .	1.1	12

#	ARTICLE	IF	CITATIONS
627	Review of recent progress on THz spectroscopy of quantum materials: superconductors, magnetic and topological materials. European Physical Journal: Special Topics, 2021, 230, 4113-4139.	1.2	9
628	Topological Photonics on Superconducting Quantum Circuits with Parametric Couplings. Advanced Quantum Technologies, 2021, 4, 2100017.	1.8	5
629	Acoustic Valley Spin Chern Insulators. Physical Review Applied, 2021, 16, .	1.5	13
630	Realistic tight-binding model for monolayer transition metal dichalcogenides of $1 \times 1$ structure. Physical Review B, 2021, 104, .		
631	Induction of floquet topological phases in honeycomb nanoribbon irradiated by circularly polarized laser field. International Journal of Modern Physics B, 2021, 35, 2150180.	1.0	1
632	Pure spin photocurrent in non-centrosymmetric crystals: bulk spin photovoltaic effect. Nature Communications, 2021, 12, 4330.	5.8	51
633	Chiral phonons in the honeycomb sublattice of layered CoSn-like compounds. Physical Review B, 2021, 104, .	1.1	17
634	Gauge-Field Extended $k \cdot p$ Method and Novel Topological Phases. Physical Review Letters, 2021, 127, 076401.		
635	Two-dimensional topological semimetals*. Chinese Physics B, 2021, 30, 107304.	0.7	29
636	Symmetry-protected multiple-type nodal lines in intermetallic XY ( $X = \text{Ca}$ , Rare earth; $Y = \text{Ni}$ , PGE, Ag, Cu). Journal of Alloys and Compounds, 2021, 873, 159773.	2.8	1
637	Exhaustive construction of effective models in 1651 magnetic space groups. Physical Review B, 2021, 104, .	1.1	32
638	Moving Dirac nodes by chemical substitution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
639	Topological states in quasicrystals. Frontiers of Physics, 2022, 17, 1.	2.4	22
640	Graphyne as a second-order and real Chern topological insulator in two dimensions. Physical Review B, 2021, 104, .	1.1	30
641	Topology of $\text{SmB}_6$ determined by dynamical mean field theory. Physical Review B, 2021, 104, .		
642	Enhanced Andreev reflection in Kekulé-Y patterned graphene. Physical Review B, 2021, 104, .	1.1	10
643	Nonlocal Measurement as a Probe of the Spin Hall Effect in Topological Insulators. Physical Review Applied, 2021, 16, .	1.5	2
644	Resonance and topological singularity near and beyond zero frequency for waves: model, theory, and effects. Photonics Research, 2021, 9, 2024.	3.4	5

#	ARTICLE	IF	CITATIONS
645	Uncovering band topology via quantized drift in two-dimensional Bloch oscillations. <i>Physical Review B</i> , 2021, 104, .	1.1	3
646	Nontrivial point-gap topology and non-Hermitian skin effect in photonic crystals. <i>Physical Review B</i> , 2021, 104, .	1.1	40
647	Machine learning for materials discovery: Two-dimensional topological insulators. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	34
648	Mitrofanovite Pt <sub>3</sub> Te <sub>4</sub> : A Topological Metal with Termination-Dependent Surface Band Structure and Strong Spin Polarization. <i>ACS Nano</i> , 2021, 15, 14786-14793.	7.3	13
649	Navigating recent advances in monoelemental materials (Xenes)-fundamental to biomedical applications. <i>Progress in Solid State Chemistry</i> , 2021, 63, 100326.	3.9	20
650	Majorana Zero Modes and Bulk-Boundary Correspondence at Quantum Criticality. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 094706.	0.7	5
651	Modulated electronic heat capacity of topological crystalline insulator thin films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 133, 114809.	1.3	0
652	Triply degenerate point in three-dimensional spinless systems. <i>Physical Review B</i> , 2021, 104, .	1.1	7
653	Nodal Lines and Boundary Modes in Topological Dirac Semimetals with Magnetism. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 094702.	0.7	1
654	Higher-order topological insulator phase in a modified Haldane model. <i>Physical Review B</i> , 2021, 104, .	1.1	16
655	Anab initio study of topological and transport properties of YAuPb. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 475503.	0.7	5
656	Topological aspects of antiferromagnets. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 103002.	1.3	36
657	Tunable topologically nontrivial states in newly discovered graphyne allotropes: from Dirac nodal grid to Dirac nodal loop. <i>Nanotechnology</i> , 2021, 32, 485705.	1.3	4
658	Photoinduced anomalous Hall effect in the interacting Haldane model: Targeting topological states with pump pulses. <i>Physical Review B</i> , 2021, 104, .	1.1	6
659	How a complex Zeeman field drives quantum phase transitions in the Ising model: From the perspective of geometric phase and symmetry. <i>Optik</i> , 2021, , 168031.	1.4	0
660	Boundary condition independence of non-Hermitian Hamiltonian dynamics. <i>Physical Review B</i> , 2021, 104, .	1.1	17
661	Theoretical prediction of topological insulators in two-dimensional ternary transition metal chalcogenides (MM'X <sub>4</sub> , M $\bar{A}$ = $\bar{A}$ Ta, Nb, or V; M'= Ir, Rh, or Co; X $\bar{A}$ = $\bar{A}$ Se or Te). <i>Chinese Journal of Physics</i> , 2021, 73, 95-102.	2.0	11
662	The quantum phase transitions of dimer chain driven by an imaginary alternating field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 134, 114871.	1.3	1

#	ARTICLE	IF	CITATIONS
663	Doping-controlled surface conduction in topological insulators with warping effects. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 536, 168135.	1.0	2
664	Emerging two-dimensional silicene nanosheets for biomedical applications. <i>Materials Today Nano</i> , 2021, 16, 100132.	2.3	19
665	Identification of the Majorana edge modes in tight-binding systems based on the Krylov method. <i>Computer Physics Communications</i> , 2021, 269, 108135.	3.0	0
666	WloopPHI: A tool for ab initio characterization of Weyl semimetals. <i>Computer Physics Communications</i> , 2022, 270, 108147.	3.0	5
667	Unraveling peculiar magnetism and band topology in Mn <sub>3</sub> Sb. <i>Journal of Alloys and Compounds</i> , 2022, 891, 162024.	2.8	0
668	Sb <sub>2</sub> Te <sub>3</sub> an optically potent topological insulator: A density functional study. <i>Materials Today: Proceedings</i> , 2021, 45, 4819-4823.	0.9	3
669	A topological quantum catalyst: the case of two-dimensional traversing nodal line states associated with high catalytic performance for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22453-22461.	5.2	30
670	Phenomenological Model of Nonlinear Optical Properties of a Topological Medium. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2021, 129, 110-115.	0.2	2
671	Tip-induced superconductivity commonly existing in the family of transition-metal dipnictides MP <sub>n</sub> 2. <i>Chinese Physics B</i> , 2021, 30, 017304.	0.7	2
672	Ambient-pressure Dirac electron system in the quasi-two-dimensional molecular conductor $I_{\pm}^3$ <i>Physical Review B</i> , 2021, 103.	0.7	2
673	Nonlinear effects in topological materials. <i>Frontiers of Optoelectronics</i> , 2021, 14, 99-109.	1.9	4
674	Topological carbon materials: A new perspective. <i>Physics Reports</i> , 2020, 868, 1-32.	10.3	42
677	Observation of Time-Reversal Invariant Helical Edge-Modes in Bilayer Graphene/WSe <sub>2</sub> Heterostructure. <i>ACS Nano</i> , 2021, 15, 916-922.	7.3	13
678	State-Dependent Topological Invariants and Anomalous Bulk-Boundary Correspondence in Non-Hermitian Topological Systems with Generalized Inversion Symmetry. <i>Chinese Physics Letters</i> , 2020, 37, 117303.	1.3	11
679	Structural properties of PbTe quantum dots revealed by high-energy x-ray diffraction. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 485401.	0.7	7
680	Weyl fermions in ferromagnetic high-temperature phase of K <sub>2</sub> Cr <sub>8</sub> O <sub>16</sub> . <i>New Journal of Physics</i> , 2020, 22, 073062.	1.2	2
681	Topologically nontrivial interband plasmons in type-II Weyl semimetal MoTe <sub>2</sub> . <i>New Journal of Physics</i> , 2020, 22, 103032.	1.2	10
682	Enhanced repulsively bound atom pairs in topological optical lattice ladders. <i>Quantum Science and Technology</i> , 2020, 5, 045017.	2.6	7

#	ARTICLE	IF	CITATIONS
683	Berry connection induced anomalous wave-packet dynamics in non-Hermitian systems. Physical Review B, 2020, 102, .	1.1	18
684	Coupling of magnetic order and charge transport in the candidate Dirac semimetal $\text{EuCd}_2\text{Mn}_2$ Physical Review B, 2018, 97, .	0.9	9
685	Optimizing composition of $\text{Pb}$ Physical Review B, 2018, 97, .	0.9	9
686	Superconducting monolayer deposited on substrate: Effects of the spin-orbit coupling induced by proximity effects. Physical Review Materials, 2018, 2, .	0.9	17
687	Nonsymmorphic cubic Dirac point and crossed nodal rings across the ferroelectric phase transition in $\text{LiOsO}_3$ Physical Review Materials, 2018, 2, .	0.9	35
688	Hexagonal supertetrahedral boron: A topological metal with multiple spin-orbit-free emergent fermions. Physical Review Materials, 2019, 3, .	0.9	18
689	Topological and superconducting properties in $\text{YD}_3$ Physical Review Materials, 2019, 3, .	0.9	14
690	Hourglass Weyl loops in two dimensions: Theory and material realization in monolayer $\text{CaTe}$ family. Physical Review Materials, 2019, 3, .	0.9	44
691	Prediction of threefold fermions in a nearly ideal Dirac semimetal $\text{BaAgAs}$ . Physical Review Materials, 2019, 3, .	0.9	24
692	Termination-dependent topological surface states in nodal-loop semimetal $\text{HfP}_2$ Physical Review Materials, 2020, 4, .	0.9	15
693	Spin-orbit-proximitized ferromagnetic metal by monolayer transition metal dichalcogenide: Atlas of spectral functions, spin textures, and spin-orbit torques in $\text{Co}$ and $\text{Ni}$ Physical Review Materials, 2020, 4, .	0.9	11
694	$f$ -electron Kitaev magnets: Honeycomb and hyperhoneycomb compounds $\text{A}_2\text{X}_2$ Physical Review Materials, 2020, 4, .	0.9	11

#	ARTICLE	IF	CITATIONS
701	Gapped Dirac cones and spin texture in thin film topological insulator. Physical Review Research, 2020, 2, .	1.3	10
702	Topological pumping assisted by Bloch oscillations. Physical Review Research, 2020, 2, .	1.3	13
703	Interfacial-hybridization-modified Ir ferromagnetism and electronic structure in $\text{LaMnO}_3$ superlattices. Physical Review Research, 2020, 2, .	1.3	13
704	Spin-orbit Coupling and Topological Phases for Ultracold Atoms. , 2018, , 1-87.		12
705	Controllable photonic and phononic topological state transfers in a small optomechanical lattice. Optics Letters, 2020, 45, 2018.	1.7	24
706	Non-Bloch $\mathcal{PT}$ symmetry breaking in non-Hermitian photonic quantum walks. Optics Letters, 2019, 44, 5804.	1.7	48
707	Tunable Topological Beam Splitter in Superconducting Circuit Lattice. Quantum Reports, 2021, 3, 1-12.	0.6	2
708	A Unified View of Topological Phase Transition in Band Theory. Research, 2020, 2020, 7832610.	2.8	17
709	Topological invariant in quench dynamics. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 220304.	0.2	6
710	Observation of 1D Fermi arc states in Weyl semimetal TaAs. National Science Review, 0, , .	4.6	2
711	Relativistic Aharonov-Casher effect in 1+2-dimensional $G_2$ spacetime. European Physical Journal Plus, 2021, 136, 1.	1.2	3
712	Equally Spaced Quantum States in van der Waals Epitaxy-Grown Nanoislands. Nano Letters, 2021, 21, 9285-9292.	4.5	1
713	Higher-order topological insulator in cubic semiconductor quantum wells. Scientific Reports, 2021, 11, 21060.	1.6	5
714	Systematic identification of mirror-protected topological crystalline insulators by first-principles calculations. New Journal of Physics, 2021, 23, 103032.	1.2	2
715	Change-over switch for quantum states transfer with topological channels in a circuit-QED lattice. Chinese Physics B, 0, , .	0.7	1
716	Adiabatic Pumping in a Generalized Aubry-Andr� Model Family with Mobility Edges. Annalen Der Physik, 0, , 2100270.	0.9	2
717	Topological Anderson Insulator in Cation-Disordered $\text{Cu}_2\text{ZnSnS}_4$ . Nanomaterials, 2021, 11, 2595.	1.9	7
718	Time-reversal symmetric topological metal. Physical Review B, 2021, 104, .	1.1	4

#	ARTICLE	IF	CITATIONS
719	Topological descendants of a multicritical Dirac semimetal with magnetism and strain. Physical Review B, 2021, 104, .	1.1	2
720	Edge States in 1D Rhombus Lattices. Annalen Der Physik, 0, , 2100188.	0.9	3
723	First-Principles Quantum Transport Modeling of Spin-Transfer and Spin-Orbit Torques in Magnetic Multilayers. , 2020, , 499-533.		2
724	Natural Topological Insulator Heterostructures. Springer Handbooks, 2020, , 449-470.	0.3	0
725	The Crystal Field Plasmon Splitting. ACS Photonics, 2020, 7, 1551-1559.	3.2	0
726	Progress on 2D topological insulators and potential applications in electronic devices*. Chinese Physics B, 2020, 29, 097304.	0.7	5
727	Nitrogen vacancy centre-based diamond microscope for investigating quantum materials. Bulletin of Materials Science, 2021, 44, 1.	0.8	2
728	Connecting topological Anderson and Mott insulators in disordered interacting fermionic systems. Physical Review B, 2021, 104, .	1.1	9
729	Emergence of the Unconventional Type-II Nambu-Goldstone Modes with Topological Origin in Bose Superfluids. Physical Review Letters, 2020, 125, 260402.	2.9	2
730	Flat bands and $Z_2$ topological phases in a non-Abelian kagome lattice. Physical Review B, 2020, 102, .	1.1	5
731	WannSymm: A symmetry analysis code for Wannier orbitals. Computer Physics Communications, 2022, 271, 108196.	3.0	22
732	Generalized Brillouin zone and non-Hermitian band theory. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 230307.	0.2	4
733	Optical Control of Electronic States in Three-Dimensional Topological Insulators. Journal of Structural Chemistry, 2020, 61, 668-671.	0.3	0
734	Twist the doorknob to open the electronic properties of graphene-based van der Waals structure. Matter, 2021, 4, 3444-3482.	5.0	12
735	Non-Hermitian Weyl semimetals: Non-Hermitian skin effect and non-Bloch bulk–boundary correspondence. Chinese Physics B, 2022, 31, 010308.	0.7	12
736	Acoustic non-Hermitian skin effect from twisted winding topology. Nature Communications, 2021, 12, 6297.	5.8	125
737	Topological phases and type-II edge state in a two-leg-coupled Su-Schrieffer-Heeger chains. Chinese Physics B, 0, , .	0.7	2
738	Thermo-Magneto-Electric Transport through a Torsion Dislocation in a Type I Weyl Semimetal. Nanomaterials, 2021, 11, 2972.	1.9	5



#	ARTICLE	IF	CITATIONS
739	Electrically controlled spin polarized current in Dirac semimetals. <i>Scientific Reports</i> , 2021, 11, 21509.	1.6	0
740	Ferromagnetic proximity effect on the thermodynamic properties of topological crystalline insulator SnTe (001) and related thin films. <i>Chemical Physics</i> , 2020, 535, 110779.	0.9	0
741	Details of the topological state transition induced by gradually increased disorder in photonic Chern insulators. <i>Optics Express</i> , 2020, 28, 31487.	1.7	17
742	Ferromagnetic Weyl metal in EuAgP. <i>Materials Today Physics</i> , 2022, 22, 100570.	2.9	3
743	T-carbon: Experiments, properties, potential applications and derivatives. <i>Nano Today</i> , 2022, 42, 101346.	6.2	23
744	Synthetic Three-Dimensional $Z\bar{2}$ Topological Insulator in an Elastic Metacrystal. <i>Physical Review Letters</i> , 2021, 127, 214302.	2.9	9
745	Correspondence between Non-Hermitian Topology and Directional Amplification in the Presence of Disorder. <i>Physical Review Letters</i> , 2021, 127, 213601.	2.9	25
746	Building programmable integrated circuits through disordered Chern insulators. <i>Physical Review B</i> , 2021, 104, .	1.1	10
747	Semimetallic square-octagon two-dimensional polymer with high mobility. <i>Physical Review B</i> , 2021, 104, .	1.1	3
748	Anomalous Superconducting Proximity Effect in $\text{Bi}_2\text{Se}_3/\text{FeSe}_{0.5}\text{Te}_{0.5}$ Thin-Film Heterojunctions. <i>Advanced Materials</i> , 2022, 34, e2107799.	11.1	7
749	Antiferromagnetic topological crystalline insulator and mixed Weyl semimetal in two-dimensional NpAs monolayer. <i>New Journal of Physics</i> , 2021, 23, 123018.	1.2	5
750	Theoretical realization of hybrid Weyl state and associated high catalytic performance for hydrogen evolution in NiSi. <i>IScience</i> , 2022, 25, 103543.	1.9	24
751	Microwave impedance microscopy and its application to quantum materials. <i>Nature Reviews Physics</i> , 2022, 4, 61-74.	11.9	28
752	Quasinodal lines in rhombohedral magnetic materials. <i>Physical Review B</i> , 2021, 104, .	1.1	3
753	Localization, $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mi mathvariant="script">PT} \langle \text{mml:mi} \rangle \langle \text{mml:math}>$ symmetry breaking, and topological transitions in non-Hermitian quasicrystals. <i>Physical Review B</i> , 2022, 105, .	1.1	16
754	Topological signatures in nodal semimetals through neutron scattering. <i>New Journal of Physics</i> , 2022, 24, 013016.	1.2	2
755	Majorana Bound State Leakage to Impurity in Su-Schrieffer-Heeger-Rashba Scenario. <i>Acta Physica Polonica A</i> , 2020, 138, 673-680.	0.2	0
759	NMR probe of suppressed bulk conductivity in the topological insulator $\text{Bi}_0.5\text{Sb}_{1.5}\text{Te}_3$ . <i>RSC Advances</i> , 2022, 12, 2531-2535.	1.7	0

#	ARTICLE	IF	CITATIONS
760	Topological phase transition in cavity optomechanical system with periodical modulation. Chinese Physics B, 0, , .	0.7	1
761	Two-particle Berry phase mechanism for Dirac and Majorana Kramers pairs of corner modes. Physical Review B, 2022, 105, .	1.1	17
762	Infrared spectroscopic study of topological material BaMnSb <sub>2</sub> . Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	0
763	Gate-Tunable Transport in Quasi-One-Dimensional $\hat{I}\pm\text{Bi}_{4}\text{I}_{4}$ Field Effect Transistors. Nano Letters, 2022, 22, 1151-1158.	4.5	5
764	Topological phonons and electronic structure of $\text{Li}_{2}\text{BaSi}$ class of semimetals. Journal of Physics Condensed Matter, 2022, 34, 125502.	0.7	2
765	Topological superconductors and exact mobility edges in non-Hermitian quasicrystals. Physical Review B, 2022, 105, .	1.1	6
766	Cooper-pair transistor as a minimal topological quantum circuit. Physical Review Research, 2022, 4, .	1.3	8
767	Weyl Fermion magneto-electrodynamics and ultralow field quantum limit in TaAs. Science Advances, 2022, 8, eabj1076.	4.7	4
768	Second-Order Real Nodal-Line Semimetal in Three-Dimensional Graphdiyne. Physical Review Letters, 2022, 128, 026405.	2.9	34
769	Band theoretical approaches to topological physics in strongly-correlated f-electron Kondo systems. Journal of Physics Condensed Matter, 2022, , .	0.7	1
770	Pressure tuning of the Berry phase in $\text{BaMnSb}_{2}$ . Physical Review B, 2022, 105, .		
771	Quantum spin Hall insulating phase and van Hove singularities in Zintl single-quintuple-layer $\text{AM}_{2}\text{X}_{2}$ (A = Ca, Sr, or Ba; M = Zn or Cd; X = Sb or Bi) family. Applied Physics Reviews, 2022, 9, .	5.5	17
772	In-plane electric and exchange fields engineered corner state bismuthene quantum dots. Physica B: Condensed Matter, 2022, 630, 413641.	1.3	2
773	Surface electronic corrugation of a one-dimensional topological metal: Bi(114). Physical Chemistry Chemical Physics, 2022, 24, 9146-9155.	1.3	3
774	Nonlinear Quantum Electrodynamics in Dirac Materials. Physical Review Letters, 2022, 128, 066402.	2.9	9
775	Structural deformation and metal-semiconductor transition in coupled carbon chains. Carbon Trends, 2022, 7, 100163.	1.4	2
776	Non-Hermitian Total-Loss High-Order Topological Insulator Based on 1d Su-Schrieffer-Heeger (Ssh). SSRN Electronic Journal, 0, , .	0.4	0
777	Simulating and Studying the Topological Properties of the Photon-Phonon in a One-Dimensional Superconducting Circuit Lattice. SSRN Electronic Journal, 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
778	A first-principles investigation of pressure induced topological phase transitions in half-Heusler AgSrBi. <i>Materials Advances</i> , 2022, 3, 3938-3944.	2.6	6
779	Pressure dependence of superconductivity in alkali-Bi compounds $\text{KBi}_2$ and $\text{RbBi}_2$ . <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7185-7194.	1.3	4
780	Structural and superconducting properties of low-temperature ultrathin $\text{PbBi}_3$ films. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, 71, 127401.	0.2	2
781	An ideal Weyl nodal ring with a large drumhead surface state in the orthorhombic compound $\text{TiS}_2$ . <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8208-8216.	1.3	1
782	Realizing topological edge states with Rydberg-atom synthetic dimensions. <i>Nature Communications</i> , 2022, 13, 972.	5.8	36
783	Designing light-element materials with large effective spin-orbit coupling. <i>Nature Communications</i> , 2022, 13, 919.	5.8	26
784	Phononic real Chern insulator with protected corner modes in graphynes. <i>Physical Review B</i> , 2022, 105, .	1.1	16
785	éžžŽ,ç±³æ“æ%‘é†âæ€ä,çš,,ç—...æ€â’CEââ„. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2022, , .	0.2	0
786	Ferromagnetism in armchair graphene nanoribbon heterostructures. <i>Physical Review B</i> , 2022, 105, .	1.1	3
787	Hydrostatic pressure-induced magnetic and topological phase transitions in the $\text{MnBi}_2$ family of materials. <i>Physical Review B</i> , 2022, 105, .	1.1	18
788	Phononic nodal points with quadratic dispersion and multifold degeneracy in the cubic compound $\text{Ta}_3$ . <i>Physical Review B</i> , 2022, 105, .	1.1	18
789	Electronic and topological properties of $\text{Bi}(110)$ ultrathin films grown on a $\text{Cu}(111)$ substrate. <i>Physical Review B</i> , 2022, 105, .	1.1	5
790	Prediction of topological Dirac semimetal in Ca-based Zintl layered compounds $\text{CaM}_2\text{X}_2$ ( $\text{M}=\text{Zn}$ or $\text{Cd}$ ). <i>Tj ETQq0 0,0 rgBT /Ov</i>	1.6	13
791	Signature of edge states in resonant wave scattering. <i>Physical Review A</i> , 2022, 105, .	1.0	2
792	Observation of multiple nodal lines in $\text{SmSbTe}$ . <i>Physical Review Materials</i> , 2022, 6, .	0.9	14
793	Hermitian chiral boundary states in non-Hermitian topological insulators. <i>Physical Review B</i> , 2022, 105, .	1.1	5
794	Linear magnetoresistance induced by mobility fluctuations in iodine-intercalated tungsten ditelluride. <i>Physical Review B</i> , 2022, 105, .	1.1	5
795	Topological transition and Majorana zero modes in 2D non-Hermitian chiral superconductor with anisotropy. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 195401.	0.7	6

#	ARTICLE	IF	CITATIONS
796	Topological Anderson insulators induced by random binary disorders. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 431, 128004.	0.9	6
797	Collective plasmonic modes in the chiral multifold fermionic material CoSi. Physical Review B, 2022, 105, .	1.1	9
798	Topological properties in non-Hermitian tetratomic Su-Schrieffer-Heeger lattices. Physical Review Research, 2022, 4, .	1.3	9
799	Direct observation of terahertz topological valley transport. Optics Express, 2022, 30, 14839.	1.7	15
800	Multi-orbital topoelectrical circuit for topological quantum states. Nano Futures, 2022, 6, 021001.	1.0	1
801	Exploring temperature dependent electron-electron interaction of rocksalt SnS and SnSe within Matsubara-time domain. Journal of Physics Condensed Matter, 2022, 34, 245501.	0.7	2
802	Mapping domain-wall topology in the magnetic Weyl semimetal CeAlSi. Physical Review B, 2021, 104, .	1.1	17
803	Amorphous $\text{Bi}_2\text{Te}_3$ structural, electronic, and topological nature from first principles. Physical Review B, 2021, 104, .	1.1	17
804	Manifestation of the Gyrotropy of Topological Media in Nonlinear Optical Processes. Bulletin of the Russian Academy of Sciences: Physics, 2021, 85, 1429-1433.	0.1	0
805	Spin waves in doped graphene: A time-dependent spin density functional approach to collective excitations in paramagnetic two-dimensional Dirac fermion gases. Physical Review B, 2021, 104, .	1.1	0
806	Non-Hermitian bulk-boundary correspondence and singular behaviors of generalized Brillouin zone. New Journal of Physics, 2021, 23, 123007.	1.2	12
807	From atomic semimetal to topological nontrivial insulator. Physical Review B, 2022, 105, .	1.1	5
808	Interplay between anisotropic spin texture and large gap topological insulating phases in functionalized MXenes. Chinese Journal of Physics, 2022, 77, 2346-2354.	2.0	7
809	Electronic structure and resonant inelastic x-ray scattering in osmates. I. Perovskite $\text{NaOsO}_3$ . Physical Review B, 2022, 105, .	1.1	5
810	Antiferromagnetic second-order topological insulator with fractional mass-kink. Npj Computational Materials, 2022, 8, .	3.5	19
811	Observation of Degenerate Zero-Energy Topological States at Disclinations in an Acoustic Lattice. Physical Review Letters, 2022, 128, 174301.	2.9	35
812	Theory of topological superconductivity in doped IV-VI semiconductors. Physical Review B, 2022, 105, .	1.1	0
813	Observation of a linked-loop quantum state in a topological magnet. Nature, 2022, 604, 647-652.	13.7	18

#	ARTICLE	IF	CITATIONS
814	Weak antilocalization and electron-electron interactions in topological insulator $\text{Bi}_2\text{Se}_3$ films deposited by sputtering on Si(100). <i>Physical Review Materials</i> , 2022, 6, .	0.9	19
815	Light-Driven Topological and Magnetic Phase Transitions in Thin Layer Antiferromagnets. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4152-4158.	2.1	13
816	Topological states in superlattices of HgTe class of materials for engineering three-dimensional flat bands. <i>Physical Review Research</i> , 2022, 4, .	1.3	11
817	Influence of hydrostatic pressure and concentration of Ge on the topological band order of SnSi1-Ge alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 281, 115742.	1.7	2
818	Design of Molecular Positive Electronic Transition Device. <i>Journal of Computational and Theoretical Nanoscience</i> , 2021, 18, 1714-1723.	0.4	0
819	Topology in non-Hermitian Chern insulators with skin effect. <i>Physical Review B</i> , 2022, 105, .	1.1	18
820	Magnetically tunable Dirac and Weyl fermions in the Zintl materials family. <i>Physical Review Materials</i> , 2022, 6, .	0.9	9
821	Switchable quantum anomalous and spin Hall effects in honeycomb magnet $\text{EuCd}_2\text{As}_2$ . <i>New Journal of Physics</i> , 2022, 24, 053038.	1.2	5
822	Complete classification of band nodal structures and massless excitations. <i>Physical Review B</i> , 2022, 105, .	1.1	20
823	$\text{TaAs}$ : A possible one-dimensional topological insulator. <i>Physical Review B</i> , 2022, 105, .	1.4	20
824	Single crystal growth and physical properties of layered compound $\text{SrCdBi}_2$ . <i>Journal of Physics Condensed Matter</i> , 2022, 34, 315701.	0.7	4
825	Angular momentum invoked band inversions in mirror symmetry protected topological states. <i>Physical Review B</i> , 2022, 105, .	1.1	1
826	Realizing exceptional points of any order in the presence of symmetry. <i>Physical Review Research</i> , 2022, 4, .	1.3	30
827	Non-Hermitian second-order topology induced by resistances in electric circuits. <i>Physical Review B</i> , 2022, 105, .	1.1	16
828	Disorder-Driven Collapse of Topological Phases in Photonic Topological Insulator. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, .	0.7	5
829	Evidence of phase stability, topological phonon and temperature-induced topological phase transition in rocksalt SnS and SnSe. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 325601.	0.7	3
830	Doubled quantum spin Hall effect with high-spin Chern number in $\text{Bi}_2\text{Te}_3$ -antimonene and $\text{Bi}_2\text{Se}_3$ -bismuthene. <i>Physical Review B</i> , 2022, 105, .	1.1	11
831	Topological hall transport: Materials, mechanisms and potential applications. <i>Progress in Materials Science</i> , 2022, 130, 100971.	16.0	27

#	ARTICLE	IF	CITATIONS
832	Ab-initio study of topological phase tuning in Half-Heusler YPdBi compound. <i>Physica B: Condensed Matter</i> , 2022, 640, 414056.	1.3	4
833	Modulation of topological phase transitions and topological quantum states in one-dimensional superconducting transmission line cavities lattice. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, 71, 194203.	0.2	3
834	Evolution of the Chern Gap in Kagome Magnet $\text{HoMn}_6\text{Sn}_6\text{xGe}_x$ . <i>Condensed Matter</i> , 2022, 7, 40.	0.8	2
835	Electronic and topological band evolution of VB-group transitionmetal monocarbides $\text{M}_2\text{C}$ ( $\text{M}=\text{V}, \text{Nb}$ ). <i>Tj ETQq1 1 0,784314 rgBT /Overl</i>	0,9	4
836	Lorentzâ€Boostâ€Driven Magnetoâ€Optics in a Dirac Nodalâ€Line Semimetal. <i>Advanced Science</i> , 2022, 9, .	5.6	7
837	Geometry-dependent skin effects in reciprocal photonic crystals. <i>Nanophotonics</i> , 2022, 11, 3447-3456.	2.9	14
838	Chern insulator in a hyperbolic lattice. <i>Physical Review B</i> , 2022, 105, .	1.1	19
839	Engineering topological state transfer in four-period Su-Schrieffer-Heeger chain. <i>Chinese Physics B</i> , 0, , .	0.7	1
840	Pressure engineering of intertwined phase transitions in lanthanide monopnictide $\text{NdSb}$ . <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, .	2.0	2
841	Location and Topology of the Fundamental Gap in Photonic Crystals. <i>Physical Review X</i> , 2022, 12, .	2.8	9
842	Exact Mobility Edges and Topological Anderson Insulating Phase in a Slowly Varying Quasiperiodic Model. <i>Annalen Der Physik</i> , 2022, 534, .	0.9	1
843	Topological Properties of a Two-Dimensional Photonic Square Lattice without $\langle i \rangle C \langle i \rangle_{\langle sub \rangle 4 \langle /sub \rangle}$ and $\langle i \rangle M \langle i \rangle_{\langle sub \rangle \langle i \rangle x \langle i \rangle (\langle i \rangle y \langle i \rangle) \langle /sub \rangle}$ Symmetries. <i>ACS Photonics</i> , 2022, 9, 2448-2454.	3.2	6
844	Evolution of surface states of antiferromagnetic topological insulator $\text{MnBi}_{\langle sub \rangle 2 \langle /sub \rangle} \text{Te}_{\langle sub \rangle 4 \langle /sub \rangle}$ with tuning the surface magnetization. <i>New Journal of Physics</i> , 2022, 24, 073034.	1.2	7
845	Observation of bandgap closing in $\text{Sr} \langle i \rangle x \langle i \rangle \text{Ba} 1 \hat{~} \langle i \rangle x \langle i \rangle \text{BiO}_3$ films: Evidence toward topological order in $\text{BaBiO}_3$ . <i>Journal of Applied Physics</i> , 2022, 132, .	1.1	1
846	Polarization-Induced Phase Transitions in Ultra-Thin InGaN-Based Double Quantum Wells. <i>Nanomaterials</i> , 2022, 12, 2418.	1.9	2
847	Canted antiferromagnetic phases in the candidate layered Weyl material $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{EuMnSb} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Te} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle$ . <i>Physical Review B</i> , 2022, 106, .		
848	Chiral hinge transport in disordered non-Hermitian second-order topological insulators. <i>Physical Review B</i> , 2022, 106, .	1.1	2
849	Orbital Shiftâ€Induced Boundary Obstructed Topological Materials with a Large Energy Gap. <i>Advanced Science</i> , 0, , 2202564.	5.6	5

#	ARTICLE	IF	CITATIONS
850	Bulk localized transport states in infinite and finite quasicrystals via magnetic aperiodicity. <i>Physical Review B</i> , 2022, 106, .	1.1	6
851	Second-order and real Chern topological insulator in twisted bilayer $\pm$ -graphyne. <i>Physical Review B</i> , 2022, 106, .	1.1	6
852	Ultrafast relaxation of acoustic and optical phonons in a topological nodal-line semimetal ZrSiS. <i>Communications Physics</i> , 2022, 5, .	2.0	3
854	Rashba-like physics in condensed matter. <i>Nature Reviews Physics</i> , 2022, 4, 642-659.	11.9	44
855	Phononic quadratic nodal lines of different types in $\text{Li}_2\text{NaN}$ . <i>Applied Physics Letters</i> , 2022, 121, 053102.	1.5	10
856	Fermi surface of the chiral topological semimetal PtGa. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 425502.	0.7	1
857	Aslamazov Larkin conductivity in layered Dirac/Weyl semimetals. <i>Physica C: Superconductivity and Its Applications</i> , 2022, 602, 1354123.	0.6	0
858	Evidence for Topological Features in the Electronic and Phononic Bands of ZGeSb (Z = Hf, Zr, Ti) Class of Compounds. <i>Journal of Physics Condensed Matter</i> , 0, , .	0.7	0
859	Quadratic nodal line phonon with hybrid type in hexagonal compound SrCuSi. <i>Results in Physics</i> , 2022, 41, 105953.	2.0	2
860	An ab initio approach to understand the structural, thermophysical, electronic, and optical properties of binary silicide SrSi: A double Weyl semimetal. <i>Results in Physics</i> , 2022, 42, 105973.	2.0	3
861	Simulating and studying the topological properties of the photon-phonon coupled modes in a one-dimensional superconducting circuit lattice. <i>Results in Physics</i> , 2022, 42, 105999.	2.0	2
862	Prediction of van Hove singularities, excellent thermoelectric performance, and non-trivial topology in monolayer rhenium dichalcogenides. <i>Materials Today Communications</i> , 2022, 33, 104468.	0.9	5
863	Machine Learning Spectral Indicators of Topology. <i>Springer Theses</i> , 2022, , 79-93.	0.0	1
864	Simulation and detection of the topological properties of phonon-photon in frequency-tunable optomechanical lattice. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, 71, 224202.	0.2	3
865	Non-Hermitian Skin Effect in Disordered Non-Hermitian Su-Schrieffer-Heeger. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, .	0.2	0
866	Hydrogenated Carbon Monolayer in Biphenylene Network Offers a Potential Paradigm for Nanoelectronic Devices. <i>Journal of Physical Chemistry C</i> , 2022, 126, 15491-15500.	1.5	8
867	Investigation of structural and magneto-transport properties of PdTe <sub>2</sub> single crystals. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	1.1	3
868	Identifying topological superconductivity in two-dimensional transition-metal dichalcogenides. <i>Physical Review Materials</i> , 2022, 6, .	0.9	4

#	ARTICLE	IF	CITATIONS
869	Observation of anisotropic Dirac cones in the topological material $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$ . Physical Review B, 2022, 106, .		
870			



#	ARTICLE	IF	CITATIONS
887	Manipulation of the Magnetoresistance by Strain in Topological TaSe <sub>3</sub> . Advanced Quantum Technologies, 2022, 5, .	1.8	1
888	Second-order topological corner states in zigzag graphene nanoflake with different types of edge magnetic configurations. Physical Review B, 2022, 106, .	1.1	8
889	Robust Second-Order Topological Insulators with Giant Valley Polarization in Two-Dimensional Honeycomb Ferromagnets. Nano Letters, 2023, 23, 91-97.	4.5	20
890	Link between Zitterbewegung and topological phase transitions. Physical Review B, 2022, 106, .	1.1	3
891	Two-Dimensional Nodal-Loop Semimetal in Monolayer Zn4C2. Journal of Electronic Materials, 0, , .	1.0	0
892	Experimental Identification of the Second-Order Non-Hermitian Skin Effect with Physics-Informed Machine Learning. Advanced Science, 2022, 9, .	5.6	27
893	Topological properties of subsystem-symmetry-protected edge states in an extended quasi-one-dimensional dimerized lattice. Physical Review B, 2022, 106, .	1.1	11
894	Topological hinge modes in Dirac semimetals. Frontiers of Physics, 2023, 18, .	2.4	8
895	Large Gap Topological Insulating Phase and Anisotropic Rashba and Chiral Spin Textures in Monolayer Zintl A <sub>2</sub> MX <sub>2</sub> . ACS Applied Electronic Materials, 2022, 4, 5308-5316.	2.0	1
896	Synthesis of Ultrathin Topological Insulator $\text{I}^2\text{Ag}_2\text{Te}$ and $\text{Ag}_2\text{Te}/\text{WSe}_2$ -Based High-Performance Photodetector. Small, 2023, 19, .	5.2	7
897	Intrinsic Second-Order Topological Insulator in Two-Dimensional Covalent Organic Frameworks. Journal of Physical Chemistry Letters, 2022, 13, 10905-10911.	2.1	5
898	Time- and angle-resolved photoemission spectroscopy (TR-ARPES) of TMDC monolayers and bilayers. Chemical Science, 2023, 14, 736-750.	3.7	4
899	Non-Hermitian total-loss high-order topological insulator based on 1D Su-Schrieffer-Heeger (SSH). Physica B: Condensed Matter, 2023, 650, 414570.	1.3	2
900	Half-Heusler d <sub>0</sub> -d gapless semiconductors as strong Z <sub>2</sub> topological insulators. Materials Chemistry and Physics, 2023, 295, 127119.	2.0	4
901	Bulk-edge correspondence for Floquet topological phases in honeycomb nanoribbon. International Journal of Modern Physics B, 0, , .	1.0	0
902	Amorphous Kane-Mele model in disordered hyperuniform two-dimensional networks. Physical Review B, 2022, 106, .	1.1	3
903	Topology and Symmetry in Quantum Materials. Advanced Materials, 2023, 35, .	11.1	10
904	Tunable bulk photovoltaic effect in strained $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" \rangle \langle \text{mml:mi} \rangle \hat{I}^3 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -GeSe. Physical Review B, 2022, 106, .	1.1	0

#	ARTICLE	IF	CITATIONS
905	Axion insulators protected by $C_2T$ symmetry, their $K$ -theory invariants, and material realizations. Physical Review B, 2022, 106, .	1.1	1
906	Wire construction of class DIII topological crystalline superconductors in two dimensions. Physical Review B, 2022, 106, .	1.1	0
907	Topological disclination states for surface acoustic waves. Physical Review B, 2022, 106, .	1.1	2
908	Role of the Berry curvature on BCS-type superconductivity in two-dimensional materials. Physical Review B, 2022, 106, .	1.1	0
909	Topological insulator-based nonlinear optical effects and functional devices. Journal of Nonlinear Optical Physics and Materials, 0, .	1.1	1
911	Symmetry-enforced planar nodal chain phonons in non-symmorphic materials. Journal of Applied Physics, 2022, 132, .	1.1	4
912	All hourglass bosonic excitations in the 1651 magnetic space groups and 528 magnetic layer groups. Physical Review Materials, 2022, 6, .	0.9	0
913	Topological phase transitions without symmetry indication in $\text{NaZnSb}_{1-x}\text{Bi}_x$ . Scientific Reports, 2022, 12, .	1.6	1
914	Electronic and topological properties of extended two-dimensional Su-Schrieffer-Heeger models and realization of flat edge bands. Physical Review B, 2022, 106, .	1.1	2
915	Multiple-symmetry-protected lantern-like nodal walls in lithium-rich compound $\text{LiRuO}_2$ . Frontiers in Physics, 0, 10, .	1.0	0
916	Chern numbers of topological phonon band crossing determined with inelastic neutron scattering. Physical Review B, 2022, 106, .	1.1	7
917	Topological Surface States in a Gyroid Acoustic Crystal. Advanced Science, 2023, 10, .	5.6	4
918	The evolution of topological singularities between real- and complex-frequency domains and the engineering of photonic bands for Hermitian and non-Hermitian photonic crystals. New Journal of Physics, 2022, 24, 123042.	1.2	2
919	In-plane Quantum Anomalous Hall Effect in Ferromagnetic Type-II Nodal Line Semimetal of Monolayer YbN. Physica Status Solidi (B): Basic Research, 2023, 260, .	0.7	0
920	Unconventional resistivity scaling in topological semimetal CoSi. Npj Quantum Materials, 2023, 8, .	1.8	3
921	Critical and topological phases of dimerized Kitaev chain in presence of quasiperiodic potential. Physical Review B, 2023, 107, .	1.1	1
922	Magnon corner states in twisted bilayer honeycomb magnets. Physical Review B, 2023, 107, .	1.1	11
923	Ideal quadratic fermionic point state with multiple band degeneracy. Applied Physics Letters, 2023, 122, .	1.5	2

#	ARTICLE	IF	CITATIONS
924	Ferroelectric higher-order topological insulator in two dimensions. <i>Physical Review B</i> , 2023, 107, .	1.1	5
925	Stacking-induced Chern insulator. <i>Physical Review B</i> , 2023, 107, .	1.1	1
926	Unsupervised Data-Driven Classification of Topological Gapped Systems with Symmetries. <i>Physical Review Letters</i> , 2023, 130, .	2.9	5
927	Engineering Second-Order Corner States in 2D Multiferroics. <i>Small</i> , 2023, 19, .	5.2	3
928	The impact of electron phonon scattering on transport properties of topological insulators: A first principles quantum transport study. <i>Solid-State Electronics</i> , 2023, 201, 108587.	0.8	3
929	Multifold Fermions and Fermi Arcs Boosted Catalysis in Nanoporous Electride $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ . <i>Advanced Science</i> , 2023, 10, .	5.6	26
930	Higher-Order Topological States in Photonic Thue-Morse Quasicrystals: Quadrupole Insulator and the Origin of Corner States. <i>Physical Review Applied</i> , 2022, 18, .	1.5	6
931	Switchable large-gap quantum spin Hall state in the two-dimensional $M\text{Si}_2\text{Z}_4$ class of materials. <i>Physical Review B</i> , 2022, 106, .	1.1	8
932	éžá“æœÿä½“ç³»æ“æ%‘ç%©æ€çš,,ç”ç©¶è;å±•. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2023, , .	0.2	0
933	Electronic structure and x-ray magnetic circular dichroism in cr-doped topological insulator $\text{Bi}_2\text{Se}_3$ . <i>Low Temperature Physics</i> , 2023, 49, 120-129.	0.2	1
934	Topogivity: A Machine-Learned Chemical Rule for Discovering Topological Materials. <i>Nano Letters</i> , 2023, 23, 772-778.	4.5	2
935	Observation of Dirac Charge-Density Waves in $\text{Bi}_2\text{Te}_2\text{Se}$ . <i>Nanomaterials</i> , 2023, 13, 476.	1.9	2
936	Out-of-time-order correlation as a witness for topological phase transitions. <i>Physical Review B</i> , 2023, 107, .	1.1	2
937	Two-dimensional superconductors with intrinsic p-wave pairing or nontrivial band topology. <i>Science China: Physics, Mechanics and Astronomy</i> , 2023, 66, .	2.0	9
938	Topological semimetal phase and dynamical characterization in a non-Hermitian two-leg ladder model. <i>Physical Review B</i> , 2023, 107, .	1.1	3
939	Influence of topological artificial atom chain on the transmission properties of cavity. <i>Optics Express</i> , 0, , .	1.7	0
940	Using optical systems to simulate topological systems in momentum space and measure their topological numbers. <i>Physics Open</i> , 2023, 15, 100145.	0.7	0
941	Microstructural and magnetic properties of $\text{Mn}_2\text{FeSi}$ and $\text{Mn}_2\text{FeAl}$ alloys prepared in bulk form. <i>Journal of Alloys and Compounds</i> , 2023, 947, 169672.	2.8	6

#	ARTICLE	IF	CITATIONS
942	Uncertainty quantification in inerter-based quasiperiodic lattices. <i>International Journal of Mechanical Sciences</i> , 2023, 249, 108258.	3.6	2
943	Topological Phase Transition and Lattice Dynamical Properties of Half-Heusler XPtBi (X = Gd, Nd). <i>Physica Status Solidi (B): Basic Research</i> , 2023, 260, .	0.7	1
944	Topological nature of large bulk band gap materials Sr <sub>3</sub> Bi <sub>2</sub> and Ca <sub>3</sub> Bi <sub>2</sub> . <i>Physica Scripta</i> , 2023, 98, 035813.	1.2	1
945	Quadratic pseudospectrum for identifying localized states. <i>Journal of Mathematical Physics</i> , 2023, 64, .	0.5	6
946	Topological superconducting vortex from trivial electronic bands. <i>Nature Communications</i> , 2023, 14, .	5.8	2
947	Entanglement signature of hinge arcs, Fermi arcs, and crystalline symmetry protection in higher-order Weyl semimetals. <i>Physical Review B</i> , 2023, 107, .	1.1	1
948	Generalized topological bulk-edge correspondence in bulk-Hermitian continuous systems with non-Hermitian boundary conditions. <i>Physical Review B</i> , 2023, 107, .	1.1	1
949	Creation of chiral interface channels for quantized transport in magnetic topological insulator multilayer heterostructures. <i>Nature Communications</i> , 2023, 14, .	5.8	7
950	Unidirectional spin-wave edge modes in magnonic crystal. <i>APL Materials</i> , 2023, 11, .	2.2	5
951	Exploring interacting topological insulator in the extended Su-Schrieffer-Heeger model. <i>Physical Review B</i> , 2023, 107, .	1.1	2
952	The Impact of Electron Phonon Scattering, Finite Size and Lateral Electric Field on Transport Properties of Topological Insulators: A First Principles Quantum Transport Study. <i>Materials</i> , 2023, 16, 1603. <a href="#">inciples studies of electronic properties in a</a>	1.3	3
953	<a href="#">xmllns:mml="http://www.w3.org/1998/Math/MathML"&gt;&lt;mml:msub&gt;&lt;mml:mi mathvariant="normal"&gt;Pt&lt;/mml:mi&gt;&lt;mml:mn&gt;2&lt;/mml:mn&gt;&lt;/mml:msub&gt;&lt;mml:msub&gt;&lt;mml:mi mathvariant="normal"&gt;CdSe&lt;/mml:mi&gt;&lt;mml:mn&gt;3&lt;/mml:mn&gt;&lt;/mml:msub&gt;&lt;mml:mo&gt;/&lt;/mml:mo&gt;&lt;mml:msub&gt;&lt;mml:mi mathvariant="normal"&gt;Pt&lt;/mml:mi&gt;&lt;mml:mn&gt;2&lt;/mml:mn&gt;&lt;/mml:msub&gt;&lt;mml:msub&gt;&lt;mml:mi mathvariant="normal"&gt;HgSe&lt;/mml:mi&gt;&lt;mml:mn&gt;3&lt;/mml:mn&gt;&lt;/mml:msub&gt;&lt;/mml:math&gt;</a> Kane-Mele		0
954	Non-trivial topological crossover in functionalized AlBi monolayer. <i>Chemical Physics Letters</i> , 2023, 816, 140388.	1.2	0
955	Non-Hermitian Weyl fermions of types III and IV: Hamiltonian, topological protection, and Landau levels. <i>Physical Review B</i> , 2023, 107, .	1.1	1
956	Hyperbolic band topology with non-trivial second Chern numbers. <i>Nature Communications</i> , 2023, 14, .	5.8	22
957	Monolayer and bilayer <a href="#">xmllns:mml="http://www.w3.org/1998/Math/MathML"&gt;&lt;mml:msub&gt;&lt;mml:mi&gt;PtCl&lt;/mml:mi&gt;&lt;mml:mn&gt;3&lt;/mml:mn&gt;&lt;/mml:msub&gt;&lt;/mml:math&gt;</a> : Energetics, magnetism, and band topology. <i>Physical Review B</i> , 2023, 107, .		
958	Topological Nodal Surface and Quadratic Dirac Semimetal States and van Hove Singularities in ScH <sub>3</sub> and LuH <sub>3</sub> Superconductors. <i>ACS Omega</i> , 2023, 8, 9607-9613.	1.6	4
959	Engineering axion insulator and other topological phases in superlattices without inversion symmetry. <i>Physical Review B</i> , 2023, 107, .	1.1	4

#	ARTICLE	IF	CITATIONS
960	Application of the real space decimation method in determining intricate electronic phases of matter: a review. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 9706-9737.	1.3	2
961	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{IrF} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle$ : From tetrahedral compass model to topological semimetal. <i>Physical Review B</i> , 2023, 107, .	1.1	1
962	Higher-order topological insulators in hyperbolic lattices. <i>Physical Review B</i> , 2023, 107, .	1.1	8
963	Superconducting topological Dirac semimetals: $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{P} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 6 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle$ and $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{P} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 6 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle$ <i>Physical Review B</i> , 2023, 107, .	1.1	1
964	Topological band inversion in HgTe(001): Surface and bulk signatures from photoemission. <i>Physical Review B</i> , 2023, 107, .	1.1	0
965	Vacancy-superlattice-induced higher-order topological corner states in a Chern insulator. <i>Europhysics Letters</i> , 2023, 142, 16002.	0.7	0
966	High-fidelity topological quantum state transfers in the cavity-magnon system. <i>Chinese Physics B</i> , 0, , .	0.7	1
967	Antiferromagnetic $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Fe} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Te} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Sb} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle$ formation at the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Sb} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle$ <i>Physical Review Materials</i> , 2023, 7, .	0.9	0
968	Non-Hermiticity induced topological edge states with unique transport. <i>Physica Scripta</i> , 2023, 98, 055503.	1.2	0
969	Quantized topological response in trapped quantum gases. <i>Physical Review A</i> , 2023, 107, .	1.0	4
970	Multiple phase transitions and anomalous non-Hermitian skin effect. <i>Physical Review B</i> , 2023, 107, .	1.1	2
971	Straight and twisted open nodal-line phonon states in the $\text{CaI}_{2/2}$ family of materials. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 10561-10566.	1.3	1
972	Quasi-periodic scattering of topological edge states induced by the vacancies in chloridized gallium bismuthide nanoribbons. <i>Journal of Physics Condensed Matter</i> , 2023, 35, 255302.	0.7	1
973	Orbital degree of freedom induced multiple sets of second-order topological states in two-dimensional breathing Kagome crystals. <i>Npj Quantum Materials</i> , 2023, 8, .	1.8	6
974	Topological Valley Photonic Crystals with Photonic Bandgap Tuned with Dual-parameter Method at Terahertz Frequencies. , 2022, , .		0
975	Plasmons in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="double-struck"} \rangle \text{Z} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ topological insulators. <i>Physical Review B</i> , 2023, 107, .	1.1	0
976	Topological properties in Aubry-Andr�-Harper model with $\langle i \rangle \text{p} \langle /i \rangle$ -wave superconducting pairing. <i>Progress of Theoretical and Experimental Physics</i> , 0, , .	1.8	0
977	Non-Hermitian photonic lattices: tutorial. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2023, 40, 1443.	0.9	11

#	ARTICLE	IF	CITATIONS
978	Acoustic Multiplexing Based on Higher-Order Topological Insulators with Combined Valley and Layer Degrees of Freedom. <i>Physical Review Applied</i> , 2023, 19, .	1.5	2
979	Causal structure of interacting Weyl fermions in condensed matter systems. <i>Nature Communications</i> , 2023, 14, .	5.8	0
980	In-Plane Anomalous Hall Effect in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mrow}> \langle \text{mml:mi mathvariant="script"> P T </mml:mi> </mml:mrow> </mml:math>$ -Symmetric Antiferromagnetic Materials. <i>Physical Review Letters</i> , 2023, 130, .	2.9	13
981	Transition Characteristics of Non-Hermitian Skin Effects in a Zigzag Lattice Without Chiral Symmetry. , 2023, 2, .		2
1003	Exotic rare earth-based materials for emerging spintronic technology. <i>Fundamental Theories of Physics</i> , 2023, , 99-140.	0.1	3
1010	Two-dimensional materials (2DMs): classification, preparations, functionalization and fabrication of 2DMs-oriented electrochemical sensors. , 2023, , 45-132.		0
1034	Angle-resolved photoemission of topological materials. , 2024, , 334-369.		0