

Yugui Yao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

202
papers

15,746
citations

54
h-index

123
g-index

221
ext. papers

18,802
ext. citations

6.5
avg, IF

6.89
L-index

#	Paper	IF	Citations
202	Determination of detonation characteristics by laser-induced plasma spectra and micro-explosion dynamics.. <i>Optics Express</i> , 2022 , 30, 4718-4736	3.3	2
201	No observation of chiral flux current in the topological kagome metal CsV3Sb5. <i>Physical Review B</i> , 2022 , 105,	3.3	1
200	Observation of One-Dimensional Dirac Fermions in Silicon Nanoribbons.. <i>Nano Letters</i> , 2022 , 22, 695-701	11.5	3
199	Systematic investigation of emergent particles in type-III magnetic space groups. <i>Physical Review B</i> , 2022 , 105,	3.3	2
198	Carrier Injection and Manipulation of Charge-Density Wave in Kagome Superconductor CsV3Sb5. <i>Physical Review X</i> , 2022 , 12,	9.1	1
197	MagneticTB: A package for tight-binding model of magnetic and non-magnetic materials. <i>Computer Physics Communications</i> , 2022 , 270, 108153	4.2	4
196	Controllable epitaxy of quasi-one-dimensional topological insulator Bi4Br4 for the application of saturable absorber. <i>Applied Physics Letters</i> , 2022 , 120, 093103	3.4	1
195	Controllable Growth of Bi and Antimonene by Interfacial Strain. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5022-5027	3.8	0
194	Electron-phonon coupling in the charge density wave state of CsV3Sb5. <i>Physical Review B</i> , 2022 , 105,	3.3	2
193	Quasi-one-dimensional topological material Bi4X4(X=Br,I). <i>Advances in Physics: X</i> , 2022 , 7,	5.1	0
192	Twofold symmetry of c-axis resistivity in topological kagome superconductor CsVSb with in-plane rotating magnetic field. <i>Nature Communications</i> , 2021 , 12, 6727	17.4	11
191	Observation of Topological Edge States on BiBr Nanowires Grown on TiSe Substrates. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10465-10471	6.4	2
190	Multiple energy scales and anisotropic energy gap in the charge-density-wave phase of the kagome superconductor CsV3Sb5. <i>Physical Review B</i> , 2021 , 104,	3.3	19
189	Weyl Monoloop Semi-Half-Metal and Tunable Anomalous Hall Effect. <i>Nano Letters</i> , 2021 , 21, 8749-8755	11.5	3
188	Observation of Nodal-Line Plasmons in ZrSiS. <i>Physical Review Letters</i> , 2021 , 127, 186802	7.4	2
187	Transport signatures of temperature-induced chemical potential shift and Lifshitz transition in layered type-II Weyl semimetal TaIrTe4. <i>2D Materials</i> , 2021 , 8, 015020	5.9	4
186	Direct identification of Mott Hubbard band pattern beyond charge density wave superlattice in monolayer 1T-NbSe. <i>Nature Communications</i> , 2021 , 12, 1978	17.4	12

185	Double Dirac nodal line semimetal with a torus surface state. <i>Physical Review B</i> , 2021 , 103,	3.3	7
184	Weyl nodal-line surface half-metal in CaFeO ₃ . <i>Physical Review B</i> , 2021 , 103,	3.3	3
183	Tailoring Dzyaloshinskii-Moriya interaction in a transition metal dichalcogenide by dual-intercalation. <i>Nature Communications</i> , 2021 , 12, 3639	17.4	2
182	Memristive Crossbar Arrays for Storage and Computing Applications. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2100017	6	18
181	Pressure-induced novel nitrogen-rich aluminum nitrides: AlN, AlN and AlN with polymeric nitrogen chains and rings. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 12350-12359	3.6	0
180	Engineering symmetry breaking in 2D layered materials. <i>Nature Reviews Physics</i> , 2021 , 3, 193-206	23.6	45
179	Robust Fano resonance in the photonic valley Hall states. <i>Physical Review A</i> , 2021 , 103,	2.6	9
178	Electromechanically reconfigurable optical nano-kirigami. <i>Nature Communications</i> , 2021 , 12, 1299	17.4	19
177	Type-III Weyl semimetals: (TaSe ₄) ₂ I. <i>Physical Review B</i> , 2021 , 103,	3.3	12
176	Origin of charge density wave in the kagome metal CsV ₃ Sb ₅ as revealed by optical spectroscopy. <i>Physical Review B</i> , 2021 , 104,	3.3	24
175	Crystal chirality magneto-optical effects in collinear antiferromagnets. <i>Physical Review B</i> , 2021 , 104,	3.3	2
174	Artificial Propeller Chirality and Counterintuitive Reversal of Circular Dichroism in Twisted Meta-molecules. <i>Nano Letters</i> , 2021 , 21, 6828-6834	11.5	5
173	Electronic nature of chiral charge order in the kagome superconductor CsV ₃ Sb ₅ . <i>Physical Review B</i> , 2021 , 104,	3.3	17
172	SpaceGroupRep: A package for irreducible representations of space group. <i>Computer Physics Communications</i> , 2021 , 265, 107993	4.2	9
171	Intermediate anomalous Hall states induced by noncollinear spin structure in the magnetic topological insulator MnBi ₂ Te ₄ . <i>Physical Review B</i> , 2021 , 104,	3.3	2
170	Linear magnetization dependence and large intrinsic anomalous Hall effect in Fe ₇₈ Si ₉ B ₁₃ metallic glasses. <i>Physical Review B</i> , 2021 , 104,	3.3	1
169	Memristive Crossbar Arrays for Storage and Computing Applications. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2170065	6	
168	Strong magneto-optical effect and anomalous transport in the two-dimensional van der Waals magnets Fe _n GeTe ₂ (n=3, 4, 5). <i>Physical Review B</i> , 2021 , 104,	3.3	4

167	Sign-reversible valley-dependent Berry phase effects in 2D valley-half-semiconductors. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	7
166	Tunable magneto-optical effect, anomalous Hall effect, and anomalous Nernst effect in the two-dimensional room-temperature ferromagnet $1T\bar{C}rTe_2$. <i>Physical Review B</i> , 2021 , 103,	3.3	3
165	A tunable and unidirectional one-dimensional electronic system $Nb_{2n+1}S_{n+1}Te_{4n+2}$. <i>Npj Quantum Materials</i> , 2020 , 5,	5	3
164	Topological magneto-optical effects and their quantization in noncoplanar antiferromagnets. <i>Nature Communications</i> , 2020 , 11, 118	17.4	16
163	Nodal Line Spin-Gapless Semimetals and High-Quality Candidate Materials. <i>Physical Review Letters</i> , 2020 , 124, 016402	7.4	21
162	Fano-Enhanced Circular Dichroism in Deformable Stereo Metasurfaces. <i>Advanced Materials</i> , 2020 , 32, e1907077	24	47
161	Tantalum disulfide quantum dots: preparation, structure, and properties. <i>Nanoscale Research Letters</i> , 2020 , 15, 20	5	5
160	Type-II topological metals. <i>Frontiers of Physics</i> , 2020 , 15, 1	3.7	4
159	Experimental evidence of monolayer AlB_2 with symmetry-protected Dirac cones. <i>Physical Review B</i> , 2020 , 101,	3.3	7
158	Valley-dependent properties of monolayer $MoSi_2N_4$, WSi_2N_4 , and $MoSi_2As_4$. <i>Physical Review B</i> , 2020 , 102,	3.3	55
157	Giant anomalous Nernst effect in noncollinear antiferromagnetic Mn-based antiperovskite nitrides. <i>Physical Review Materials</i> , 2020 , 4,	3.2	10
156	Fragile topologically protected perfect reflection for acoustic waves. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
155	Signature of band inversion in the antiferromagnetic phase of axion insulator candidate $EuIn_2As_2$. <i>Physical Review Research</i> , 2020 , 2,	3.9	7
154	Hole-doped room-temperature superconductivity in $H_3S_{1-x}Z$ ($Z=C, Si$). <i>Materials Today Physics</i> , 2020 , 15, 100330	8	20
153	Topologically nontrivial interband plasmons in type-II Weyl semimetal $MoTe_2$. <i>New Journal of Physics</i> , 2020 , 22, 103032	2.9	4
152	Van der Waals Epitaxial Growth of Two-Dimensional $BiOBr$ Flakes with Dendritic Structures for the Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11848-11854	6.1	3
151	Ferromagnetic hybrid nodal loop and switchable type-I and type-II Weyl fermions in two dimensions. <i>Physical Review B</i> , 2020 , 102,	3.3	49
150	Discovery of Weyl Nodal Lines in a Single-Layer Ferromagnet. <i>Physical Review Letters</i> , 2019 , 123, 116401	7.4	37

149	Two-dimensional spin-valley-coupled Dirac semimetals in functionalized SbAs monolayers. <i>Materials Horizons</i> , 2019 , 6, 781-787	14.4	21
148	Ultralow-temperature photochemical synthesis of atomically dispersed Pt catalysts for the hydrogen evolution reaction. <i>Chemical Science</i> , 2019 , 10, 2830-2836	9.4	58
147	Weakened interlayer coupling in two-dimensional MoSe ₂ flakes with screw dislocations. <i>Nano Research</i> , 2019 , 12, 1900-1905	10	15
146	Physical Fingerprints of the 2O-tB Phase in Phosphorene Stacking. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3190-3196	6.4	3
145	Fully Spin-Polarized Nodal Loop Semimetals in Alkaline Metal Monochalcogenide Monolayers. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3101-3108	6.4	20
144	Strongly distinct electrical response between circular and valley polarization in bilayer transition metal dichalcogenides. <i>Physical Review B</i> , 2019 , 99,	3.3	10
143	Weyl Nodal Point-Line Fermion in Ferromagnetic EuBi. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2508-2514	6.4	7
142	Spin-order dependent anomalous Hall effect and magneto-optical effect in the noncollinear antiferromagnets Mn ₃ XN with X=Ga, Zn, Ag, or Ni. <i>Physical Review B</i> , 2019 , 99,	3.3	25
141	Transport tuning of photonic topological edge states by optical cavities. <i>Physical Review A</i> , 2019 , 99,	2.6	14
140	Pressure-induced phase transitions and superconductivity in a quasi-1-dimensional topological crystalline insulator BiBr. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 17696-17700	11.5	18
139	Observation of Topological Edge States at the Step Edges on the Surface of Type-II Weyl Semimetal TaIrTe. <i>ACS Nano</i> , 2019 , 13, 9571-9577	16.7	11
138	Topological Nodal Line Electrdes: Realization of an Ideal Nodal Line State Nearly Immune from Spin-Orbit Coupling. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25871-25876	3.8	19
137	Robust circular polarization of indirect Q-K transitions in bilayer 3RWS ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	7
136	Two-dimensional antiferromagnetic Dirac fermions in monolayer TaCoTe ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	8
135	Pressure-tunable large anomalous Hall effect of the ferromagnetic kagome-lattice Weyl semimetal Co ₃ Sn ₂ S ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	9
134	Trends of the macroscopic behaviors of energetic compounds: insights from first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24034-24041	3.6	0
133	Robust edge photocurrent response on layered type II Weyl semimetal WTe. <i>Nature Communications</i> , 2019 , 10, 5736	17.4	30
132	Experimental observation of node-line-like surface states in LaBi. <i>Physical Review B</i> , 2018 , 97,	3.3	9

131	Temperature-driven evolution of critical points, interlayer coupling, and layer polarization in bilayer MoS ₂ . <i>Physical Review B</i> , 2018 , 97,	3-3	18
130	Tunable ferroelectricity and anisotropic electric transport in monolayer EGeSe. <i>Physical Review B</i> , 2018 , 97,	3-3	49
129	Nonsymmorphic-symmetry-protected hourglass Dirac loop, nodal line, and Dirac point in bulk and monolayer X ₃ SiTe ₆ (X = Ta, Nb). <i>Physical Review B</i> , 2018 , 97,	3-3	71
128	Trigonal warping induced unusual spin texture and strong spin polarization in graphene with the Rashba effect. <i>Physical Review B</i> , 2018 , 97,	3-3	2
127	Control of the hyperbolic dispersion of dielectrics by an ultrashort laser pulse. <i>Physical Review B</i> , 2018 , 97,	3-3	5
126	An efficient method for hybrid density functional calculation with spin-orbit coupling. <i>Computer Physics Communications</i> , 2018 , 224, 90-97	4-2	2
125	From node-line semimetals to large-gap quantum spin Hall states in a family of pentagonal group-IVA chalcogenide. <i>Physical Review B</i> , 2018 , 97,	3-3	15
124	Robust ferroelectricity in two-dimensional SbN and BiP. <i>Nanoscale</i> , 2018 , 10, 7984-7990	7-7	52
123	Monolayer group-III monochalcogenides by oxygen functionalization: a promising class of two-dimensional topological insulators. <i>Npj Quantum Materials</i> , 2018 , 3,	5	43
122	Nodal-line semimetal states in the positive-electrode material of a lead-acid battery: Lead dioxide family and its derivatives. <i>Physical Review B</i> , 2018 , 98,	3-3	7
121	Thickness-dependent magneto-optical effects in hole-doped GaS and GaSe multilayers: a first-principles study. <i>New Journal of Physics</i> , 2018 , 20, 043048	2-9	9
120	High throughput screening for two-dimensional topological insulators. <i>2D Materials</i> , 2018 , 5, 045023	5-9	21
119	Quantum transport properties in single crystals of Bi ₄ I ₄ . <i>Physical Review Materials</i> , 2018 , 2,	3-2	10
118	Mirror protected multiple nodal line semimetals and material realization. <i>Physical Review B</i> , 2018 , 98,	3-3	13
117	Cat-cradle-like Dirac semimetals in layer groups with multiple screw axes: Application to two-dimensional borophene and borophane. <i>Physical Review B</i> , 2018 , 98,	3-3	11
116	High-Throughput Screening of Magnetic Antiperovskites. <i>Chemistry of Materials</i> , 2018 , 30, 6983-6991	9-6	19
115	Twist angle-dependent conductivities across MoS ₂ /graphene heterojunctions. <i>Nature Communications</i> , 2018 , 9, 4068	17-4	59
114	Unconventional Pairing Induced Anomalous Transverse Shift in Andreev Reflection. <i>Physical Review Letters</i> , 2018 , 121, 176602	7-4	6

113	High-Throughput Screening and Automated Processing toward Novel Topological Insulators. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6224-6231	6.4	16
112	Magnetization-direction tunable nodal-line and Weyl phases. <i>Physical Review B</i> , 2018 , 98,	3.3	8
111	Magnetotransport Properties of Graphene Nanoribbons with Zigzag Edges. <i>Physical Review Letters</i> , 2018 , 120, 216601	7.4	19
110	Almost ideal nodal-loop semimetal in monoclinic CuTeO3 material. <i>Physical Review B</i> , 2018 , 97,	3.3	20
109	Topological, Valleytronic, and Optical Properties of Monolayer PbS. <i>Advanced Materials</i> , 2017 , 29, 1604788	2.8	20
108	Multilayered Electride CaN Electrode via Compression Molding Fabrication for Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6666-6669	9.5	36
107	Self-assembled chiral phosphorus nanotubes from phosphorene: a molecular dynamics study. <i>RSC Advances</i> , 2017 , 7, 24647-24651	3.7	16
106	Artificial gravity field, astrophysical analogues, and topological phase transitions in strained topological semimetals. <i>Npj Quantum Materials</i> , 2017 , 2,	5	80
105	Computational characterization of monolayer C3N: A two-dimensional nitrogen-graphene crystal. <i>Journal of Materials Research</i> , 2017 , 32, 2993-3001	2.5	82
104	Double reflection and tunneling resonance in a topological insulator: Towards the quantification of warping strength by transport. <i>Physical Review B</i> , 2017 , 96,	3.3	4
103	Promising ferroelectricity in 2D group IV tellurides: a first-principles study. <i>Applied Physics Letters</i> , 2017 , 111, 132904	3.4	72
102	Experimental realization of two-dimensional Dirac nodal line fermions in monolayer CuSi. <i>Nature Communications</i> , 2017 , 8, 1007	17.4	138
101	Graphene Foam: Uniaxial Tension Behavior and Fracture Mode Based on a Mesoscopic Model. <i>ACS Nano</i> , 2017 , 11, 8988-8997	16.7	28
100	Tunable half-metallic magnetism in an atom-thin holey two-dimensional C2N monolayer. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8424-8430	7.1	33
99	Simulations of twisted bilayer orthorhombic black phosphorus. <i>Physical Review B</i> , 2017 , 96,	3.3	16
98	Type-II nodal loops: Theory and material realization. <i>Physical Review B</i> , 2017 , 96,	3.3	110
97	From Type-II Triply Degenerate Nodal Points and Three-Band Nodal Rings to Type-II Dirac Points in Centrosymmetric Zirconium Oxide. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5792-5797	6.4	49
96	Large magneto-optical effects in hole-doped blue phosphorene and gray arsenene. <i>Nanoscale</i> , 2017 , 9, 17405-17414	7.7	16

95	Manipulation of the dielectric properties of diamond by an ultrashort laser pulse. <i>Physical Review B</i> , 2017 , 95,	3.3	15
94	Tunable hyperbolic dispersion and negative refraction in natural electride materials. <i>Physical Review B</i> , 2017 , 95,	3.3	40
93	Tunable magneto-optical effects in hole-doped group-III A metal-monochalcogenide monolayers. <i>2D Materials</i> , 2017 , 4, 015017	5.9	35
92	Tunable Intrinsic Plasmons due to Band Inversion in Topological Materials. <i>Physical Review Letters</i> , 2017 , 119, 266804	7.4	7
91	Two-dimensional spin-orbit Dirac point in monolayer HfGeTe. <i>Physical Review Materials</i> , 2017 , 1,	3.2	45
90	First-principles investigations on the Berry phase effect in spin-orbit coupling materials. <i>Computational Materials Science</i> , 2016 , 112, 428-447	3.2	12
89	Theoretical prediction of MoN ₂ monolayer as a high capacity electrode material for metal ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15224-15231	13	154
88	Borophene as an extremely high capacity electrode material for Li-ion and Na-ion batteries. <i>Nanoscale</i> , 2016 , 8, 15340-7	7.7	272
87	First-principles demonstration of superconductivity at 280 K in hydrogen sulfide with low phosphorus substitution. <i>Physical Review B</i> , 2016 , 93,	3.3	65
86	Weak Topological Insulators and Composite Weyl Semimetals: Bi ₄ X ₄ (X=Br, I). <i>Physical Review Letters</i> , 2016 , 116, 066801	7.4	56
85	Even-odd layer-dependent magnetotransport of high-mobility Q-valley electrons in transition metal disulfides. <i>Nature Communications</i> , 2016 , 7, 12955	17.4	64
84	Extraction of state-resolved information from systems with a fractional number of electrons within the framework of time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2016 , 145, 114104	3.0	2
83	Quantum anomalous Hall effect in stanene on a nonmagnetic substrate. <i>Physical Review B</i> , 2016 , 94,	3.3	24
82	Rise of silicene: A competitive 2D material. <i>Progress in Materials Science</i> , 2016 , 83, 24-151	42.2	548
81	Predicted Unusual Magnetoresponse in Type-II Weyl Semimetals. <i>Physical Review Letters</i> , 2016 , 117, 077202	7.4	152
80	Quantum Anomalous Hall Effect in Graphene-based Heterostructure. <i>Scientific Reports</i> , 2015 , 5, 10629	4.9	41
79	Topological edge states in single- and multi-layer Bi ₄ Br ₄ . <i>New Journal of Physics</i> , 2015 , 17, 015004	2.9	24
78	Possible electric-field-induced superconducting states in doped silicene. <i>Scientific Reports</i> , 2015 , 5, 82034.9	3.9	37

77	2D Electrides as Promising Anode Materials for Na-Ion Batteries from First-Principles Study. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24016-22	9.5	126
76	Electronic structures and theoretical modelling of two-dimensional group-VIB transition metal dichalcogenides. <i>Chemical Society Reviews</i> , 2015 , 44, 2643-63	58.5	398
75	Valley-polarized quantum anomalous Hall phase and disorder-induced valley-filtered chiral edge channels. <i>Physical Review B</i> , 2015 , 91,	3.3	29
74	Time-reversal-invariant topological superconductivity in n-doped BiH. <i>Physical Review B</i> , 2015 , 91,	3.3	16
73	Valley-polarized quantum anomalous Hall phases and tunable topological phase transitions in half-hydrogenated Bi honeycomb monolayers. <i>Physical Review B</i> , 2015 , 91,	3.3	36
72	Electric field controlled spin- and valley-polarized edge states in silicene with extrinsic Rashba effect. <i>Physical Review B</i> , 2015 , 92,	3.3	25
71	Robust quantum anomalous Hall effect in graphene-based van der Waals heterostructures. <i>Physical Review B</i> , 2015 , 92,	3.3	61
70	Topological p+ip superconductivity in doped graphene-like single-sheet materials BC3. <i>Physical Review B</i> , 2015 , 92,	3.3	16
69	Topological magnetic phase in LaMnO ₃ (111) bilayer. <i>Physical Review B</i> , 2015 , 92,	3.3	24
68	Large magneto-optical Kerr effect in noncollinear antiferromagnets Mn ₃ X(X=Rh,Ir,Pt). <i>Physical Review B</i> , 2015 , 92,	3.3	60
67	Electronic, Dielectric, and Plasmonic Properties of Two-Dimensional Electride Materials X ₂ N (X=Ca, Sr): A First-Principles Study. <i>Scientific Reports</i> , 2015 , 5, 12285	4.9	54
66	Effects of strain on electronic and optic properties of holey two-dimensional C ₂ N crystals. <i>Applied Physics Letters</i> , 2015 , 107, 231904	3.4	109
65	Liu et al. reply. <i>Physical Review Letters</i> , 2015 , 114, 099702	7.4	2
64	Formation of quantum spin Hall state on Si surface and energy gap scaling with strength of spin orbit coupling. <i>Scientific Reports</i> , 2014 , 4, 7102	4.9	62
63	Engineering topological surface states and giant Rashba spin splitting in BiTeI/Bi ₂ Te ₃ heterostructures. <i>Scientific Reports</i> , 2014 , 4, 3841	4.9	28
62	Valley-polarized quantum anomalous Hall effect in silicene. <i>Physical Review Letters</i> , 2014 , 112, 106802	7.4	248
61	Probing the topological phase transition via density oscillations in silicene and germanene. <i>Physical Review B</i> , 2014 , 89,	3.3	46
60	Low-energy effective Hamiltonian for giant-gap quantum spin Hall insulators in honeycomb X-hydride/halide (X=NBi) monolayers. <i>Physical Review B</i> , 2014 , 90,	3.3	102

59	Investigations on V2C and V2CX2 (X = F, OH) Monolayer as a Promising Anode Material for Li Ion Batteries from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24274-24281	3.8	215
58	Large-gap quantum spin Hall insulator in single layer bismuth monobromide Bi4Br4. <i>Nano Letters</i> , 2014 , 14, 4767-71	11.5	125
57	Effect of doping and strain modulations on electron transport in monolayer MoS2. <i>Physical Review B</i> , 2014 , 90,	3.3	49
56	Quantum spin Hall insulators and quantum valley Hall insulators of BiX/SbX (X=H, F, Cl and Br) monolayers with a record bulk band gap. <i>NPG Asia Materials</i> , 2014 , 6, e147-e147	10.3	216
55	Topological metallic phases in spin-orbit coupled bilayer systems. <i>New Journal of Physics</i> , 2014 , 16, 123015	15.9	14
54	Quantum spin Hall and Z2 metallic states in an organic material. <i>Physical Review B</i> , 2014 , 90,	3.3	59
53	Intervalley coupling by quantum dot confinement potentials in monolayer transition metal dichalcogenides. <i>New Journal of Physics</i> , 2014 , 16, 105011	2.9	49
52	Core hole effect on topological band order in cubic semiconductors: A first-principles study. <i>Europhysics Letters</i> , 2014 , 106, 27008	1.6	1
51	Epitaxial growth of single-domain graphene on hexagonal boron nitride. <i>Nature Materials</i> , 2013 , 12, 792-7	7.7	745
50	Observation of Dirac cone warping and chirality effects in silicene. <i>ACS Nano</i> , 2013 , 7, 9049-54	16.7	83
49	Chen et al. reply. <i>Physical Review Letters</i> , 2013 , 110, 229702	7.4	24
48	Interplay between different magnetisms in Cr-doped topological insulators. <i>ACS Nano</i> , 2013 , 7, 9205-12	16.7	94
47	Stability, electronic, and magnetic properties of the magnetically doped topological insulators Bi2Se3, Bi2Te3, and Sb2Te3. <i>Physical Review B</i> , 2013 , 88,	3.3	100
46	Topological phases in gated bilayer graphene: Effects of Rashba spin-orbit coupling and exchange field. <i>Physical Review B</i> , 2013 , 87,	3.3	33
45	Electronic structures of graphene layers on a metal foil: The effect of atomic-scale defects. <i>Applied Physics Letters</i> , 2013 , 103, 143120	3.4	31
44	Three-band tight-binding model for monolayers of group-VIB transition metal dichalcogenides. <i>Physical Review B</i> , 2013 , 88,	3.3	526
43	Phonon-mediated superconductivity in silicene predicted by first-principles density functional calculations. <i>Europhysics Letters</i> , 2013 , 104, 36001	1.6	45
42	Strain tuning of topological band order in cubic semiconductors. <i>Physical Review B</i> , 2012 , 85,	3.3	41

41	First-principles calculation of topological invariants within the FP-LAPW formalism. <i>Computer Physics Communications</i> , 2012 , 183, 1849-1859	4.2	41
40	Tailoring magnetic doping in the topological insulator Bi ₂ Se ₃ . <i>Physical Review Letters</i> , 2012 , 109, 266405	7.4	124
39	Three-dimensional topological insulators: A review on host materials. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012 , 55, 2199-2212	3.6	26
38	Intrinsic spin Hall effect in monolayers of group-VI dichalcogenides: A first-principles study. <i>Physical Review B</i> , 2012 , 86,	3.3	165
37	Evidence for Dirac fermions in a honeycomb lattice based on silicon. <i>Physical Review Letters</i> , 2012 , 109, 056804	7.4	577
36	Evidence of silicene in honeycomb structures of silicon on Ag(111). <i>Nano Letters</i> , 2012 , 12, 3507-11	11.5	1055
35	Theory of orbital magnetization in disordered systems. <i>Physical Review B</i> , 2012 , 86,	3.3	16
34	Microscopic theory of quantum anomalous Hall effect in graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	115
33	Low-energy effective Hamiltonian involving spin-orbit coupling in silicene and two-dimensional germanium and tin. <i>Physical Review B</i> , 2011 , 84,	3.3	938
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