

Shengyuan A Yang

List of Publications by Citations

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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.

186
papers

8,025
citations

51
h-index

84
g-index

206
ext. papers

10,776
ext. citations

7.2
avg, IF

6.62
L-index

#	Paper	IF	Citations
186	Quantum anomalous Hall effect in graphene from Rashba and exchange effects. <i>Physical Review B</i> , 2010 , 82,	3.3	461
185	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
184	Edge states in graphene: from gapped flat-band to gapless chiral modes. <i>Physical Review Letters</i> , 2009 , 102, 096801	7.4	253
183	Nanostructured Carbon Allotropes with Weyl-like Loops and Points. <i>Nano Letters</i> , 2015 , 15, 6974-8	11.5	248
182	Antimonene Oxides: Emerging Tunable Direct Bandgap Semiconductor and Novel Topological Insulator. <i>Nano Letters</i> , 2017 , 17, 3434-3440	11.5	217
181	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
180	Regulating the polysulfide redox conversion by iron phosphide nanocrystals for high-rate and ultrastable lithium-sulfur battery. <i>Nano Energy</i> , 2018 , 51, 340-348	17.1	202
179	Dirac and Weyl superconductors in three dimensions. <i>Physical Review Letters</i> , 2014 , 113, 046401	7.4	197
178	Large Spin-Valley Polarization in Monolayer MoTe2 on Top of EuO(111). <i>Advanced Materials</i> , 2016 , 28, 959-66	24	183
177	Evidence for topological type-II Weyl semimetal WTe. <i>Nature Communications</i> , 2017 , 8, 2150	17.4	160
176	Theoretical prediction of MoN2 monolayer as a high capacity electrode material for metal ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15224-15231	13	154
175	Predicted Unusual Magnetoresponse in Type-II Weyl Semimetals. <i>Physical Review Letters</i> , 2016 , 117, 077202	7.4	152
174	Universal electromotive force induced by domain wall motion. <i>Physical Review Letters</i> , 2009 , 102, 067201	7.4	145
173	Nodal surface semimetals: Theory and material realization. <i>Physical Review B</i> , 2018 , 97,	3.3	137
172	Towards three-dimensional Weyl-surface semimetals in graphene networks. <i>Nanoscale</i> , 2016 , 8, 7232-9	7.7	134
171	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
170	Type-II Symmetry-Protected Topological Dirac Semimetals. <i>Physical Review Letters</i> , 2017 , 119, 026404	7.4	112

169	Three-dimensional quantum Hall effect and metal-insulator transition in ZrTe. <i>Nature</i> , 2019 , 569, 537-544	10.4	110
168	Type-II nodal loops: Theory and material realization. <i>Physical Review B</i> , 2017 , 96,	3.3	110
167	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
166	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
165	Coexistence of four-band nodal rings and triply degenerate nodal points in centrosymmetric metal diborides. <i>Physical Review B</i> , 2017 , 95,	3.3	101
164	Nexus fermions in topological symmorphic crystalline metals. <i>Scientific Reports</i> , 2017 , 7, 1688	4.9	97
163	Investigations on Nb ₂ C monolayer as promising anode material for Li or non-Li ion batteries from first-principles calculations. <i>RSC Advances</i> , 2016 , 6, 27467-27474	3.7	96
162	Strain-Induced Isostructural and Magnetic Phase Transitions in Monolayer MoN ₂ . <i>Nano Letters</i> , 2016 , 16, 4576-82	11.5	94
161	Blue Phosphorene Oxide: Strain-Tunable Quantum Phase Transitions and Novel 2D Emergent Fermions. <i>Nano Letters</i> , 2016 , 16, 6548-6554	11.5	91
160	Field induced positional shift of Bloch electrons and its dynamical implications. <i>Physical Review Letters</i> , 2014 , 112, 166601	7.4	88
159	Magnetic control of the valley degree of freedom of massive Dirac fermions with application to transition metal dichalcogenides. <i>Physical Review B</i> , 2013 , 88,	3.3	87
158	Elemental Ferroelectricity and Antiferroelectricity in Group-V Monolayer. <i>Advanced Functional Materials</i> , 2018 , 28, 1707383	15.6	86
157	Electric-field-tuned topological phase transition in ultrathin NaBi. <i>Nature</i> , 2018 , 564, 390-394	50.4	85
156	Three-dimensional Pentagon Carbon with a genesis of emergent fermions. <i>Nature Communications</i> , 2017 , 8, 15641	17.4	81
155	Artificial gravity field, astrophysical analogues, and topological phase transitions in strained topological semimetals. <i>Npj Quantum Materials</i> , 2017 , 2,	5	80
154	Hourglass Dirac chain metal in rhenium dioxide. <i>Nature Communications</i> , 2017 , 8, 1844	17.4	79
153	Advances of 2D bismuth in energy sciences. <i>Chemical Society Reviews</i> , 2020 , 49, 263-285	58.5	78
152	Dirac and Weyl Materials: Fundamental Aspects and Some Spintronics Applications. <i>Spin</i> , 2016 , 06, 1640003	0.3	76

151	Multivariable scaling for the anomalous Hall effect. <i>Physical Review Letters</i> , 2015 , 114, 217203	7.4	74
150	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
149	Nodal loop and nodal surface states in the Ti ₃ Al family of materials. <i>Physical Review B</i> , 2018 , 97,	3.3	71
148	Two-dimensional ferroelectricity and switchable spin-textures in ultra-thin elemental Te multilayers. <i>Materials Horizons</i> , 2018 , 5, 521-528	14.4	68
147	Two-Dimensional Second-Order Topological Insulator in Graphdiyne. <i>Physical Review Letters</i> , 2019 , 123, 256402	7.4	68
146	Geometrical effects in orbital magnetic susceptibility. <i>Physical Review B</i> , 2015 , 91,	3.3	67
145	Spin-momentum locking and spin-orbit torques in magnetic nano-heterojunctions composed of Weyl semimetal WTe. <i>Nature Communications</i> , 2018 , 9, 3990	17.4	64
144	Two-dimensional honeycomb borophene oxide: strong anisotropy and nodal loop transformation. <i>Nanoscale</i> , 2019 , 11, 2468-2475	7.7	62
143	Valleytronics in merging Dirac cones: All-electric-controlled valley filter, valve, and universal reversible logic gate. <i>Physical Review B</i> , 2017 , 96,	3.3	62
142	Chirality-Dependent Hall Effect in Weyl Semimetals. <i>Physical Review Letters</i> , 2015 , 115, 156603	7.4	58
141	Electric control of topological phase transitions in Dirac semimetal thin films. <i>Scientific Reports</i> , 2015 , 5, 14639	4.9	58
140	Valley-dependent properties of monolayer MoSi ₂ N ₄ , WSi ₂ N ₄ , and MoSi ₂ As ₄ . <i>Physical Review B</i> , 2020 , 102,	3.3	55
139	Hybrid nodal loop metal: Unconventional magnetoresponse and material realization. <i>Physical Review B</i> , 2018 , 97,	3.3	54
138	Two-dimensional Weyl half-semimetal and tunable quantum anomalous Hall effect. <i>Physical Review B</i> , 2019 , 100,	3.3	54
137	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
136	Quadratic and cubic nodal lines stabilized by crystalline symmetry. <i>Physical Review B</i> , 2019 , 99,	3.3	52
135	Tunable ferroelectricity and anisotropic electric transport in monolayer EGeSe. <i>Physical Review B</i> , 2018 , 97,	3.3	49
134	d Orbital Topological Insulator and Semimetal in the Antifluorite CuS Family: Contrasting Spin Helicities, Nodal Box, and Hybrid Surface States. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3506-3511	6.4	48

133	Ternary wurtzite CaAgBi materials family: A playground for essential and accidental, type-I and type-II Dirac fermions. <i>Physical Review Materials</i> , 2017 , 1,	3.2	47
132	Two-dimensional spin-orbit Dirac point in monolayer HfGeTe. <i>Physical Review Materials</i> , 2017 , 1,	3.2	45
131	Spin-polarized and valley helical edge modes in graphene nanoribbons. <i>Physical Review B</i> , 2011 , 84,	3.3	43
130	Weyl-loop half-metal in Li ₃ (FeO ₃) ₂ . <i>Physical Review B</i> , 2019 , 99,	3.3	43
129	Heterostructured TiO Spheres with Tunable Interiors and Shells toward Improved Packing Density and Pseudocapacitive Sodium Storage. <i>Advanced Materials</i> , 2019 , 31, e1904589	24	42
128	Perfect valley filter in a topological domain wall. <i>Physical Review B</i> , 2015 , 92,	3.3	42
127	Anisotropic quantum confinement effect and electric control of surface states in Dirac semimetal nanostructures. <i>Scientific Reports</i> , 2015 , 5, 7898	4.9	40
126	Au-Decorated Cracked Carbon Tube Arrays as Binder-Free Catalytic Cathode Enabling Guided Li ₂ O ₂ Inner Growth for High-Performance Li-O ₂ Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 7725-7732 ^{15.6}		40
125	Tunable hyperbolic dispersion and negative refraction in natural electride materials. <i>Physical Review B</i> , 2017 , 95,	3.3	40
124	Thermal conductivity of biaxial-strained MoS ₂ : sensitive strain dependence and size dependent reduction rate. <i>Nanotechnology</i> , 2015 , 26, 465707	3.4	40
123	Scattering universality classes of side jump in the anomalous Hall effect. <i>Physical Review B</i> , 2011 , 83,	3.3	39
122	Two-dimensional nodal-loop half-metal in monolayer MnN. <i>Physical Review Materials</i> , 2019 , 3,	3.2	39
121	Multiple unpinned Dirac points in group-Va single-layers with phosphorene structure. <i>Npj Computational Materials</i> , 2016 , 2,	10.9	38
120	Germagraphene as a promising anode material for lithium-ion batteries predicted from first-principles calculations. <i>Nanoscale Horizons</i> , 2019 , 4, 457-463	10.8	36
119	Topological electromotive force from domain-wall dynamics in a ferromagnet. <i>Physical Review B</i> , 2010 , 82,	3.3	34
118	Tunable half-metallic magnetism in an atom-thin holey two-dimensional C ₂ N monolayer. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8424-8430	7.1	33
117	Quadratic contact point semimetal: Theory and material realization. <i>Physical Review B</i> , 2018 , 98,	3.3	33
116	Valley-Layer Coupling: A New Design Principle for Valleytronics. <i>Physical Review Letters</i> , 2020 , 124, 037701	7.1	31

115	Intrinsic relative magnetoconductivity of nonmagnetic metals. <i>Physical Review B</i> , 2017 , 95,	3.3	29
114	Valley-polarized quantum anomalous Hall phase and disorder-induced valley-filtered chiral edge channels. <i>Physical Review B</i> , 2015 , 91,	3.3	29
113	Three-dimensional honeycomb carbon: Junction line distortion and novel emergent fermions. <i>Carbon</i> , 2019 , 141, 417-426	10.4	29
112	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
111	Multiple Dirac Points and Hydrogenation-Induced Magnetism of Germanene Layer on Al (111) Surface. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4936-42	6.4	27
110	How is Honeycomb Borophene Stabilized on Al(111)? <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14858-14864	3.8	26
109	Efficient Ohmic contacts and built-in atomic sublayer protection in MoSi ₂ N ₄ and WSi ₂ N ₄ monolayers. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	25
108	Nonsymmorphic cubic Dirac point and crossed nodal rings across the ferroelectric phase transition in LiOsO ₃ . <i>Physical Review Materials</i> , 2018 , 2,	3.2	24
107	Hourglass Weyl loops in two dimensions: Theory and material realization in monolayer GaTeI family. <i>Physical Review Materials</i> , 2019 , 3,	3.2	24
106	Circumventing the no-go theorem: A single Weyl point without surface Fermi arcs. <i>Physical Review B</i> , 2019 , 100,	3.3	23
105	Pressure-Stabilized Semiconducting Electrides in Alkaline-Earth-Metal Subnitrides. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13798-13803	16.4	23
104	Interfacial Multiferroics of TiO/PbTiO Heterostructure Driven by Ferroelectric Polarization Discontinuity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1899-1906	9.5	22
103	Higher-order Dirac fermions in three dimensions. <i>Physical Review B</i> , 2020 , 101,	3.3	22
102	Quantized Circulation of Anomalous Shift in Interface Reflection. <i>Physical Review Letters</i> , 2020 , 125, 076801	7.4	21
101	Enhancing and controlling valley magnetic response in MoS/WS heterostructures by all-optical route. <i>Nature Communications</i> , 2019 , 10, 4226	17.4	20
100	Ferroelectric control of single-molecule magnetism in 2D limit. <i>Science Bulletin</i> , 2020 , 65, 1252-1259	10.6	20
99	Vacuum level dependent photoluminescence in chemical vapor deposition-grown monolayer MoS. <i>Scientific Reports</i> , 2017 , 7, 16714	4.9	20
98	Monolayer Mg ₂ C: Negative Poisson's ratio and unconventional two-dimensional emergent fermions. <i>Physical Review Materials</i> , 2018 , 2,	3.2	20

97	Almost ideal nodal-loop semimetal in monoclinic CuTeO ₃ material. <i>Physical Review B</i> , 2018 , 97,	3.3	20
96	Topological Properties of Atomic Lead Film with Honeycomb Structure. <i>Scientific Reports</i> , 2016 , 6, 217234.9	4.9	19
95	Nitrogen-doped graphene oxide for effectively removing boron ions from seawater. <i>Nanoscale</i> , 2017 , 9, 326-333	7.7	19
94	Universal Approach to Magnetic Second-Order Topological Insulator. <i>Physical Review Letters</i> , 2020 , 125, 056402	7.4	19
93	Realization of Symmetry-Enforced Two-Dimensional Dirac Fermions in Nonsymmorphic Bi ₂ Se ₃ . <i>ACS Nano</i> , 2020 , 14, 1888-1894	16.7	18
92	Anderson Localization from the Berry-Curvature Interchange in Quantum Anomalous Hall Systems. <i>Physical Review Letters</i> , 2016 , 117, 056802	7.4	18
91	Observation of a topological nodal surface and its surface-state arcs in an artificial acoustic crystal. <i>Nature Communications</i> , 2019 , 10, 5185	17.4	18
90	Second harmonic generation from tetragonal centrosymmetric crystals. <i>Physical Review B</i> , 2009 , 80,	3.3	18
89	Tunable Topological Energy Bands in 2D Alkali-Metal Monoxides. <i>Advanced Science</i> , 2020 , 7, 1901939	13.6	18
88	Electrically tunable valley polarization in Weyl semimetals with tilted energy dispersion. <i>Scientific Reports</i> , 2019 , 9, 4480	4.9	17
87	A two-dimensional h-BN/CN heterostructure as a promising metal-free photocatalyst for overall water-splitting. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 24446-24454	3.6	17
86	Electronic correlations in the normal state of the kagome superconductor KV ₃ Sb ₅ . <i>Physical Review B</i> , 2021 , 103,	3.3	17
85	Tailoring lanthanide doping in perovskite CaTiO ₃ for luminescence applications. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 16189-16197	3.6	16
84	Transverse shift in Andreev reflection. <i>Physical Review B</i> , 2017 , 96,	3.3	16
83	Theory of orbital magnetization in disordered systems. <i>Physical Review B</i> , 2012 , 86,	3.3	16
82	Boundary Criticality of PT-Invariant Topology and Second-Order Nodal-Line Semimetals. <i>Physical Review Letters</i> , 2020 , 125, 126403	7.4	16
81	Unusual Electronic Transitions in Two-dimensional Layered SnSb ₂ Te ₄ Driven by Electronic State Rehybridization. <i>Physical Review Applied</i> , 2019 , 11,	4.3	14
80	Circular dichroism and radial Hall effects in topological materials. <i>Physical Review B</i> , 2018 , 97,	3.3	14

79	Topological metallic phases in spin-orbit coupled bilayer systems. <i>New Journal of Physics</i> , 2014 , 16, 1230159	15.9	14
78	Gate-tunable current partition in graphene-based topological zero lines. <i>Physical Review B</i> , 2017 , 95,	3.3	13
77	Hexagonal supertetrahedral boron: A topological metal with multiple spin-orbit-free emergent fermions. <i>Physical Review Materials</i> , 2019 , 3,	3.2	13
76	Ideal Unconventional Weyl Point in a Chiral Photonic Metamaterial. <i>Physical Review Letters</i> , 2020 , 125, 143001	7.4	13
75	Combination of heterostructure with oxygen vacancies in Co@CoO _{1-x} nanosheets array for high-performance lithium sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 411, 128546	14.7	13
74	Electrical Contact between an Ultrathin Topological Dirac Semimetal and a Two-Dimensional Material. <i>Physical Review Applied</i> , 2020 , 13,	4.3	11
73	2D honeycomb borophene oxide: a promising anode material offering super high capacity for Li/Na-ion batteries. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 065001	1.8	11
72	Hybrid Structures and Strain-Tunable Electronic Properties of Carbon Nanothreads. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3101-3106	3.8	11
71	Room temperature ferromagnetism and antiferromagnetism in two-dimensional iron arsenides. <i>Nanoscale</i> , 2019 , 11, 16508-16514	7.7	11
70	Magnetic higher-order nodal lines. <i>Physical Review B</i> , 2021 , 103,	3.3	11
69	Chiral phonons in kagome lattices. <i>Physical Review B</i> , 2019 , 100,	3.3	10
68	Progress on topological nodal line and nodal surface. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019 , 68, 227101	0.6	10
67	Propagating Chiral Phonons in Three-Dimensional Materials. <i>Nano Letters</i> , 2021 , 21, 3060-3065	11.5	10
66	Colossal Anomalous Hall Effect in Ferromagnetic van der Waals CrTe. <i>ACS Nano</i> , 2021 , 15, 9759-9763	16.7	10
65	Progress in Epitaxial Thin-Film Na Bi as a Topological Electronic Material. <i>Advanced Materials</i> , 2021 , 33, e2005897	24	10
64	Encyclopedia of emergent particles in three-dimensional crystals. <i>Science Bulletin</i> , 2021 , 67, 375-375	10.6	9
63	Directional massless Dirac fermions in a layered van der Waals material with one-dimensional long-range order. <i>Nature Materials</i> , 2020 , 19, 27-33	27	9
62	Nonvolatile ferroelectric control of topological states in two-dimensional heterostructures. <i>Physical Review B</i> , 2020 , 102,	3.3	9

61	Half-Auxeticity and Anisotropic Transport in Pd Decorated Two-Dimensional Boron Sheets. <i>Nano Letters</i> , 2021 , 21, 2356-2362	11.5	9
60	Unlocking Rapid and Robust Sodium Storage Performance of Zinc-Based Sulfide Indium Incorporation. <i>ACS Nano</i> , 2021 , 15, 8507-8516	16.7	9
59	Two-dimensional antiferromagnetic Dirac fermions in monolayer TaCoTe ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	8
58	Anomalous tunneling characteristic of Weyl semimetals with tilted energy dispersion. <i>Applied Physics Letters</i> , 2017 , 111, 063101	3.4	8
57	Atomically Thin Quantum Spin Hall Insulators. <i>Advanced Materials</i> , 2021 , 33, e2008029	24	8
56	Tunable anomalous Hall transport in bulk and two-dimensional 1T'CrTe ₂ : A first-principles study. <i>Physical Review B</i> , 2021 , 103,	3.3	8
55	Effects of spin-flip scattering on gapped Dirac fermions. <i>Europhysics Letters</i> , 2011 , 95, 67001	1.6	7
54	Strong Coupled Magnetic and Electric Ordering in Monolayer of Metal Thio(seleno)phosphates. <i>Chinese Physics Letters</i> , 2021 , 38, 077501	1.8	7
53	Correlation-driven topological and valley states in monolayer VSi ₂ P ₄ . <i>Physical Review B</i> , 2021 , 104,	3.3	7
52	Projectively Enriched Symmetry and Topology in Acoustic Crystals.. <i>Physical Review Letters</i> , 2022 , 128, 116802	7.4	7
51	Anomalous spatial shifts in interface electronic scattering. <i>Frontiers of Physics</i> , 2019 , 14, 1	3.7	6
50	Composite Dirac semimetals. <i>Physical Review B</i> , 2019 , 100,	3.3	6
49	Fermi liquid behavior and colossal magnetoresistance in layered MoOCl ₂ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	6
48	Extending Channel Scaling Limit of p-MOSFETs Through Antimonene With Heavy Effective Mass and High Density of State. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-6	2.9	6
47	Z ₂ -projective translational symmetry protected topological phases. <i>Physical Review B</i> , 2020 , 102,	3.3	6
46	Switching Spinless and Spinful Topological Phases with Projective PT Symmetry. <i>Physical Review Letters</i> , 2021 , 126, 196402	7.4	6
45	All-electric spin modulator based on a two-dimensional topological insulator. <i>Applied Physics Letters</i> , 2016 , 108, 032403	3.4	6
44	Index Theorem on Chiral Landau Bands for Topological Fermions. <i>Physical Review Letters</i> , 2021 , 126, 046401	7.4	6

43	Tuning to the band gap by complex defects engineering: insights from hybrid functional calculations in CuInS ₂ . <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 025105	3	6
42	Unconventional Pairing Induced Anomalous Transverse Shift in Andreev Reflection. <i>Physical Review Letters</i> , 2018 , 121, 176602	7.4	6
41	Electron-donor doping enhanced Li storage in electride CaN monolayer: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 345501	1.8	5
40	Highly anisotropic two-dimensional metal in monolayer MoOCl ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	5
39	Spontaneous symmetry lowering of Si (001) towards two-dimensional ferro/antiferroelectric behavior. <i>Physical Review Materials</i> , 2019 , 3,	3.2	5
38	Plasmon of Au nanorods activates metal-organic frameworks for both the hydrogen evolution reaction and oxygen evolution reaction. <i>Nanoscale</i> , 2020 , 12, 17290-17297	7.7	5
37	Coexistence of Ferroelectricity and Ferromagnetism in One-Dimensional SbN and BiN Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13517-13523	9.5	5
36	Significant perpendicular magnetic anisotropy in room-temperature layered ferromagnet of Cr-intercalated CrTe ₂ . <i>2D Materials</i> , 2021 , 8, 031003	5.9	5
35	Transverse shift in crossed Andreev reflection. <i>Physical Review B</i> , 2018 , 98,	3.3	5
34	Buckled honeycomb lattice materials and unconventional magnetic responses. <i>RSC Advances</i> , 2015 , 5, 83350-83360	3.7	4
33	Type-II topological metals. <i>Frontiers of Physics</i> , 2020 , 15, 1	3.7	4
32	Inherited weak topological insulator signatures in the topological hourglass semimetal Nb ₃ XTe ₆ (X=Si, Ge). <i>Physical Review B</i> , 2021 , 103,	3.3	4
31	Third-order nonlinear Hall effect induced by the Berry-connection polarizability tensor. <i>Nature Nanotechnology</i> , 2021 , 16, 869-873	28.7	4
30	Theoretical design of all-carbon networks with intrinsic magnetism. <i>Carbon</i> , 2021 , 177, 11-18	10.4	4
29	Gauge-Field Extended k _F Method and Novel Topological Phases. <i>Physical Review Letters</i> , 2021 , 127, 076401	7.4	4
28	Graphyne as a second-order and real Chern topological insulator in two dimensions. <i>Physical Review B</i> , 2021 , 104,	3.3	4
27	Thermoelectric generation of orbital magnetization in metals. <i>Physical Review B</i> , 2021 , 103,	3.3	4
26	A tunable and unidirectional one-dimensional electronic system Nb _{2n+1} Si _n Te _{4n+2} . <i>Npj Quantum Materials</i> , 2020 , 5,	5	3

25	Goos-Hänchen-like shifts at a metal/superconductor interface. <i>Physical Review B</i> , 2018 , 98,	3.3	3
24	Temperature dependence of the side-jump spin Hall conductivity. <i>Physical Review B</i> , 2019 , 100,	3.3	3
23	Pumped charge and spin current in a quantum dot molecule. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 275302	1.8	3
22	Intrinsic Second-Order Anomalous Hall Effect and Its Application in Compensated Antiferromagnets.. <i>Physical Review Letters</i> , 2021 , 127, 277202	7.4	3
21	Nonsymmorphic nodal-line metals in the two-dimensional rare earth monochalcogenides MX (M = Sc, Y; X = S, Se, Te). <i>Journal of Materials Science</i> , 2020 , 55, 14883-14892	4.3	3
20	One-Dimensional Metal Embedded in Two-Dimensional Semiconductor in NbSiTe. <i>ACS Nano</i> , 2021 , 15, 7149-7154	16.7	3
19	Super-Andreev reflection and longitudinal shift of pseudospin-1 fermions. <i>Physical Review B</i> , 2020 , 101,	3.3	2
18	Theory of the phonon side-jump contribution in anomalous Hall effect. <i>Physical Review B</i> , 2019 , 99,	3.3	2
17	Layer-dependent semiconductor-metal transition of SnO/Si(001) heterostructure and device application. <i>Scientific Reports</i> , 2017 , 7, 2570	4.9	2
16	Chiral Phonon Diode Effect in Chiral Crystals.. <i>Nano Letters</i> , 2022 ,	11.5	2
15	Systematic investigation of emergent particles in type-III magnetic space groups. <i>Physical Review B</i> , 2022 , 105,	3.3	2
14	Electric field modulated ion-sieving effects of graphene oxide membranes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 244-253	13	2
13	A membrane-less desalination battery with ultrahigh energy efficiency. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7216-7226	13	2
12	Ternary FePSe ₃ Atomic Layers with Competitive Temperature Coefficient of Resistance for Uncooled Infrared Bolometers. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100491	4.6	2
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5	Topological bosonic states on ribbons of a honeycomb lattice. <i>Physical Review A</i> , 2018 , 98,	2.6	1
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2	Brillouin Klein bottle from artificial gauge fields.. <i>Nature Communications</i> , 2022 , 13, 2215	17.4	0
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