

# Shengyuan A Yang

## 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.

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	Second-Order Real Nodal-Line Semimetal in Three-Dimensional Graphdiyne.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 026405	7.4	0
185	Chiral Phonon Diode Effect in Chiral Crystals.. <i>Nano Letters</i> , <b>2022</b> ,	11.5	2
184	Systematic investigation of emergent particles in type-III magnetic space groups. <i>Physical Review B</i> , <b>2022</b> , 105,	3.3	2
183	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> , <b>2022</b> , 1-6	2.9	6
182	Chiral phonons in lattices with C4 symmetry. <i>Physical Review B</i> , <b>2022</b> , 105,	3.3	1
181	Projectively Enriched Symmetry and Topology in Acoustic Crystals.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 116802	7.4	7
180	Brillouin Klein bottle from artificial gauge fields.. <i>Nature Communications</i> , <b>2022</b> , 13, 2215	17.4	0
179	Intrinsic Second-Order Anomalous Hall Effect and Its Application in Compensated Antiferromagnets.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 277202	7.4	3
178	Encyclopedia of emergent particles in three-dimensional crystals. <i>Science Bulletin</i> , <b>2021</b> , 67, 375-375	10.6	9
177	Observation of symmetry-protected Dirac states in nonsymmorphic Antimonene. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
176	Coexistence of Ferroelectricity and Ferromagnetism in One-Dimensional SbN and BiN Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 13517-13523	9.5	5
175	One-Dimensional Metal Embedded in Two-Dimensional Semiconductor in NbSiTe. <i>ACS Nano</i> , <b>2021</b> , 15, 7149-7154	16.7	3
174	Magnetic higher-order nodal lines. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	11
173	Half-Auxeticity and Anisotropic Transport in Pd Decorated Two-Dimensional Boron Sheets. <i>Nano Letters</i> , <b>2021</b> , 21, 2356-2362	11.5	9
172	Propagating Chiral Phonons in Three-Dimensional Materials. <i>Nano Letters</i> , <b>2021</b> , 21, 3060-3065	11.5	10
171	Two-dimensional MnN utilized as high-capacity anode for Li-ion batteries*. <i>Chinese Physics B</i> , <b>2021</b> , 30, 046302	1.2	1
170	Colossal Anomalous Hall Effect in Ferromagnetic van der Waals CrTe. <i>ACS Nano</i> , <b>2021</b> , 15, 9759-9763	16.7	10

169	Inherited weak topological insulator signatures in the topological hourglass semimetal Nb <sub>3</sub> XTe <sub>6</sub> (X=Si, Ge). <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	4
168	Atomically Thin Quantum Spin Hall Insulators. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008029	24	8
167	Unlocking Rapid and Robust Sodium Storage Performance of Zinc-Based Sulfide Indium Incorporation. <i>ACS Nano</i> , <b>2021</b> , 15, 8507-8516	16.7	9
166	Significant perpendicular magnetic anisotropy in room-temperature layered ferromagnet of Cr-intercalated CrTe <sub>2</sub> . <i>2D Materials</i> , <b>2021</b> , 8, 031003	5.9	5
165	Combination of heterostructure with oxygen vacancies in Co@CoO <sub>1-x</sub> nanosheets array for high-performance lithium sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128546	14.7	13
164	Switching Spinless and Spinful Topological Phases with Projective PT Symmetry. <i>Physical Review Letters</i> , <b>2021</b> , 126, 196402	7.4	6
163	Third-order nonlinear Hall effect induced by the Berry-connection polarizability tensor. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 869-873	28.7	4
162	Electronic correlations in the normal state of the kagome superconductor KV <sub>3</sub> Sb <sub>5</sub> . <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	17
161	Theoretical design of all-carbon networks with intrinsic magnetism. <i>Carbon</i> , <b>2021</b> , 177, 11-18	10.4	4
160	Three-dimensional acetylenic modified graphene for high-performance optoelectronics and topological materials. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	1
159	Strong Coupled Magnetic and Electric Ordering in Monolayer of Metal Thio(seleno)phosphates. <i>Chinese Physics Letters</i> , <b>2021</b> , 38, 077501	1.8	7
158	Electric field modulated ion-sieving effects of graphene oxide membranes. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 244-253	13	2
157	Tunable anomalous Hall transport in bulk and two-dimensional 1T'CrTe <sub>2</sub> : A first-principles study. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	8
156	A membrane-less desalination battery with ultrahigh energy efficiency. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 7216-7226	13	2
155	Index Theorem on Chiral Landau Bands for Topological Fermions. <i>Physical Review Letters</i> , <b>2021</b> , 126, 046401	7.4	6
154	Progress in Epitaxial Thin-Film Na Bi as a Topological Electronic Material. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005897	24	10
153	Efficient Ohmic contacts and built-in atomic sublayer protection in MoSi <sub>2</sub> N <sub>4</sub> and WSi <sub>2</sub> N <sub>4</sub> monolayers. <i>Npj 2D Materials and Applications</i> , <b>2021</b> , 5,	8.8	25
152	Gauge-Field Extended k $\cdot$ p Method and Novel Topological Phases. <i>Physical Review Letters</i> , <b>2021</b> , 127, 076401	7.4	4

151	Correlation-driven topological and valley states in monolayer VSi <sub>2</sub> P <sub>4</sub> . <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	7
150	Ternary FePSe <sub>3</sub> Atomic Layers with Competitive Temperature Coefficient of Resistance for Uncooled Infrared Bolometers. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100491	4.6	2
149	Graphyne as a second-order and real Chern topological insulator in two dimensions. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	4
148	Thermoelectric generation of orbital magnetization in metals. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	4
147	Higher-order Dirac fermions in three dimensions. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	22
146	Electrical Contact between an Ultrathin Topological Dirac Semimetal and a Two-Dimensional Material. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	11
145	A tunable and unidirectional one-dimensional electronic system Nb <sub>2n+1</sub> Si <sub>n</sub> Te <sub>4n+2</sub> . <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	3
144	Super-Andreev reflection and longitudinal shift of pseudospin-1 fermions. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
143	2D honeycomb borophene oxide: a promising anode material offering super high capacity for Li/Na-ion batteries. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 065001	1.8	11
142	Valley-Layer Coupling: A New Design Principle for Valleytronics. <i>Physical Review Letters</i> , <b>2020</b> , 124, 037701	9.1	31
141	Realization of Symmetry-Enforced Two-Dimensional Dirac Fermions in Nonsymmorphic Bismuthene. <i>ACS Nano</i> , <b>2020</b> , 14, 1888-1894	16.7	18
140	Ferroelectric control of single-molecule magnetism in 2D limit. <i>Science Bulletin</i> , <b>2020</b> , 65, 1252-1259	10.6	20
139	Type-II topological metals. <i>Frontiers of Physics</i> , <b>2020</b> , 15, 1	3.7	4
138	Valley-dependent properties of monolayer MoSi <sub>2</sub> N <sub>4</sub> , WSi <sub>2</sub> N <sub>4</sub> , and MoSi <sub>2</sub> As <sub>4</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	55
137	Highly anisotropic two-dimensional metal in monolayer MoOCl <sub>2</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
136	Fermi liquid behavior and colossal magnetoresistance in layered MoOCl <sub>2</sub> . <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	6
135	Plasmon of Au nanorods activates metal-organic frameworks for both the hydrogen evolution reaction and oxygen evolution reaction. <i>Nanoscale</i> , <b>2020</b> , 12, 17290-17297	7.7	5
134	Tunable Topological Energy Bands in 2D Dialkali-Metal Monoxides. <i>Advanced Science</i> , <b>2020</b> , 7, 1901939	13.6	18

133	Advances of 2D bismuth in energy sciences. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 263-285	58.5	78
132	Directional massless Dirac fermions in a layered van der Waals material with one-dimensional long-range order. <i>Nature Materials</i> , <b>2020</b> , 19, 27-33	27	9
131	Ideal Unconventional Weyl Point in a Chiral Photonic Metamaterial. <i>Physical Review Letters</i> , <b>2020</b> , 125, 143001	7.4	13
130	A two-dimensional h-BN/CN heterostructure as a promising metal-free photocatalyst for overall water-splitting. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 24446-24454	3.6	17
129	Importance of interactions for the band structure of the topological Dirac semimetal Na <sub>3</sub> Bi. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1
128	Quantized Circulation of Anomalous Shift in Interface Reflection. <i>Physical Review Letters</i> , <b>2020</b> , 125, 076801	7.4	21
127	First-principles study of bulk and two-dimensional structures of the AMnBi family of materials (A=K,Rb,Cs). <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1
126	Universal Approach to Magnetic Second-Order Topological Insulator. <i>Physical Review Letters</i> , <b>2020</b> , 125, 056402	7.4	19
125	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> , <b>2020</b> , 55, 14883-14892	4.3	3
124	Z <sub>2</sub> -projective translational symmetry protected topological phases. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	6
123	Boundary Criticality of PT-Invariant Topology and Second-Order Nodal-Line Semimetals. <i>Physical Review Letters</i> , <b>2020</b> , 125, 126403	7.4	16
122	Nonvolatile ferroelectric control of topological states in two-dimensional heterostructures. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	9
121	Heterostructured TiO Spheres with Tunable Interiors and Shells toward Improved Packing Density and Pseudocapacitive Sodium Storage. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904589	24	42
120	Chiral phonons in kagome lattices. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	10
119	Enhancing and controlling valley magnetic response in MoS <sub>2</sub> /WS <sub>2</sub> heterostructures by all-optical route. <i>Nature Communications</i> , <b>2019</b> , 10, 4226	17.4	20
118	Two-dimensional honeycomb borophene oxide: strong anisotropy and nodal loop transformation. <i>Nanoscale</i> , <b>2019</b> , 11, 2468-2475	7.7	62
117	Germagrapene as a promising anode material for lithium-ion batteries predicted from first-principles calculations. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 457-463	10.8	36
116	Unusual Electronic Transitions in Two-dimensional Layered SnSb <sub>2</sub> Te <sub>4</sub> Driven by Electronic State Rehybridization. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	14

115	How is Honeycomb Borophene Stabilized on Al(111)? <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 14858-14864	4.8	26
114	Three-dimensional quantum Hall effect and metal-insulator transition in ZrTe. <i>Nature</i> , <b>2019</b> , 569, 537-541	10.4	110
113	Electrically tunable valley polarization in Weyl semimetals with tilted energy dispersion. <i>Scientific Reports</i> , <b>2019</b> , 9, 4480	4.9	17
112	Quadratic and cubic nodal lines stabilized by crystalline symmetry. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	52
111	Anomalous spatial shifts in interface electronic scattering. <i>Frontiers of Physics</i> , <b>2019</b> , 14, 1	3.7	6
110	Two-dimensional Weyl half-semimetal and tunable quantum anomalous Hall effect. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	54
109	Temperature dependence of the side-jump spin Hall conductivity. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	3
108	Circumventing the no-go theorem: A single Weyl point without surface Fermi arcs. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	23
107	Room temperature ferromagnetism and antiferromagnetism in two-dimensional iron arsenides. <i>Nanoscale</i> , <b>2019</b> , 11, 16508-16514	7.7	11
106	Theory of the phonon side-jump contribution in anomalous Hall effect. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	2
105	Composite Dirac semimetals. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	6
104	Two-dimensional antiferromagnetic Dirac fermions in monolayer TaCoTe <sub>2</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	8
103	Observation of a topological nodal surface and its surface-state arcs in an artificial acoustic crystal. <i>Nature Communications</i> , <b>2019</b> , 10, 5185	17.4	18
102	Hexagonal supertetrahedral boron: A topological metal with multiple spin-orbit-free emergent fermions. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	13
101	Spontaneous symmetry lowering of Si (001) towards two-dimensional ferro/antiferroelectric behavior. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	5
100	Hourglass Weyl loops in two dimensions: Theory and material realization in monolayer GaTeI family. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	24
99	Two-dimensional nodal-loop half-metal in monolayer MnN. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	39
98	Progress on topological nodal line and nodal surface. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2019</b> , 68, 227101	0.6	10

97	Weyl-loop half-metal in $\text{Li}_3(\text{FeO}_3)_2$ . <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	43
96	Two-Dimensional Second-Order Topological Insulator in Graphdiyne. <i>Physical Review Letters</i> , <b>2019</b> , 123, 256402	7.4	68
95	Three-dimensional honeycomb carbon: Junction line distortion and novel emergent fermions. <i>Carbon</i> , <b>2019</b> , 141, 417-426	10.4	29
94	Elemental Ferroelectricity and Antiferroelectricity in Group-V Monolayer. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707383	15.6	86
93	Tunable ferroelectricity and anisotropic electric transport in monolayer $\text{EGeSe}$ . <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	49
92	Nonsymmorphic-symmetry-protected hourglass Dirac loop, nodal line, and Dirac point in bulk and monolayer $\text{X}_3\text{SiTe}_6$ ( $\text{X} = \text{Ta}, \text{Nb}$ ). <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	71
91	Circular dichroism and radial Hall effects in topological materials. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	14
90	Hybrid Structures and Strain-Tunable Electronic Properties of Carbon Nanothreads. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 3101-3106	3.8	11
89	Hybrid nodal loop metal: Unconventional magnetoresponse and material realization. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	54
88	Two-dimensional ferroelectricity and switchable spin-textures in ultra-thin elemental Te multilayers. <i>Materials Horizons</i> , <b>2018</b> , 5, 521-528	14.4	68
87	Nodal surface semimetals: Theory and material realization. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	137
86	Regulating the polysulfide redox conversion by iron phosphide nanocrystals for high-rate and ultrastable lithium-sulfur battery. <i>Nano Energy</i> , <b>2018</b> , 51, 340-348	17.1	202
85	Electron-donor doping enhanced Li storage in electride $\text{CaN}$ monolayer: a first-principles study. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 345501	1.8	5
84	Goos-Hänchen-like shifts at a metal/superconductor interface. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	3
83	Nonsymmorphic cubic Dirac point and crossed nodal rings across the ferroelectric phase transition in $\text{LiOsO}_3$ . <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	24
82	Monolayer $\text{Mg}_2\text{C}$ : Negative Poisson's ratio and unconventional two-dimensional emergent fermions. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	20
81	Tuning to the band gap by complex defects engineering: insights from hybrid functional calculations in $\text{CuInS}_2$ . <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 025105	3	6
80	Transverse shift in crossed Andreev reflection. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	5

79	Electric-field-tuned topological phase transition in ultrathin NaBi. <i>Nature</i> , <b>2018</b> , 564, 390-394	50.4	85
78	Spin-momentum locking and spin-orbit torques in magnetic nano-heterojunctions composed of Weyl semimetal WTe. <i>Nature Communications</i> , <b>2018</b> , 9, 3990	17.4	64
77	Unconventional Pairing Induced Anomalous Transverse Shift in Andreev Reflection. <i>Physical Review Letters</i> , <b>2018</b> , 121, 176602	7.4	6
76	Topological bosonic states on ribbons of a honeycomb lattice. <i>Physical Review A</i> , <b>2018</b> , 98,	2.6	1
75	Quadratic contact point semimetal: Theory and material realization. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	33
74	Nodal loop and nodal surface states in the Ti3Al family of materials. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	71
73	Almost ideal nodal-loop semimetal in monoclinic CuTeO3 material. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	20
72	Artificial gravity field, astrophysical analogues, and topological phase transitions in strained topological semimetals. <i>Npj Quantum Materials</i> , <b>2017</b> , 2,	5	80
71	Antimonene Oxides: Emerging Tunable Direct Bandgap Semiconductor and Novel Topological Insulator. <i>Nano Letters</i> , <b>2017</b> , 17, 3434-3440	11.5	217
70	Three-dimensional Pentagon Carbon with a genesis of emergent fermions. <i>Nature Communications</i> , <b>2017</b> , 8, 15641	17.4	81
69	Tailoring lanthanide doping in perovskite CaTiO for luminescence applications. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 16189-16197	3.6	16
68	Interfacial Multiferroics of TiO/PbTiO Heterostructure Driven by Ferroelectric Polarization Discontinuity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1899-1906	9.5	22
67	Pressure-Stabilized Semiconducting Electrides in Alkaline-Earth-Metal Subnitrides. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13798-13803	16.4	23
66	Transverse shift in Andreev reflection. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	16
65	Gate-tunable current partition in graphene-based topological zero lines. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	13
64	Tunable half-metallic magnetism in an atom-thin holey two-dimensional C2N monolayer. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 8424-8430	7.1	33
63	Nexus fermions in topological symmorphic crystalline metals. <i>Scientific Reports</i> , <b>2017</b> , 7, 1688	4.9	97
62	Type-II nodal loops: Theory and material realization. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	110



61	Anomalous tunneling characteristic of Weyl semimetals with tilted energy dispersion. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 063101	3.4	8
60	Hourglass Dirac chain metal in rhenium dioxide. <i>Nature Communications</i> , <b>2017</b> , 8, 1844	17.4	79
59	Valleytronics in merging Dirac cones: All-electric-controlled valley filter, valve, and universal reversible logic gate. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	62
58	Vacuum level dependent photoluminescence in chemical vapor deposition-grown monolayer MoS <sub>2</sub> . <i>Scientific Reports</i> , <b>2017</b> , 7, 16714	4.9	20
57	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> , <b>2017</b> , 8, 3506-3511	6.4	48
56	Intrinsic relative magnetoconductivity of nonmagnetic metals. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	29
55	Type-II Symmetry-Protected Topological Dirac Semimetals. <i>Physical Review Letters</i> , <b>2017</b> , 119, 026404	7.4	112
54	Tunable hyperbolic dispersion and negative refraction in natural electride materials. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	40
53	Coexistence of four-band nodal rings and triply degenerate nodal points in centrosymmetric metal diborides. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	101
52	Layer-dependent semiconductor-metal transition of SnO/Si(001) heterostructure and device application. <i>Scientific Reports</i> , <b>2017</b> , 7, 2570	4.9	2
51	Nitrogen-doped graphene oxide for effectively removing boron ions from seawater. <i>Nanoscale</i> , <b>2017</b> , 9, 326-333	7.7	19
50	Evidence for topological type-II Weyl semimetal WTe <sub>2</sub> . <i>Nature Communications</i> , <b>2017</b> , 8, 2150	17.4	160
49	Ternary wurtzite CaAgBi materials family: A playground for essential and accidental, type-I and type-II Dirac fermions. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	47
48	Two-dimensional spin-orbit Dirac point in monolayer HfGeTe. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	45
47	Theoretical prediction of MoN <sub>2</sub> monolayer as a high capacity electrode material for metal ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15224-15231	13	154
46	Topological Properties of Atomic Lead Film with Honeycomb Structure. <i>Scientific Reports</i> , <b>2016</b> , 6, 21723	4.9	19
45	Multiple unpinned Dirac points in group-Va single-layers with phosphorene structure. <i>Npj Computational Materials</i> , <b>2016</b> , 2,	10.9	38
44	Au-Decorated Cracked Carbon Tube Arrays as Binder-Free Catalytic Cathode Enabling Guided Li <sub>2</sub> O <sub>2</sub> Inner Growth for High-Performance Li-O <sub>2</sub> Batteries. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7725-7732	15.6	40

43	Blue Phosphorene Oxide: Strain-Tunable Quantum Phase Transitions and Novel 2D Emergent Fermions. <i>Nano Letters</i> , <b>2016</b> , 16, 6548-6554	11.5	91
42	Borophene as an extremely high capacity electrode material for Li-ion and Na-ion batteries. <i>Nanoscale</i> , <b>2016</b> , 8, 15340-7	7.7	272
41	Anderson Localization from the Berry-Curvature Interchange in Quantum Anomalous Hall Systems. <i>Physical Review Letters</i> , <b>2016</b> , 117, 056802	7.4	18
40	Strain-Induced Isostructural and Magnetic Phase Transitions in Monolayer MoN <sub>2</sub> . <i>Nano Letters</i> , <b>2016</b> , 16, 4576-82	11.5	94
39	Large Spin-Valley Polarization in Monolayer MoTe <sub>2</sub> on Top of EuO(111). <i>Advanced Materials</i> , <b>2016</b> , 28, 959-66	24	183
38	Towards three-dimensional Weyl-surface semimetals in graphene networks. <i>Nanoscale</i> , <b>2016</b> , 8, 7232-9	7.7	134
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31	Multivariable scaling for the anomalous Hall effect. <i>Physical Review Letters</i> , <b>2015</b> , 114, 217203	7.4	74
30	Anisotropic quantum confinement effect and electric control of surface states in Dirac semimetal nanostructures. <i>Scientific Reports</i> , <b>2015</b> , 5, 7898	4.9	40
29	Nanostructured Carbon Allotropes with Weyl-like Loops and Points. <i>Nano Letters</i> , <b>2015</b> , 15, 6974-8	11.5	248
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21	Effects of strain on electronic and optic properties of holey two-dimensional C <sub>2</sub> N crystals. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 231904	3.4	109
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