

# Sankar Raman

## 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.

137 papers	7,942 citations	33 h-index	88 g-index
149 ext. papers	9,585 ext. citations	7.8 avg, IF	5.64 L-index

#	Paper	IF	Citations
137	Segmented Highly Reversible Thermochromic Layered Perovskite $[(CH_2)_2(NH_3)_2]CuCl_4$ Crystal Coupled with an Inverse Magnetocaloric Effect. <i>ACS Applied Electronic Materials</i> , <b>2022</b> , 4, 521-530	4	1
136	Improved Oxygen Redox Activity by High-Valent Fe and $Co^{3+}$ Sites in the Perovskite $LaNi_{1-x}Fe_{0.5x}Co_{0.5x}O_3$ . <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 343-354	6.1	3
135	Energy Barrier at Indium/Indium Selenide Nanosheet Interfaces: Implications of Metal-to-Insulator Transition for Field-Effect Transistor Modeling. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 1911-1916	5.6	0
134	Direct investigation of the reorientational dynamics of A-site cations in 2D organic-inorganic hybrid perovskite by solid-state NMR. <i>Nature Communications</i> , <b>2022</b> , 13, 1513	17.4	0
133	Chemical tuning of magnetic anisotropy and correlations in $Ni_{1-x}Fe_xPS_3$ . <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	4
132	Achieving synergistic performance through highly compacted microcrystalline rods induced in Mo doped GeTe based compounds. <i>Materials Today Physics</i> , <b>2021</b> , 100571	8	0
131	The effect of Mg content and milling time on the solid solubility and microstructure of TiMg alloys processed by mechanical milling. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 11, 1424-1433	5.5	6
130	Revealing the Quasi-Periodic Crystallographic Structure of Self-Assembled $SnTiS_3$ Misfit Compound. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 9956-9964	3.8	1
129	A Bi-Anti-Ambipolar Field Effect Transistor. <i>ACS Nano</i> , <b>2021</b> , 15, 8686-8693	16.7	11
128	Switching of the electron-phonon interaction in $1T'\text{-Se}_2$ assisted by hot carriers. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	2
127	Two-Dimensional Layered $NiLiP_2S_6$ Crystals as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Catalysts</i> , <b>2021</b> , 11, 786	4	
126	Staggered band offset induced high performance opto-electronic devices: Atomically thin vertically stacked GaSe-SnS <sub>2</sub> van der Waals p-n heterostructures. <i>Applied Surface Science</i> , <b>2021</b> , 535, 147480	6.7	6
125	Engineering an Indium Selenide van der Waals Interface for Multilevel Charge Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 4618-4625	9.5	3
124	Internal and External Pressure Effects on Superconductivity in $FeTe_xSe_{1-x}$ ( $x = 0.46, 0.54$ ) Single Crystals. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2021</b> , 34, 725-731	1.5	0
123	Evidence for largest room temperature magnetic signal from $Co^{2+}$ in antiphase-free & fully inverted $CoFe_2O_4$ in multiferroic-ferrimagnetic $BiFeO_3$ - $CoFe_2O_4$ nanopillar thin films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 530, 167940	2.8	1
122	Pressure-Induced Excitations in the Out-of-Plane Optical Response of the Nodal-Line Semimetal $ZrSiS$ . <i>Physical Review Letters</i> , <b>2021</b> , 127, 076402	7.4	1
121	Magnetic properties of honeycomb spin lattice compounds $Na_2M_2TeO_6$ ( $M = Co, Ni$ ) and spin dimer compound $Na_2Cu_2TeO_6$ single crystals by flux-growth. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 14, 1601-1608	5.5	3

120	Silicon-based two-dimensional chalcogenide of p-type semiconducting silicon telluride nanosheets for ultrahigh sensitive photodetector applications. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 10478-10486	7.1	1
119	Tailoring the Co/Co active sites in a single perovskite as a bifunctional catalyst for the oxygen electrode reactions. <i>Dalton Transactions</i> , <b>2021</b> , 50, 7212-7222	4.3	6
118	Water-assisted spin-flop antiferromagnetic behaviour of hydrophobic Cu-based metal-organic frameworks. <i>Dalton Transactions</i> , <b>2021</b> , 50, 5754-5758	4.3	1
117	Magnetotransport in hybrid InSe/monolayer graphene on SiC. <i>Nanotechnology</i> , <b>2021</b> , 32, 155704	3.4	1
116	Assessing the stability of Cd <sub>3</sub> As <sub>2</sub> Dirac semimetal in humid environments: the influence of defects, steps and surface oxidation. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 1235-1244	7.1	2
115	Repurposing INCI-registered compounds as skin prebiotics for probiotic <i>Staphylococcus epidermidis</i> against UV-B. <i>Scientific Reports</i> , <b>2020</b> , 10, 21585	4.9	4
114	Synergistic optimization of thermoelectric performance in earth-abundant CuZnSnS by inclusion of graphene nanosheets. <i>Nanotechnology</i> , <b>2020</b> , 31, 365402	3.4	9
113	Modulating Charge Separation with Hexagonal Boron Nitride Mediation in Vertical Van der Waals Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 26213-26221	9.5	12
112	Evidence for nematic superconductivity of topological surface states in PbTaSe <sub>2</sub> . <i>Science Bulletin</i> , <b>2020</b> , 65, 1349-1355	10.6	8
111	Ultralow Schottky Barriers in Hexagonal Boron Nitride-Encapsulated Monolayer WSe Tunnel Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18667-18673	9.5	10
110	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	15
109	Nickel-Based Hybrid Material for Electrochemical Oxygen Redox Reactions in an Alkaline Medium. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6408-6415	6.1	3
108	Femtosecond time-evolution of mid-infrared spectral line shapes of Dirac fermions in topological insulators. <i>Scientific Reports</i> , <b>2020</b> , 10, 9803	4.9	1
107	Flexible and free-standing polyvinyl alcohol-reduced graphene oxide-Cu <sub>2</sub> O/CuO thin films for electrochemical reduction of carbon dioxide. <i>Journal of Applied Electrochemistry</i> , <b>2020</b> , 50, 979-991	2.6	5
106	Synergistic optimization of thermoelectric performance of Sb doped GeTe with a strained domain and domain boundaries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 5332-5341	13	29
105	Selenium nanoparticle prepared by femtosecond laser-induced plasma shock wave. <i>Optics Express</i> , <b>2020</b> , 28, 685-694	3.3	2
104	Electrosynthesis of carbon aerogel-modified AuNPs@quercetin via an environmentally benign method for hydrazine (HZ) and hydroxylamine (HA) detection. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 586-595	3.6	3
103	Influence Na in GeTe for thermoelectric applications. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 4332-4335	1.4	1

102	Superposition of semiconductor and semi-metal properties of self-assembled 2D SnTiS <sub>3</sub> heterostructures. <i>Npj 2D Materials and Applications</i> , <b>2020</b> , 4,	8.8	5
101	Multilayer GaSe/InSe Heterointerface-Based Devices for Charge Transport and Optoelectronics. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 11769-11776	5.6	2
100	Thin film LiV <sub>3</sub> O <sub>8</sub> nanorod formation through Pulsed Laser Deposition and the effect of heat treatment. <i>Vacuum</i> , <b>2020</b> , 182, 109722	3.7	2
99	Carbon-supported cobalt (III) complex for direct reduction of oxygen in alkaline medium. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 24738-24748	6.7	3
98	Unprecedented random lasing in 2D organolead halide single-crystalline perovskite microrods. <i>Nanoscale</i> , <b>2020</b> , 12, 18269-18277	7.7	10
97	Anisotropic Magnetic Properties of Nonsymmorphic Semimetallic Single Crystal NdSbTe. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 6585-6591	3.5	2
96	Electron-electron interactions in the two-dimensional semiconductor InSe. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1
95	Anisotropic Transport and Quantum Oscillations in the Quasi-One-Dimensional TaNiTe: Evidence for the Nontrivial Band Topology. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 7782-7789	6.4	11
94	High-Performance Flexible Broadband Photodetectors Based on 2D Hafnium Selenosulfide Nanosheets. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1900794	6.4	12
93	High unsaturated room-temperature magnetoresistance in phase-engineered Mo <sub>x</sub> W <sub>1-x</sub> Te <sub>2</sub> +□ ultrathin films. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10996-11004	7.1	5
92	Prospective observational study: Fast ripple localization delineates the epileptogenic zone. <i>Clinical Neurophysiology</i> , <b>2019</b> , 130, 2144-2152	4.3	11
91	Enhanced thermoelectric performance of BiCuTeO by excess Bi additions. <i>Ceramics International</i> , <b>2019</b> , 45, 9254-9259	5.1	6
90	Electrochemical sensing of free radical antioxidant diphenylamine cations (DPAH <sup>•+</sup> ) with carbon interlaced nanoflake-assembled Mg <sub>x</sub> Ni <sub>9-x</sub> S <sub>8</sub> microspheres. <i>CrystEngComm</i> , <b>2019</b> , 21, 724-735	3.3	14
89	Sn-Doping Enhanced Ultrahigh Mobility InSnSe Phototransistor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24269-24278	9.5	12
88	Thickness-Dependent Resonant Raman and E <sup>+</sup> Photoluminescence Spectra of Indium Selenide and Indium Selenide/Graphene Heterostructures. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 15345-15353	3.8	11
87	A chitosan grafted mesoporous carbon aerogel for ultra-sensitive voltammetric determination of isoniazid. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 419	5.8	2
86	Enhanced thermoelectric performance of GeTe through in situ microdomain and Ge-vacancy control. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 15181-15189	13	35
85	Surface Reconstruction, Oxidation Mechanism, and Stability of Cd <sub>3</sub> As <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900965	15.6	9

84	Surface Instability and Chemical Reactivity of ZrSiS and ZrSiSe Nodal-Line Semimetals. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900438	15.6	5
83	Photodriven Dipole Reordering: Key to Carrier Separation in Metalorganic Halide Perovskites. <i>ACS Nano</i> , <b>2019</b> , 13, 4402-4409	16.7	26
82	High-Temperature Defect-Induced Hopping Conduction in Multilayered Germanium Sulfide for Optoelectronic Applications in Harsh Environments. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 2169-2175	5.6	10
81	Crystal Growth and Magnetic Properties of Topological Nodal-Line Semimetal GdSbTe with Antiferromagnetic Spin Ordering. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 11730-11737	5.1	12
80	Heavy Mediator at Quantum Dot/Graphene Heterojunction for Efficient Charge Carrier Transfer: Alternative Approach for High-Performance Optoelectronic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26518-26527	9.5	6
79	Enhanced Thermoelectric Performance via Oxygen Manipulation in BiCuTeO. <i>MRS Advances</i> , <b>2019</b> , 4, 499-505	0.7	1
78	Oxidized-monolayer tunneling barrier for strong Fermi-level depinning in layered InSe transistors. <i>Npj 2D Materials and Applications</i> , <b>2019</b> , 3,	8.8	8
77	Optical signatures of Dirac nodal lines in NbAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 1168-1173	11.5	35
76	Hybrid InSe Nanosheets and MoS <sub>2</sub> Quantum Dots for High-Performance Broadband Photodetectors and Photovoltaic Cells. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1801336	4.6	13
75	Sonochemical driven simple preparation of nitrogen-doped carbon quantum dots/SnO <sub>2</sub> nanocomposite: A novel electrocatalyst for sensitive voltammetric determination of riboflavin. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 281, 602-612	8.5	42
74	Low-Threshold Lasing from 2D Homologous Organic-Inorganic Hybrid Ruddlesden-Popper Perovskite Single Crystals. <i>Nano Letters</i> , <b>2018</b> , 18, 3221-3228	11.5	124
73	Two-dimensional transport and strong spin-orbit interaction in SrMnSb <sub>2</sub> . <i>Chinese Physics B</i> , <b>2018</b> , 27, 017504	1.2	2
72	Superconductivity in a Misfit Layered (SnS) <sub>1.15</sub> (TaS <sub>2</sub> ) Compound. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1373-1378	13.7	18
71	Ultrasensitive tunability of the direct bandgap of 2D InSe flakes via strain engineering. <i>2D Materials</i> , <b>2018</b> , 5, 021002	5.9	53
70	Topological Type-II Dirac Fermions Approaching the Fermi Level in a Transition Metal Dichalcogenide NiTe <sub>2</sub> . <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4823-4830	9.6	57
69	Atomic-scale strain manipulation of a charge density wave. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 6986-6990	11.5	24
68	Emergence of a Metal-Insulator Transition and High-Temperature Charge-Density Waves in VSe at the Monolayer Limit. <i>Nano Letters</i> , <b>2018</b> , 18, 5432-5438	11.5	123
67	Distinct multiple fermionic states in a single topological metal. <i>Nature Communications</i> , <b>2018</b> , 9, 3002	17.4	8

66	Enhanced Light Emission from the Ridge of Two-Dimensional InSe Flakes. <i>Nano Letters</i> , <b>2018</b> , 18, 5078-5084	10.8	21
65	Anisotropic magnetotransport and extremely large magnetoresistance in NbAs single crystals. <i>Scientific Reports</i> , <b>2018</b> , 8, 6414	4.9	10
64	Tuning Rashba Spin-Orbit Coupling in Gated Multilayer InSe. <i>Nano Letters</i> , <b>2018</b> , 18, 4403-4408	11.5	39
63	Inducing Strong Superconductivity in WTe by a Proximity Effect. <i>ACS Nano</i> , <b>2018</b> , 12, 7185-7196	16.7	26
62	Crystal growth and transport properties of Weyl semimetal TaAs. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 015803	1.8	4
61	Intrinsic Carrier Transport of Phase-Pure Homologous 2D Organolead Halide Hybrid Perovskite Single Crystals. <i>Small</i> , <b>2018</b> , 14, e1803763	11	26
60	Surface termination dependent quasiparticle scattering interference and magneto-transport study on ZrSiS. <i>New Journal of Physics</i> , <b>2018</b> , 20, 103025	2.9	11
59	Anisotropy in the magnetic interaction and lattice-orbital coupling of single crystal NiTeO. <i>Scientific Reports</i> , <b>2018</b> , 8, 15779	4.9	3
58	Influence of GeP precipitates on the thermoelectric properties of P-type GeTe and Ge <sub>0.9</sub> PxSb <sub>0.1</sub> Te compounds. <i>CrystEngComm</i> , <b>2018</b> , 20, 6449-6457	3.3	5
57	Ultra-high performance flexible piezopotential gated InSnSe phototransistor. <i>Nanoscale</i> , <b>2018</b> , 10, 18642-18650	7.7	59
56	High-Performance InSe Transistors with Ohmic Contact Enabled by Nonrectifying Barrier-Type Indium Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 33450-33456	9.5	20
55	Epitaxial growth of vertically stacked p-MoS <sub>2</sub> /n-MoS <sub>2</sub> heterostructures by chemical vapor deposition for light emitting devices. <i>Nano Energy</i> , <b>2017</b> , 32, 454-462	17.1	37
54	Crystal growth of Dirac semimetal ZrSiS with high magnetoresistance and mobility. <i>Scientific Reports</i> , <b>2017</b> , 7, 40603	4.9	41
53	Observation of surface superstructure induced by systematic vacancies in the topological Dirac semimetal Cd <sub>3</sub> As <sub>2</sub> . <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	3
52	Topological Quantum Phase Transition and Superconductivity Induced by Pressure in the Bismuth Tellurohalide BiTeI. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605965	24	36
51	Polymorphic Layered MoTe <sub>2</sub> from Semiconductor, Topological Insulator, to Weyl Semimetal. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 699-707	9.6	40
50	Surface Oxidation Doping to Enhance Photogenerated Carrier Separation Efficiency for Ultrahigh Gain Indium Selenide Photodetector. <i>ACS Photonics</i> , <b>2017</b> , 4, 2930-2936	6.3	34
49	Anomalous Acoustic Plasmon Mode from Topologically Protected States. <i>Physical Review Letters</i> , <b>2017</b> , 119, 136805	7.4	30

48	Ambipolar field-effect transistors by few-layer InSe with asymmetry contact metals. <i>AIP Advances</i> , <b>2017</b> , 7, 075314	1.5	8
47	Proximity-effect-induced Superconducting Gap in Topological Surface States - A Point Contact Spectroscopy Study of NbSe/BiSe Superconductor-Topological Insulator Heterostructures. <i>Scientific Reports</i> , <b>2017</b> , 7, 7631	4.9	18
46	Tunability of the topological nodal-line semimetal phase in ZrSiX-type materials (X=S, Se, Te). <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	85
45	Quasiparticle interference in ZrSiS: Strongly band-selective scattering depending on impurity lattice site. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	12
44	Anisotropic superconducting property studies of single crystal PbTaSe. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 095601	1.8	14
43	Superconducting topological surface states in the noncentrosymmetric bulk superconductor PbTaSe. <i>Science Advances</i> , <b>2016</b> , 2, e1600894	14.3	88
42	Observation of topological nodal fermion semimetal phase in ZrSiS. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	232
41	Topological Dirac surface states and superconducting pairing correlations in PbTaSe <sub>2</sub> . <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	58
40	Screening limited switching performance of multilayer 2D semiconductor FETs: the case for SnS. <i>Nanoscale</i> , <b>2016</b> , 8, 19050-19057	7.7	49
39	Observation of the spin-polarized surface state in a noncentrosymmetric superconductor BiPd. <i>Nature Communications</i> , <b>2016</b> , 7, 13315	17.4	33
38	Electronic structure and relaxation dynamics in a superconducting topological material. <i>Scientific Reports</i> , <b>2016</b> , 6, 22557	4.9	16
37	Ultra-Thin Layered Ternary Single Crystals [Sn(SxSe1-x)2] with Bandgap Engineering for High Performance Phototransistors on Versatile Substrates. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3630-3638	15.6	56
36	Tunable Photoinduced Carrier Transport of a Black Phosphorus Transistor with Extended Stability Using a Light-Sensitized Encapsulated Layer. <i>ACS Photonics</i> , <b>2016</b> , 3, 1102-1108	6.3	16
35	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. <i>ACS Nano</i> , <b>2016</b> , 10, 1378-85	16.7	93
34	Growth of the Bi <sub>2</sub> Se <sub>3</sub> Surface Oxide for Metal-Semiconductor-Metal Device Applications. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 3314-3318	3.8	7
33	Topological nodal-line fermions in spin-orbit metal PbTaSe <sub>2</sub> . <i>Nature Communications</i> , <b>2016</b> , 7, 10556	17.4	514
32	Intermixing-seeded growth for high-performance planar heterojunction perovskite solar cells assisted by precursor-capped nanoparticles. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1282-1289	35.4	125
31	High photosensitivity and broad spectral response of multi-layered germanium sulfide transistors. <i>Nanoscale</i> , <b>2016</b> , 8, 2284-92	7.7	95



30	Quasiparticle Scattering in the Rashba Semiconductor BiTeBr: The Roles of Spin and Defect Lattice Site. <i>ACS Nano</i> , <b>2016</b> , 10, 9361-9369	16.7	4
29	TOPOLOGICAL MATTER. Discovery of a Weyl fermion semimetal and topological Fermi arcs. <i>Science</i> , <b>2015</b> , 349, 613-7	33.3	2165
28	Magnetic Orderings in Li <sub>2</sub> Cu(WO <sub>4</sub> ) <sub>2</sub> with Tungstate-Bridged Quasi-1D Spin-1/2 Chains. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 4303-9	5.1	10
27	Enhanced thermoelectric performance of GeTe-rich germanium antimony tellurides through the control of composition and structure. <i>CrystEngComm</i> , <b>2015</b> , 17, 3440-3445	3.3	23
26	Intrinsic Electron Mobility Exceeding 10 <sup>4</sup> cm <sup>2</sup> /(V s) in Multilayer InSe FETs. <i>Nano Letters</i> , <b>2015</b> , 15, 3815-9	11.5	278
25	Hierarchical spin-orbital polarization of a giant Rashba system. <i>Science Advances</i> , <b>2015</b> , 1, e1500495	14.3	27
24	Enhancement of thermoelectric figure of merit in $\alpha$ -Zn <sub>4</sub> Sb <sub>3</sub> by indium doping control. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 123902	3.4	21
23	Organic Monolayer Protected Topological Surface State. <i>Nano Letters</i> , <b>2015</b> , 15, 6896-900	11.5	8
22	Observation of Fermi arc surface states in a topological metal. <i>Science</i> , <b>2015</b> , 347, 294-8	33.3	488
21	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	12
20	Fe-excess Ions as Electronic Charge Suppliers for Zero Thermal Expansion in the Normal State of Fe <sub>1.16</sub> Te <sub>0.6</sub> Se <sub>0.4</sub> . <i>Journal of the Physical Society of Japan</i> , <b>2015</b> , 84, 094713	1.5	0
19	Manifestation of a Second Dirac Surface State and Bulk Bands in THz Radiation from Topological Insulators. <i>Scientific Reports</i> , <b>2015</b> , 5, 14128	4.9	23
18	Development of a ferromagnetic component in the superconducting state of Fe-excess Fe <sub>1.12</sub> Te(1-x)Se <sub>x</sub> by electronic charge redistribution. <i>Scientific Reports</i> , <b>2015</b> , 5, 10951	4.9	1
17	Experimental discovery of a topological Weyl semimetal state in TaP. <i>Science Advances</i> , <b>2015</b> , 1, e1501092	14.3	241
16	Observation of a three-dimensional topological Dirac semimetal phase in high-mobility Cd <sub>3</sub> As <sub>2</sub> . <i>Nature Communications</i> , <b>2014</b> , 5, 3786	17.4	938
15	High performance and bendable few-layered InSe photodetectors with broad spectral response. <i>Nano Letters</i> , <b>2014</b> , 14, 2800-6	11.5	563
14	Momentum-space imaging of Cooper pairing in a half-Dirac-gas topological superconductor. <i>Nature Physics</i> , <b>2014</b> , 10, 943-950	16.2	113
13	Influence of In doping on the thermoelectric properties of an AgSbTe <sub>2</sub> compound with enhanced figure of merit. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2839	13	20



12	Observation of monolayer valence band spin-orbit effect and induced quantum well states in MoX <sub>2</sub> . <i>Nature Communications</i> , <b>2014</b> , 5, 4673	17.4	93
11	Direct Interplay between Superconductivity and Ferromagnetism in Fe <sub>1+y</sub> (Te <sub>0.5</sub> Se <sub>0.5</sub> ). <i>Journal of the Physical Society of Japan</i> , <b>2014</b> , 83, 074709	1.5	1
10	Influence of nanoscale Ag <sub>2</sub> Te precipitates on the thermoelectric properties of the Sn doped P-type AgSbTe <sub>2</sub> compound. <i>APL Materials</i> , <b>2014</b> , 2, 096114	5.7	10
9	Mapping polarization induced surface band bending on the Rashba semiconductor BiTeI. <i>Nature Communications</i> , <b>2014</b> , 5, 4066	17.4	30
8	THz Generation and Detection on Dirac Fermions in Topological Insulators. <i>Advanced Optical Materials</i> , <b>2013</b> , 1, 804-808	8.1	41
7	Large magnetoresistance and charge transfer between the conduction and magnetic electrons in layered oxyselenide BiOCu <sub>0.96</sub> Se. <i>Dalton Transactions</i> , <b>2013</b> , 42, 15581-90	4.3	3
6	Magnetic-Field Tunable Negative Thermal Expansion in Layered Oxyselenide BiOCuSe. <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 094705	1.5	2
5	Enhanced thermoelectric performance in Bi-doped p-type AgSbTe <sub>2</sub> compounds. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 163712	2.5	19
4	Spin, charge and lattice couplings in Cu-deficient oxysulphide BiOCu <sub>0.94</sub> S. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 266004	1.8	8
3	Interplay between the Crystalline and Magnetic Structures in BiOCu <sub>0.94</sub> S. <i>Journal of the Physical Society of Japan</i> , <b>2011</b> , 80, SB011	1.5	1
2	Anisotropic transport in a possible quasi-one-dimensional topological candidate: TaNi <sub>2</sub> Te <sub>3</sub> . <i>Tungsten</i> , 1	4.6	0
1	Stable Formamidinium-Based Centimeter Long Two-Dimensional Lead Halide Perovskite Single-Crystal for Long-Live Optoelectronic Applications. <i>Advanced Functional Materials</i> , 2112277	15.6	3