

Sankar Raman

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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	TOPOLOGICAL MATTER. Discovery of a Weyl fermion semimetal and topological Fermi arcs. <i>Science</i> , 2015 , 349, 613-7	33.3	2165
136	Observation of a three-dimensional topological Dirac semimetal phase in high-mobility Cd ₃ As ₂ . <i>Nature Communications</i> , 2014 , 5, 3786	17.4	938
135	High performance and bendable few-layered InSe photodetectors with broad spectral response. <i>Nano Letters</i> , 2014 , 14, 2800-6	11.5	563
134	Topological nodal-line fermions in spin-orbit metal PbTaSe ₂ . <i>Nature Communications</i> , 2016 , 7, 10556	17.4	514
133	Observation of Fermi arc surface states in a topological metal. <i>Science</i> , 2015 , 347, 294-8	33.3	488
132	Intrinsic Electron Mobility Exceeding 10 ⁴ cm ² /(V s) in Multilayer InSe FETs. <i>Nano Letters</i> , 2015 , 15, 3815-9	11.5	278
131	Experimental discovery of a topological Weyl semimetal state in TaP. <i>Science Advances</i> , 2015 , 1, e1501092	14.3	241
130	Observation of topological nodal fermion semimetal phase in ZrSiS. <i>Physical Review B</i> , 2016 , 93,	3.3	232
129	Intermixing-seeded growth for high-performance planar heterojunction perovskite solar cells assisted by precursor-capped nanoparticles. <i>Energy and Environmental Science</i> , 2016 , 9, 1282-1289	35.4	125
128	Low-Threshold Lasing from 2D Homologous Organic-Inorganic Hybrid Ruddlesden-Popper Perovskite Single Crystals. <i>Nano Letters</i> , 2018 , 18, 3221-3228	11.5	124
127	Emergence of a Metal-Insulator Transition and High-Temperature Charge-Density Waves in VSe at the Monolayer Limit. <i>Nano Letters</i> , 2018 , 18, 5432-5438	11.5	123
126	Momentum-space imaging of Cooper pairing in a half-Dirac-gas topological superconductor. <i>Nature Physics</i> , 2014 , 10, 943-950	16.2	113
125	High photosensitivity and broad spectral response of multi-layered germanium sulfide transistors. <i>Nanoscale</i> , 2016 , 8, 2284-92	7.7	95
124	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. <i>ACS Nano</i> , 2016 , 10, 1378-85	16.7	93
123	Observation of monolayer valence band spin-orbit effect and induced quantum well states in MoX ₂ . <i>Nature Communications</i> , 2014 , 5, 4673	17.4	93
122	Superconducting topological surface states in the noncentrosymmetric bulk superconductor PbTaSe. <i>Science Advances</i> , 2016 , 2, e1600894	14.3	88
121	Tunability of the topological nodal-line semimetal phase in ZrSiX-type materials (X=S, Se, Te). <i>Physical Review B</i> , 2017 , 95,	3.3	85

120	Topological Dirac surface states and superconducting pairing correlations in PbTaSe ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	58
119	Topological Type-II Dirac Fermions Approaching the Fermi Level in a Transition Metal Dichalcogenide NiTe ₂ . <i>Chemistry of Materials</i> , 2018 , 30, 4823-4830	9.6	57
118	Ultra-Thin Layered Ternary Single Crystals [Sn(SxSe _{1-x}) ₂] with Bandgap Engineering for High Performance Phototransistors on Versatile Substrates. <i>Advanced Functional Materials</i> , 2016 , 26, 3630-3638	15.6	56
117	Ultrasensitive tunability of the direct bandgap of 2D InSe flakes via strain engineering. <i>2D Materials</i> , 2018 , 5, 021002	5.9	53
116	Screening limited switching performance of multilayer 2D semiconductor FETs: the case for SnS. <i>Nanoscale</i> , 2016 , 8, 19050-19057	7.7	49
115	Sonochemical driven simple preparation of nitrogen-doped carbon quantum dots/SnO ₂ nanocomposite: A novel electrocatalyst for sensitive voltammetric determination of riboflavin. <i>Sensors and Actuators B: Chemical</i> , 2019 , 281, 602-612	8.5	42
114	Crystal growth of Dirac semimetal ZrSiS with high magnetoresistance and mobility. <i>Scientific Reports</i> , 2017 , 7, 40603	4.9	41
113	THz Generation and Detection on Dirac Fermions in Topological Insulators. <i>Advanced Optical Materials</i> , 2013 , 1, 804-808	8.1	41
112	Polymorphic Layered MoTe ₂ from Semiconductor, Topological Insulator, to Weyl Semimetal. <i>Chemistry of Materials</i> , 2017 , 29, 699-707	9.6	40
111	Tuning Rashba Spin-Orbit Coupling in Gated Multilayer InSe. <i>Nano Letters</i> , 2018 , 18, 4403-4408	11.5	39
110	Epitaxial growth of vertically stacked p-MoS ₂ /n-MoS ₂ heterostructures by chemical vapor deposition for light emitting devices. <i>Nano Energy</i> , 2017 , 32, 454-462	17.1	37
109	Topological Quantum Phase Transition and Superconductivity Induced by Pressure in the Bismuth Tellurohalide BiTeI. <i>Advanced Materials</i> , 2017 , 29, 1605965	24	36
108	Enhanced thermoelectric performance of GeTe through in situ microdomain and Ge-vacancy control. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15181-15189	13	35
107	Optical signatures of Dirac nodal lines in NbAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1168-1173	11.5	35
106	Surface Oxidation Doping to Enhance Photogenerated Carrier Separation Efficiency for Ultrahigh Gain Indium Selenide Photodetector. <i>ACS Photonics</i> , 2017 , 4, 2930-2936	6.3	34
105	Observation of the spin-polarized surface state in a noncentrosymmetric superconductor BiPd. <i>Nature Communications</i> , 2016 , 7, 13315	17.4	33
104	Anomalous Acoustic Plasmon Mode from Topologically Protected States. <i>Physical Review Letters</i> , 2017 , 119, 136805	7.4	30
103	Mapping polarization induced surface band bending on the Rashba semiconductor BiTeI. <i>Nature Communications</i> , 2014 , 5, 4066	17.4	30

102	Synergistic optimization of thermoelectric performance of Sb doped GeTe with a strained domain and domain boundaries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5332-5341	13	29
101	Hierarchical spin-orbital polarization of a giant Rashba system. <i>Science Advances</i> , 2015 , 1, e1500495	14.3	27
100	Photodriven Dipole Reordering: Key to Carrier Separation in Metalorganic Halide Perovskites. <i>ACS Nano</i> , 2019 , 13, 4402-4409	16.7	26
99	Inducing Strong Superconductivity in WTe by a Proximity Effect. <i>ACS Nano</i> , 2018 , 12, 7185-7196	16.7	26
98	Intrinsic Carrier Transport of Phase-Pure Homologous 2D Organolead Halide Hybrid Perovskite Single Crystals. <i>Small</i> , 2018 , 14, e1803763	11	26
97	Atomic-scale strain manipulation of a charge density wave. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6986-6990	11.5	24
96	Enhanced thermoelectric performance of GeTe-rich germanium antimony tellurides through the control of composition and structure. <i>CrystEngComm</i> , 2015 , 17, 3440-3445	3.3	23
95	Manifestation of a Second Dirac Surface State and Bulk Bands in THz Radiation from Topological Insulators. <i>Scientific Reports</i> , 2015 , 5, 14128	4.9	23
94	Enhancement of thermoelectric figure of merit in PbZn_4Sb_3 by indium doping control. <i>Applied Physics Letters</i> , 2015 , 107, 123902	3.4	21
93	Enhanced Light Emission from the Ridge of Two-Dimensional InSe Flakes. <i>Nano Letters</i> , 2018 , 18, 5078-5084	5.4	21
92	Influence of In doping on the thermoelectric properties of an AgSbTe ₂ compound with enhanced figure of merit. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2839	13	20
91	High-Performance InSe Transistors with Ohmic Contact Enabled by Nonrectifying Barrier-Type Indium Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33450-33456	9.5	20
90	Enhanced thermoelectric performance in Bi-doped p-type AgSbTe ₂ compounds. <i>Journal of Applied Physics</i> , 2013 , 114, 163712	2.5	19
89	Superconductivity in a Misfit Layered (SnS) _{1.15} (TaS ₂) Compound. <i>Chemistry of Materials</i> , 2018 , 30, 1373-1378	13.7	18
88	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> , 2017 , 7, 7631	4.9	18
87	Electronic structure and relaxation dynamics in a superconducting topological material. <i>Scientific Reports</i> , 2016 , 6, 22557	4.9	16
86	Tunable Photoinduced Carrier Transport of a Black Phosphorus Transistor with Extended Stability Using a Light-Sensitized Encapsulated Layer. <i>ACS Photonics</i> , 2016 , 3, 1102-1108	6.3	16
85	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. <i>Physical Review B</i> , 2020 , 101,	3.3	15

84	Electrochemical sensing of free radical antioxidant diphenylamine cations (DPAH ^{•+}) with carbon interlaced nanoflake-assembled Mg ₉ Ni ₉ S ₈ microspheres. <i>CrystEngComm</i> , 2019 , 21, 724-735	3.3	14
83	Anisotropic superconducting property studies of single crystal PbTaSe. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 095601	1.8	14
82	Hybrid InSe Nanosheets and MoS ₂ Quantum Dots for High-Performance Broadband Photodetectors and Photovoltaic Cells. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801336	4.6	13
81	Sn-Doping Enhanced Ultrahigh Mobility InSnSe Phototransistor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24269-24278	9.5	12
80	Modulating Charge Separation with Hexagonal Boron Nitride Mediation in Vertical Van der Waals Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26213-26221	9.5	12
79	Crystal Growth and Magnetic Properties of Topological Nodal-Line Semimetal GdSbTe with Antiferromagnetic Spin Ordering. <i>Inorganic Chemistry</i> , 2019 , 58, 11730-11737	5.1	12
78	Quasiparticle interference in ZrSiS: Strongly band-selective scattering depending on impurity lattice site. <i>Physical Review B</i> , 2017 , 96,	3.3	12
77	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. <i>Physical Review B</i> , 2015 , 91,	3.3	12
76	High-Performance Flexible Broadband Photodetectors Based on 2D Hafnium Selenosulfide Nanosheets. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900794	6.4	12
75	Prospective observational study: Fast ripple localization delineates the epileptogenic zone. <i>Clinical Neurophysiology</i> , 2019 , 130, 2144-2152	4.3	11
74	Thickness-Dependent Resonant Raman and E ² Photoluminescence Spectra of Indium Selenide and Indium Selenide/Graphene Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 15345-15353	3.8	11
73	Anisotropic Transport and Quantum Oscillations in the Quasi-One-Dimensional TaNiTe: Evidence for the Nontrivial Band Topology. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7782-7789	6.4	11
72	A Bi-Anti-Ambipolar Field Effect Transistor. <i>ACS Nano</i> , 2021 , 15, 8686-8693	16.7	11
71	Surface termination dependent quasiparticle scattering interference and magneto-transport study on ZrSiS. <i>New Journal of Physics</i> , 2018 , 20, 103025	2.9	11
70	High-Temperature Defect-Induced Hopping Conduction in Multilayered Germanium Sulfide for Optoelectronic Applications in Harsh Environments. <i>ACS Applied Nano Materials</i> , 2019 , 2, 2169-2175	5.6	10
69	Magnetic Orderings in Li ₂ Cu(WO ₄) ₂ with Tungstate-Bridged Quasi-1D Spin-1/2 Chains. <i>Inorganic Chemistry</i> , 2015 , 54, 4303-9	5.1	10
68	Ultralow Schottky Barriers in Hexagonal Boron Nitride-Encapsulated Monolayer WSe Tunnel Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18667-18673	9.5	10
67	Anisotropic magnetotransport and extremely large magnetoresistance in NbAs single crystals. <i>Scientific Reports</i> , 2018 , 8, 6414	4.9	10

66	Influence of nanoscale Ag ₂ Te precipitates on the thermoelectric properties of the Sn doped P-type AgSbTe ₂ compound. <i>APL Materials</i> , 2014 , 2, 096114	5.7	10
65	Unprecedented random lasing in 2D organolead halide single-crystalline perovskite microrods. <i>Nanoscale</i> , 2020 , 12, 18269-18277	7.7	10
64	Surface Reconstruction, Oxidation Mechanism, and Stability of Cd ₃ As ₂ . <i>Advanced Functional Materials</i> , 2019 , 29, 1900965	15.6	9
63	Synergistic optimization of thermoelectric performance in earth-abundant CuZnSnS by inclusion of graphene nanosheets. <i>Nanotechnology</i> , 2020 , 31, 365402	3.4	9
62	Ultra-high performance flexible piezopotential gated InSnSe phototransistor. <i>Nanoscale</i> , 2018 , 10, 18642-18650	7.7	9
61	Organic Monolayer Protected Topological Surface State. <i>Nano Letters</i> , 2015 , 15, 6896-900	11.5	8
60	Evidence for nematic superconductivity of topological surface states in PbTaSe ₂ . <i>Science Bulletin</i> , 2020 , 65, 1349-1355	10.6	8
59	Distinct multiple fermionic states in a single topological metal. <i>Nature Communications</i> , 2018 , 9, 3002	17.4	8
58	Ambipolar field-effect transistors by few-layer InSe with asymmetry contact metals. <i>AIP Advances</i> , 2017 , 7, 075314	1.5	8
57	Spin, charge and lattice couplings in Cu-deficient oxysulphide BiOCu _{0.94} S. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 266004	1.8	8
56	Oxidized-monolayer tunneling barrier for strong Fermi-level depinning in layered InSe transistors. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	8
55	Growth of the Bi ₂ Se ₃ Surface Oxide for Metal/Semiconductor/Metal Device Applications. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3314-3318	3.8	7
54	Enhanced thermoelectric performance of BiCuTeO by excess Bi additions. <i>Ceramics International</i> , 2019 , 45, 9254-9259	5.1	6
53	Heavy Mediator at Quantum Dot/Graphene Heterojunction for Efficient Charge Carrier Transfer: Alternative Approach for High-Performance Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26518-26527	9.5	6
52	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> , 2021 , 11, 1424-1433	5.5	6
51	Staggered band offset induced high performance opto-electronic devices: Atomically thin vertically stacked GaSe-SnS ₂ van der Waals p-n heterostructures. <i>Applied Surface Science</i> , 2021 , 535, 147480	6.7	6
50	Tailoring the Co/Co active sites in a single perovskite as a bifunctional catalyst for the oxygen electrode reactions. <i>Dalton Transactions</i> , 2021 , 50, 7212-7222	4.3	6
49	High unsaturated room-temperature magnetoresistance in phase-engineered Mo _x W _{1-x} Te ₂ +□ ultrathin films. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10996-11004	7.1	5

48	Surface Instability and Chemical Reactivity of ZrSiS and ZrSiSe Nodal-Line Semimetals. <i>Advanced Functional Materials</i> , 2019 , 29, 1900438	15.6	5
47	Flexible and free-standing polyvinyl alcohol-reduced graphene oxide-Cu ₂ O/CuO thin films for electrochemical reduction of carbon dioxide. <i>Journal of Applied Electrochemistry</i> , 2020 , 50, 979-991	2.6	5
46	Superposition of semiconductor and semi-metal properties of self-assembled 2D SnTiS ₃ heterostructures. <i>Npj 2D Materials and Applications</i> , 2020 , 4,	8.8	5
45	Influence of GeP precipitates on the thermoelectric properties of P-type GeTe and Ge _{0.9} PxSb _{0.1} Te compounds. <i>CrystEngComm</i> , 2018 , 20, 6449-6457	3.3	5
44	Repurposing INCI-registered compounds as skin prebiotics for probiotic <i>Staphylococcus epidermidis</i> against UV-B. <i>Scientific Reports</i> , 2020 , 10, 21585	4.9	4
43	Chemical tuning of magnetic anisotropy and correlations in Ni _{1-x} Fe _x PS ₃ . <i>Physical Review B</i> , 2021 , 104,	3.3	4
42	Quasiparticle Scattering in the Rashba Semiconductor BiTeBr: The Roles of Spin and Defect Lattice Site. <i>ACS Nano</i> , 2016 , 10, 9361-9369	16.7	4
41	Crystal growth and transport properties of Weyl semimetal TaAs. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 015803	1.8	4
40	Observation of surface superstructure induced by systematic vacancies in the topological Dirac semimetal Cd ₃ As ₂ . <i>Physical Review B</i> , 2017 , 95,	3.3	3
39	Nickel-Based Hybrid Material for Electrochemical Oxygen Redox Reactions in an Alkaline Medium. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6408-6415	6.1	3
38	Large magnetoresistance and charge transfer between the conduction and magnetic electrons in layered oxyselenide BiOCu(0.96)Se. <i>Dalton Transactions</i> , 2013 , 42, 15581-90	4.3	3
37	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> , 2022 , 5, 343-354	6.1	3
36	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> , 2020 , 44, 586-595	3.6	3
35	Carbon-supported cobalt (III) complex for direct reduction of oxygen in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 24738-24748	6.7	3
34	Engineering an Indium Selenide van der Waals Interface for Multilevel Charge Storage. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4618-4625	9.5	3
33	Anisotropy in the magnetic interaction and lattice-orbital coupling of single crystal NiTeO. <i>Scientific Reports</i> , 2018 , 8, 15779	4.9	3
32	Magnetic properties of honeycomb spin lattice compounds Na ₂ M ₂ TeO ₆ (M = Co, Ni) and spin dimer compound Na ₂ Cu ₂ TeO ₆ single crystals by flux-growth. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 1601-1608	5.5	3
31	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

30	A chitosan grafted mesoporous carbon aerogel for ultra-sensitive voltammetric determination of isoniazid. <i>Mikrochimica Acta</i> , 2019 , 186, 419	5.8	2
29	Two-dimensional transport and strong spin-orbit interaction in SrMnSb 2. <i>Chinese Physics B</i> , 2018 , 27, 017504	1.2	2
28	Magnetic-Field Tunable Negative Thermal Expansion in Layered Oxyselenide BiOCuSe. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 094705	1.5	2
27	Selenium nanoparticle prepared by femtosecond laser-induced plasma shock wave. <i>Optics Express</i> , 2020 , 28, 685-694	3.3	2
26	Multilayer GaSe/InSe Heterointerface-Based Devices for Charge Transport and Optoelectronics. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11769-11776	5.6	2
25	Thin film LiV3O8 nanorod formation through Pulsed Laser Deposition and the effect of heat treatment. <i>Vacuum</i> , 2020 , 182, 109722	3.7	2
24	Anisotropic Magnetic Properties of Nonsymorphic Semimetallic Single Crystal NdSbTe. <i>Crystal Growth and Design</i> , 2020 , 20, 6585-6591	3.5	2
23	Switching of the electron-phonon interaction in 1T'WSe2 assisted by hot carriers. <i>Physical Review B</i> , 2021 , 103,	3.3	2
22	Assessing the stability of Cd3As2 Dirac semimetal in humid environments: the influence of defects, steps and surface oxidation. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1235-1244	7.1	2
21	Femtosecond time-evolution of mid-infrared spectral line shapes of Dirac fermions in topological insulators. <i>Scientific Reports</i> , 2020 , 10, 9803	4.9	1
20	Enhanced Thermoelectric Performance via Oxygen Manipulation in BiCuTeO. <i>MRS Advances</i> , 2019 , 4, 499-505	0.7	1
19	Direct Interplay between Superconductivity and Ferromagnetism in Fe _{1+y} (Te _{0.5} Se _{0.5}). <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 074709	1.5	1
18	Development of a ferromagnetic component in the superconducting state of Fe-excess Fe _{1.12} Te _(1-x) Se _x by electronic charge redistribution. <i>Scientific Reports</i> , 2015 , 5, 10951	4.9	1
17	Interplay between the Crystalline and Magnetic Structures in BiOCu _{0.94} S. <i>Journal of the Physical Society of Japan</i> , 2011 , 80, SB011	1.5	1
16	Segmented Highly Reversible Thermochromic Layered Perovskite [(CH ₃) ₂ (NH ₃) ₂]CuCl ₄ Crystal Coupled with an Inverse Magnetocaloric Effect. <i>ACS Applied Electronic Materials</i> , 2022 , 4, 521-530	4	1
15	Influence Na in GeTe for thermoelectric applications. <i>Materials Today: Proceedings</i> , 2020 , 33, 4332-4335	1.4	1
14	Electron-electron interactions in the two-dimensional semiconductor InSe. <i>Physical Review B</i> , 2020 , 102,	3.3	1
13	Revealing the Quasi-Periodic Crystallographic Structure of Self-Assembled SnTiS ₃ Misfit Compound. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9956-9964	3.8	1

12	Evidence for largest room temperature magnetic signal from Co ²⁺ in antiphase-free & fully inverted CoFe ₂ O ₄ in multiferroic-ferrimagnetic BiFeO ₃ -CoFe ₂ O ₄ nanopillar thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 530, 167940	2.8	1
11	Pressure-Induced Excitations in the Out-of-Plane Optical Response of the Nodal-Line Semimetal ZrSiS. <i>Physical Review Letters</i> , 2021 , 127, 076402	7.4	1
10	Silicon-based two-dimensional chalcogenide of p-type semiconducting silicon telluride nanosheets for ultrahigh sensitive photodetector applications. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10478-10486	7.1	1
9	Water-assisted spin-flop antiferromagnetic behaviour of hydrophobic Cu-based metal-organic frameworks. <i>Dalton Transactions</i> , 2021 , 50, 5754-5758	4.3	1
8	Magnetotransport in hybrid InSe/monolayer graphene on SiC. <i>Nanotechnology</i> , 2021 , 32, 155704	3.4	1
7	Fe-excess Ions as Electronic Charge Suppliers for Zero Thermal Expansion in the Normal State of Fe _{1.16} Te _{0.6} Se _{0.4} . <i>Journal of the Physical Society of Japan</i> , 2015 , 84, 094713	1.5	o
6	Achieving synergistic performance through highly compacted microcrystalline rods induced in Mo doped GeTe based compounds. <i>Materials Today Physics</i> , 2021 , 100571	8	o
5	Internal and External Pressure Effects on Superconductivity in FeTe _x Se _{1-x} (x = 0.46, 0.54) Single Crystals. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021 , 34, 725-731	1.5	o
4	Anisotropic transport in a possible quasi-one-dimensional topological candidate: TaNi ₂ Te ₃ . <i>Tungsten</i> , 2021 , 1	4.6	o
3	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> , 2022 , 5, 1911-1916	5.6	o
2	Direct investigation of the reorientational dynamics of A-site cations in 2D organic-inorganic hybrid perovskite by solid-state NMR. <i>Nature Communications</i> , 2022 , 13, 1513	17.4	o
1	Two-Dimensional Layered NiLiP ₂ S ₆ Crystals as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Catalysts</i> , 2021 , 11, 786	4	