## Jian Zhou

# 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.

 251
 9,480
 44
 91

 papers
 citations
 h-index
 g-index

 270
 11,659
 6
 6.81

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
251	Realization of adjustable electron concentration and its effect on electrical- and Seebeck-property of n-type SnSe crystals. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 022102	3.4	O
250	Computational design of double transition metal MXenes with intrinsic magnetic properties <i>Nanoscale Horizons</i> , <b>2022</b> ,	10.8	5
249	Dual-regulation strategy to enhance electrochemical catalysis ability of NiCo2O4-x for polysulfides conversion in Li-S batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131109	14.7	2
248	Enhanced photothermoelectric detection in Co:BiCuSeO crystals with tunable Seebeck effect <i>Optics Express</i> , <b>2022</b> , 30, 8356-8365	3.3	О
247	Screening transition metal-based polar pentagonal monolayers with large piezoelectricity and shift current. <i>Npj Computational Materials</i> , <b>2022</b> , 8,	10.9	4
246	Photo-magnetization in two-dimensional sliding ferroelectrics. <i>Npj 2D Materials and Applications</i> , <b>2022</b> , 6,	8.8	2
245	Magnetic Field Tuning of Magnetic- and Structure-Phase Transition in Mn2V2O7 Crystals. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 5055-5063	3.8	
244	Robust Design of High-Performance Optoelectronic Chalcogenide Crystals from High-Throughput Computation <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	4
243	Growth and Thermal Conductivity Study of CuCr2Se4-CuCrSe2 Hetero-Composite Crystals. <i>Crystals</i> , <b>2022</b> , 12, 433	2.3	
242	Growth and Electrical Properties of Polymorphs of Mo-Te Crystals. <i>Materials Research Bulletin</i> , <b>2022</b> , 151, 111796	5.1	
241	Materials Data toward Machine Learning: Advances and Challenges <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 3965-3977	6.4	O
240	Molecular dynamics and density functional theory study on the potassium distribution and lattice thermal conductivity of K RhO2. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2022</b> , 441, 128151	2.3	
239	High-harmonic generation in Weyl semimetal EWP crystals. <i>Nature Communications</i> , <b>2021</b> , 12, 6437	17.4	3
238	Coherence control of directional nonlinear photocurrent in spatially symmetric systems. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	3
237	The electrical- and magneto-transport properties of Rb-, Sn-, and Co-doped BiCuSeO crystals. <i>AIP Advances</i> , <b>2021</b> , 11, 105207	1.5	1
236	Non-hydrostatic pressure-dependent structural and transport properties of BiCuSeO and BiCuSO single crystals. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33, 105702	1.8	2
235	Terahertz Driven Reversible Topological Phase Transition of Monolayer Transition Metal Dichalcogenides. <i>Advanced Science</i> , <b>2021</b> , 8, e2003832	13.6	11

### (2021-2021)

234	Ultralow Lattice Thermal Conductivity of A0.5RhO2 (A = K, Rb, Cs) Induced by Interfacial Scattering and Resonant Scattering. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 11648-11655	3.8	2
233	Sulfophobic and Vacancy Design Enables Self-Cleaning Electrodes for Efficient Desulfurization and Concurrent Hydrogen Evolution with Low Energy Consumption. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101922	15.6	10
232	Light-induced static magnetization: Nonlinear Edelstein effect. Physical Review B, 2021, 103,	3.3	5
231	Pure bulk orbital and spin photocurrent in two-dimensional ferroelectric materials. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	12
230	Novel Two-Dimensional Janus MoSiGeN and WSiGeN as Highly Efficient Photocatalysts for Spontaneous Overall Water Splitting. <i>ACS Applied Materials &amp; District Action Spontaneous (Note: Action Spontaneous Overall Water Splitting)</i> . <i>ACS Applied Materials &amp; District Computation (Note: Action Spontaneous Overall Water Splitting)</i> .	9.5	18
229	Light-Induced Quantum Anomalous Hall Effect on the 2D Surfaces of 3D Topological Insulators. <i>Advanced Science</i> , <b>2021</b> , 8, e2101508	13.6	2
228	Growth, Structure, Electrical Transport and Thermal Stability of New Allotropic MoC4 Crystals. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 4909-4913	3.5	
227	Mo2B2 MBene-supported single-atom catalysts as bifunctional HER/OER and OER/ORR electrocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 433-441	13	51
226	Pressure-mediated structural phase transitions and ultrawide indirectdirect bandgaps in novel rare-earth oxyhalides. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 547-554	7.1	4
225	MXenes: promising donor and acceptor materials for high-efficiency heterostructure solar cells. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 135-143	5.8	15
224	Novel IVIVII semiconductors with ultralow lattice thermal conductivity. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 4189-4199	7.1	2
223	Novel metal oxides with promising high-temperature thermoelectric performance. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 12884-12894	7.1	1
222	Layer number dependent ferroelasticity in 2D Ruddlesden-Popper organic-inorganic hybrid perovskites. <i>Nature Communications</i> , <b>2021</b> , 12, 1332	17.4	10
221	Subtle effect of doping on the charge density wave in TaTe2I[\( \overline{\pmathbb{H}} 0.028\) 0.123) crystals revealed by anisotropic transport measurements and Raman spectroscopy. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	2
220	Colossal switchable photocurrents in topological Janus transition metal dichalcogenides. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	8
219	Rewritable High-Mobility Electrons in Oxide Heterostructure of Layered Perovskite/Perovskite. <i>ACS Applied Materials &amp; Distriction (Communication)</i> 13, 7812-7821	9.5	2
218	Epitaxial growth and transport properties of compressively-strained Ba2IrO4 films*. <i>Chinese Physics B</i> , <b>2021</b> , 30, 087401	1.2	1
217	Pure spin photocurrent in non-centrosymmetric crystals: bulk spin photovoltaic effect. <i>Nature Communications</i> , <b>2021</b> , 12, 4330	17.4	12

216	Uranium In Situ Electrolytic Deposition with a Reusable Functional Graphene-Foam Electrode. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102633	24	10
215	Antibonding-Induced Anomalous Temperature Dependence of the Band Gap in Crystalline Ge2Sb2Te5. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 19537-19543	3.8	2
214	Thermal property and lattice thermal conductivity of three-dimensional pentagonal silicon. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 618, 413178	2.8	1
213	Terahertz optics-driven phase transition in two-dimensional multiferroics. <i>Npj 2D Materials and Applications</i> , <b>2021</b> , 5,	8.8	8
212	Computational mining of Janus Sc2C-based MXenes for spintronic, photocatalytic, and solar cell applications. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 10882-10892	13	14
211	An electronic phase diagram of hole-doped BiCuSeO crystals determined by transport characterization under various growth conditions. <i>CrystEngComm</i> , <b>2021</b> , 23, 273-281	3.3	2
<b>21</b> 0	Mottness collapse in monolayer 1T-TaSe2 with persisting charge density wave order. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 9742-9747	7.1	7
209	MnO nanoflowers grown on a polypropylene separator for use as both a barrier and an accelerator of polysulfides for high-performance Li-S batteries. <i>Dalton Transactions</i> , <b>2020</b> , 49, 9719-9727	4.3	6
208	First-principles calculations of structural and electronic properties of layered AxRhO2 (A = Li, Na, K, Rb, Cs). <i>AIP Advances</i> , <b>2020</b> , 10, 035320	1.5	2
207	Modulating electrical transport properties of SnSe crystal to improve the thermoelectric power factor by adjusting growth method. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 092103	3.4	3
206	Toggling Valley-Spin Locking and Nonlinear Optical Properties of Single-Element Multiferroic Monolayers via Light. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	6
205	Anomalous transport and magnetic properties induced by slight Cu valence alternation in layered oxytelluride BiCuTeO <i>RSC Advances</i> , <b>2020</b> , 10, 18753-18759	3.7	O
204	Solution-Grown Hypervalent CsI3 Crystal for High-Sensitive X-Ray Detection. <i>Physica Status Solidi</i> (B): Basic Research, <b>2020</b> , 257, 2070012	1.3	1
203	Defect proliferation in CsPbBr3 crystal induced by ion migration. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 063	5 <u>9.</u> 5	30
202	Normal-to-topological insulator martensitic phase transition in group-IV monochalcogenides driven by light. <i>NPG Asia Materials</i> , <b>2020</b> , 12,	10.3	9
201	Exchange-biased nanocomposite ferromagnetic insulator. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	4
200	Engineering of octahedral rotations and electronic structure in ultrathin SrIrO3 films. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	9
199	Synergy effect of co-doping Sc and Y in Sb2Te3 for phase-change memory. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 6672-6679	7.1	16

#### (2020-2020)

198	Synthesis, structure, and electronic properties of the LiRbGdTeO single crystal <i>RSC Advances</i> , <b>2020</b> , 10, 11450-11454	3.7	
197	Sub-Angstrom Characterization of the Structural Origin for High In-Plane Anisotropy in 2D GeS. <i>ACS Nano</i> , <b>2020</b> , 14, 4456-4462	16.7	13
196	Novel 2D Transition-Metal Carbides: Ultrahigh Performance Electrocatalysts for Overall Water Splitting and Oxygen Reduction. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000570	15.6	78
195	Noncontacting optostriction driven anisotropic and inhomogeneous strain in two-dimensional materials. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	5
194	An efficient polysulfide trapper of an nitrogen and nickel-decorating amylum scaffold-coated separator for ultrahigh performance in lithiumBulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1238-1246	13	16
193	MXene and MXene-based composites: synthesis, properties and environment-related applications. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 235-258	10.8	240
192	Quantifying the composition dependency of the ground-state structure, electronic property and phase-transition dynamics in ternary transition-metal-dichalcogenide monolayers. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 721-733	7.1	4
191	One-Order Decrease of Thermal Conductivity in Nanostructured ZrTe5 and HfTe5 Crystals. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 680-687	3.5	3
190	High-Performance X-ray Detection Based on One-Dimensional Inorganic Halide Perovskite CsPbI. Journal of Physical Chemistry Letters, <b>2020</b> , 11, 432-437	6.4	47
189	Two-dimensional molybdenum carbides: active electrocatalysts for the nitrogen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 23947-23954	13	15
188	Tunable charge density wave in a lateral black/blue phosphorene heterostructure: A first-principles calculation. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
187	Spring-roll-like Ti3C2 MXene/carbon-coated Fe3O4 composite as a long-life Li-ion storage material. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 3491-3499	6.8	11
186	Giant Photonic Response of Mexican-Hat Topological Semiconductors for Mid-infrared to Terahertz Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 6119-6126	6.4	7
185	2D Transition-Metal Carbides: Novel 2D Transition-Metal Carbides: Ultrahigh Performance Electrocatalysts for Overall Water Splitting and Oxygen Reduction (Adv. Funct. Mater. 47/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070311	15.6	2
184	Tailoring geometric phases of two-dimensional functional materials under light: a brief review. <i>International Journal of Smart and Nano Materials</i> , <b>2020</b> , 11, 191-206	3.6	1
183	Composition-Gradient-Mediated Semiconductor-Metal Transition in Ternary Transition-Metal-Dichalcogenide Bilayers. <i>ACS Applied Materials &amp; Dichalcogenide Semiconductor-Metal-Dichalcogenide Bilayers</i> . <i>ACS Applied Materials &amp; Dichalcogenide Semiconductor-Metal-Dichalcogenide Bilayers</i> . <i>ACS Applied Materials &amp; Dichalcogenide Semiconductor-Metal-Dichalcogenide Bilayers</i> . <i>ACS Applied Materials &amp; Dichalcogenide Bilayers</i> .	19.5	5
182	Solution-Grown Hypervalent CsI3 Crystal for High-Sensitive X-Ray Detection. <i>Physica Status Solidi</i> (B): Basic Research, <b>2020</b> , 257, 1900290	1.3	1
181	Intercalation induced ferromagnetism in group-V transition metal dichalcogenide bilayer. <i>AIP Advances</i> , <b>2020</b> , 10, 045323	1.5	4

180	Contacting MoS2 to MXene: Vanishing p-Type Schottky Barrier and Enhanced Hydrogen Evolution Catalysis. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 3719-3726	3.8	29
179	Multi-loop node line states in ternary MgSrSi-type crystals. <i>Npj Computational Materials</i> , <b>2019</b> , 5,	10.9	7
178	Low lattice thermal conductivity and high thermoelectric figure of merit in Na2MgSn. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	6
177	Infrared and Raman spectra of BiOX and BiOX (XI S, Se, and Te) studied from first principles calculations <i>RSC Advances</i> , <b>2019</b> , 9, 18042-18049	3.7	14
176	Electron-electron scattering dominated electrical and magnetotransport properties in the quasi-two-dimensional Fermi liquid single-crystal Bi2O2Se. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	11
175	Abnormally Strong Electron-Phonon Scattering Induced Unprecedented Reduction in Lattice Thermal Conductivity of Two-Dimensional NbC. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 85	503 <sup>-</sup> 850	)8 <sup>28</sup>
174	MoS2/Ti2CT2 (T = F, O) Heterostructures as Promising Flexible Anodes for Lithium/Sodium Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 11493-11499	3.8	34
173	Novel two-dimensional molybdenum carbides as high capacity anodes for lithium/sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12145-12153	13	56
172	Hydrogenated C60 as High-Capacity Stable Anode Materials for Li Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6453-6460	6.1	14
171	Optomechanical control of stacking patterns of h-BN bilayer. <i>Nano Research</i> , <b>2019</b> , 12, 2634-2639	10	15
170	Comparisons of electrical/magneto-transport properties of degenerate semiconductors BiCuXO (X = S, Se and Te) and their electron-phonon-interaction evolution. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 055108	2.5	6
169	Ultra-High-Temperature Ferromagnetism in Intrinsic Tetrahedral Semiconductors. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 12413-12418	16.4	20
168	Lattice Dynamic and Instability in Pentasilicene: A Light Single-Element Ferroelectric Material With High Curie Temperature. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	14
167	2D Magnetic Janus Semiconductors with Exotic Structural and Quantum-Phase Transitions. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 3922-3928	6.4	14
166	Near-infrared optical properties and proposed phase-change usefulness of transition metal disulfides. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 161902	3.4	12
165	Ultralow cross-plane lattice thermal conductivity caused by BiD/BiD interfaces in natural superlattice-like single crystals. <i>CrystEngComm</i> , <b>2019</b> , 21, 6261-6268	3.3	2
164	Cu single atoms on Ti2CO2 as a highly efficient oxygen reduction catalyst in a proton exchange membrane fuel cell. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26062-26070	13	44
163	Theoretical and experimental evidence for the intrinsic three-dimensional Dirac state in Cu2HgSnSe4. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	1

### (2017-2019)

162	Modulation engineering of 2D MXene-based compounds for metal-ion batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 23092-23104	7.7	24
161	Enhanced Li-Ion-Storage Performance of MoS2 through Multistage Structural Design. <i>ChemElectroChem</i> , <b>2019</b> , 6, 1475-1484	4.3	9
160	Crystal growth and magneto-transport behavior of PdS1\(\textit{Dournal of Crystal Growth}\), <b>2018</b> , 487, 116-119	1.6	2
159	Effect of Coulomb Correlation on the Magnetic Properties of Mn Clusters. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 4350-4356	2.8	4
158	Preparation, Structure Evolution, and Metal-Insulator Transition of Na RhO Crystals (0.25 lk ll). <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 2730-2735	5.1	8
157	2D Intrinsic Ferromagnets from van der Waals Antiferromagnets. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 2417-2420	16.4	196
156	Reversible formation-dissociation of polaron in rutile driven by electric field. <i>Materials Research Letters</i> , <b>2018</b> , 6, 165-170	7.4	2
155	First-principles study of lattice thermal conductivity in ZrTe5 and HfTe5. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 175104	2.5	14
154	Shubnikovde Haas oscillations in bulk ZrTe5 single crystals: Evidence for a weak topological insulator. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	16
153	Simultaneous Detection and Removal of Formaldehyde at Room Temperature: Janus Au@ZnO@ZIF-8 Nanoparticles. <i>Nano-Micro Letters</i> , <b>2018</b> , 10, 4	19.5	55
152	Mobility-controlled extremely large magnetoresistance in perfect electron-hole compensated WP2 crystals. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	13
151	Tunable Resistance or Magnetoresistance Cusp and Extremely Large Magnetoresistance in Defect-Engineered HfTe5&ingle Crystals. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	12
150	Opto-Mechanics Driven Fast Martensitic Transition in Two-Dimensional Materials. <i>Nano Letters</i> , <b>2018</b> , 18, 7794-7800	11.5	25
149	Electrochemically-mediated selective capture of heavy metal chromium and arsenic oxyanions from water. <i>Nature Communications</i> , <b>2018</b> , 9, 4701	17.4	114
148	Experimental observation of conductive edge states in weak topological insulator candidate HfTe5. <i>APL Materials</i> , <b>2018</b> , 6, 121111	5.7	13
147	Three-dimensional topological acoustic crystals with pseudospin-valley coupled saddle surface states. <i>Nature Communications</i> , <b>2018</b> , 9, 4555	17.4	35
146	Atomically dispersed tungsten on metal halide monolayer as a ferromagnetic Chern insulator. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	5
145	Microstructure, growth mechanism and anisotropic resistivity of quasi-one-dimensional ZrTe5 crystal. <i>Journal of Crystal Growth</i> , <b>2017</b> , 457, 250-254	1.6	23

144	Spin-Glass-Like Behavior and Topological Hall Effect in SrRuO/SrIrO Superlattices for Oxide Spintronics Applications. <i>ACS Applied Materials &amp; English States</i> , 2017, 9, 3201-3207	9.5	45
143	Temperature effect on lattice and electronic structures of WTe2 from first-principles study. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 045104	2.5	10
142	Structural stability and thermoelectric property optimization of Ca2Si. RSC Advances, 2017, 7, 8936-894	<b>13</b> 3.7	9
141	Two-dimensional topological crystalline quantum spin Hall effect in transition metal intercalated compounds. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	8
140	Experimental Observation of Anisotropic Adler-Bell-Jackiw Anomaly in Type-II Weyl Semimetal WTe_{1.98} Crystals at the Quasiclassical Regime. <i>Physical Review Letters</i> , <b>2017</b> , 118, 096603	7.4	81
139	Transition between strong and weak topological insulator in ZrTe and HfTe. <i>Scientific Reports</i> , <b>2017</b> , 7, 45667	4.9	59
138	Computational mining of photocatalysts for water splitting hydrogen production: two-dimensional InSe-family monolayers. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2744-2752	5.5	94
137	Rational Design of Stable Dianions by Functionalizing Polycyclic Aromatic Hydrocarbons. <i>ChemPhysChem</i> , <b>2017</b> , 18, 1937-1942	3.2	3
136	Role of ligands in the stability of BX and CBX ( $n = 5-10$ ; $X = H$ , F, CN) and their potential as building blocks of electrolytes in lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 17937-179	43 <sup>3.6</sup>	17
135	Unexpected elastic isotropy in a black phosphorene/TiC2 van der Waals heterostructure with flexible Li-ion battery anode applications. <i>Nano Research</i> , <b>2017</b> , 10, 3136-3150	10	55
134	Composition and temperature-dependent phase transition in miscible MoWTe single crystals. <i>Scientific Reports</i> , <b>2017</b> , 7, 44587	4.9	41
133	Insight into the role of oxygen in the phase-change material GeTe. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 3592-3599	7.1	16
132	Quantum anomalous Hall effect in ferromagnetic transition metal halides. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	69
131	Strain-mediated type-I/type-II transition in MXene/Blue phosphorene van der Waals heterostructures for flexible optical/electronic devices. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 978-9	98 <del>4</del> .1	117
130	Anisotropic intrinsic lattice thermal conductivity of borophane from first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 2843-2849	3.6	31
129	Metastable Stacking-Polymorphism in GeSbTe. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 11990-11997	5.1	13
128	Molybdenum carbide on hierarchical porous carbon synthesized from Cu-MoO2 as efficient electrocatalysts for electrochemical hydrogen generation. <i>Nano Energy</i> , <b>2017</b> , 41, 749-757	17.1	88
127	New two-dimensional transition metal borides for Li ion batteries and electrocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 23530-23535	13	132

### (2017-2017)

126	The Microstructural Characterization of Multiferroic LaFeOEYMnOIMultilayers Grown on (001)-and (111)-SrTiOISubstrates by Transmission Electron Microscopy. <i>Materials</i> , <b>2017</b> , 10,	3.5	2
125	The relationship between anisotropic magnetoresistance and topology of Fermi surface in Td-MoTe2 crystal. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 045102	2.5	5
124	Titelbild: Colossal Stability of Gas-Phase Trianions: Super-Pnictogens (Angew. Chem. 43/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 13333-13333	3.6	
123	Colossal Stability of Gas-Phase Trianions: Super-Pnictogens. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 13606-136	19.6	6
122	Colossal Stability of Gas-Phase Trianions: Super-Pnictogens. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 13421-13425	16.4	15
121	Tunable Magnetism and Extraordinary Sunlight Absorbance in Indium Triphosphide Monolayer. Journal of the American Chemical Society, <b>2017</b> , 139, 11125-11131	16.4	187
120	Valley-Polarized Quantum Anomalous Hall Effect in Ferrimagnetic Honeycomb Lattices. <i>Physical Review Letters</i> , <b>2017</b> , 119, 046403	7.4	22
119	Ultra-low thermal conductivities along c-axis of naturally misfit layered Bi2[AE]2Co2Oy (AE = Ca, Ca0.5Sr0.5, Sr, Ba) single crystals. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 033902	3.4	7
118	Measurement of surface acoustic wave resonances in ferroelectric domains by microwave microscopy. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 074101	2.5	5
117	Origin of the abnormal diffusion of transition metal atoms in rutile. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	5
116	Pressure-Induced Destabilization and Anomalous Lattice Distortion in TcO. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 9973-9978	5.1	1
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