

Jian Zhou

List of Publications by Year in descending order

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267
papers

13,761
citations

38742

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all docs

270
docs citations

270
times ranked

15423
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-regulation strategy to enhance electrochemical catalysis ability of NiCo ₂ O _{4-x} for polysulfides conversion in Li-S batteries. Chemical Engineering Journal, 2022, 428, 131109.	12.7	35
2	Realization of adjustable electron concentration and its effect on electrical- and Seebeck-property of n-type SnSe crystals. Applied Physics Letters, 2022, 120, 022102.	3.3	2
3	Computational design of double transition metal MXenes with intrinsic magnetic properties. Nanoscale Horizons, 2022, 7, 276-287.	8.0	29
4	A multiferroic iron arsenide monolayer. Nanoscale Advances, 2022, 4, 1324-1329.	4.6	5
5	Enhanced photothermoelectric detection in Co:BiCuSeO crystals with tunable Seebeck effect. Optics Express, 2022, 30, 8356.	3.4	5
6	Screening transition metal-based polar pentagonal monolayers with large piezoelectricity and shift current. Npj Computational Materials, 2022, 8, .	8.7	13
7	Photo-magnetization in two-dimensional sliding ferroelectrics. Npj 2D Materials and Applications, 2022, 6, .	7.9	8
8	Enhanced Desalination Performance by a Novel Archimedes Spiral Flow Channel for Flow-Electrode Capacitive Deionization. ACS ES&T Engineering, 2022, 2, 1250-1259.	7.6	15
9	Magnetic Field Tuning of Magnetic- and Structure-Phase Transition in Mn ₂ V ₂ O ₇ Crystals. Journal of Physical Chemistry C, 2022, 126, 5055-5063.	3.1	1
10	Robust Design of High-Performance Optoelectronic Chalcogenide Crystals from High-Throughput Computation. Journal of the American Chemical Society, 2022, 144, 5878-5886.	13.7	21
11	Growth and Thermal Conductivity Study of CuCr ₂ Se ₄ -CuCrSe ₂ Hetero-Composite Crystals. Crystals, 2022, 12, 433.	2.2	1
12	Growth and Electrical Properties of Polymorphs of Mo-Te Crystals. Materials Research Bulletin, 2022, 151, 111796.	5.2	1
13	Materials Data toward Machine Learning: Advances and Challenges. Journal of Physical Chemistry Letters, 2022, 13, 3965-3977.	4.6	12
14	Anisotropic terahertz optostriction in group-IV monochalcogenide compounds. Physical Review B, 2022, 105, .	3.2	1
15	Tailoring Photoinduced Nonequilibrium Magnetizations in In ₂ Se ₃ Bilayers. Advanced Optical Materials, 2022, 10, .	7.3	5
16	Molecular dynamics and density functional theory study on the potassium distribution and lattice thermal conductivity of K RhO ₂ . Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 441, 128151.	2.1	0
17	MBenes: progress, challenges and future. Journal of Materials Chemistry A, 2022, 10, 15865-15880.	10.3	44
18	Switchable topological phase transition and nonlinear optical properties in a ReC_2H monolayer. Physical Review B, 2022, 105, .	8.22	1

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19	Mo ₂ B ₂ MBene-supported single-atom catalysts as bifunctional HER/OER and OER/ORR electrocatalysts. Journal of Materials Chemistry A, 2021, 9, 433-441.	10.3	175
20	Pressure-mediated structural phase transitions and ultrawide indirect→direct bandgaps in novel rare-earth oxyhalides. Journal of Materials Chemistry C, 2021, 9, 547-554.	5.5	9
21	MXenes: promising donor and acceptor materials for high-efficiency heterostructure solar cells. Sustainable Energy and Fuels, 2021, 5, 135-143.	4.9	32
22	Novel IV→V→VI semiconductors with ultralow lattice thermal conductivity. Journal of Materials Chemistry C, 2021, 9, 4189-4199.	5.5	14
23	Novel metal oxides with promising high-temperature thermoelectric performance. Journal of Materials Chemistry C, 2021, 9, 12884-12894.	5.5	14
24	Role of Anharmonic Interactions for Vibration Density of States in $\hat{\pm}$ -Cristobalite. Materials, 2021, 14, 617.	2.9	1
25	Layer number dependent ferroelasticity in 2D Ruddlesden→Popper organic-inorganic hybrid perovskites. Nature Communications, 2021, 12, 1332.	12.8	28
26	Subtle effect of doping on the charge density wave in $\langle \text{Ta} \rangle \langle \text{Te} \rangle$ ($T_{\text{ETQq000rgBT}} / \text{Overlock } 10 \text{ Tf } 50 \text{ 457 Td}$)	3.2	2
27	Colossal switchable photocurrents in topological Janus transition metal dichalcogenides. Npj Computational Materials, 2021, 7, .	8.7	27
28	Rewritable High-Mobility Electrons in Oxide Heterostructure of Layered Perovskite/Perovskite. ACS Applied Materials & Interfaces, 2021, 13, 7812-7821.	8.0	6
29	Terahertz Driven Reversible Topological Phase Transition of Monolayer Transition Metal Dichalcogenides. Advanced Science, 2021, 8, e2003832.	11.2	25
30	Ultralow Lattice Thermal Conductivity of A _{0.5} RhO ₂ (A = K, Rb, Cs) Induced by Interfacial Scattering and Resonant Scattering. Journal of Physical Chemistry C, 2021, 125, 11648-11655.	3.1	2
31	Sulfophobic and Vacancy Design Enables Self→Cleaning Electrodes for Efficient Desulfurization and Concurrent Hydrogen Evolution with Low Energy Consumption. Advanced Functional Materials, 2021, 31, 2101922.	14.9	34
32	Light-induced static magnetization: Nonlinear Edelstein effect. Physical Review B, 2021, 103, .	3.2	11
33	Pure bulk orbital and spin photocurrent in two-dimensional ferroelectric materials. Npj Computational Materials, 2021, 7, .	8.7	34
34	Novel Two-Dimensional Janus MoSiGeN ₄ and WSiGeN ₄ as Highly Efficient Photocatalysts for Spontaneous Overall Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 28090-28097.	8.0	89
35	Light→Induced Quantum Anomalous Hall Effect on the 2D Surfaces of 3D Topological Insulators. Advanced Science, 2021, 8, e2101508.	11.2	11
36	Growth, Structure, Electrical Transport and Thermal Stability of New Allotropic MoC ₄ Crystals. Crystal Growth and Design, 2021, 21, 4909-4913.	3.0	1

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37	Epitaxial growth and transport properties of compressively-strained Ba ₂ IrO ₄ films*. Chinese Physics B, 2021, 30, 087401.	1.4	2
38	Pure spin photocurrent in non-centrosymmetric crystals: bulk spin photovoltaic effect. Nature Communications, 2021, 12, 4330.	12.8	51
39	Atomic-resolution study of charge transfer effects at the LaTiO ₃ /La ₂ O ₃ interface. Physical Review B, 2021, 104, .	3.2	0
40	Uranium In Situ Electrolytic Deposition with a Reusable Functional Graphene@Foam Electrode. Advanced Materials, 2021, 33, e2102633.	21.0	52
41	Covalent states and spin-orbit coupling in electronic and magnetic properties of Ba ₆ Y ₂ Rh ₂ Ti ₂ O ₁₇ . Physical Review B, 2021, 104, .	3.2	0
42	Antibonding-Induced Anomalous Temperature Dependence of the Band Gap in Crystalline Ge ₂ Sb ₂ Te ₅ . Journal of Physical Chemistry C, 2021, 125, 19537-19543.	3.1	5
43	Thermal property and lattice thermal conductivity of three-dimensional pentagonal silicon. Physica B: Condensed Matter, 2021, 618, 413178.	2.7	4
44	Designing stable B ₁₂ dianions in silico for Li- and Mg-ion battery applications. Inorganic Chemistry Frontiers, 2021, 8, 5201-5208.	6.0	0
45	Terahertz optics-driven phase transition in two-dimensional multiferroics. Npj 2D Materials and Applications, 2021, 5, .	7.9	16
46	Synthesis of two-dimensional phenylethylamine tin-lead halide perovskites with bandgap bending behavior. Nanoscale Advances, 2021, 3, 3875-3880.	4.6	7
47	Computational mining of Janus Sc ₂ C-based MXenes for spintronic, photocatalytic, and solar cell applications. Journal of Materials Chemistry A, 2021, 9, 10882-10892.	10.3	52
48	An electronic phase diagram of hole-doped BiCuSeO crystals determined by transport characterization under various growth conditions. CrystEngComm, 2021, 23, 273-281.	2.6	5
49	Non-hydrostatic pressure-dependent structural and transport properties of BiCuSeO and BiCuSO single crystals. Journal of Physics Condensed Matter, 2021, 33, 105702.	1.8	3
50	Coherence control of directional nonlinear photocurrent in spatially symmetric systems. Physical Review B, 2021, 104, .	3.2	11
51	The electrical- and magneto-transport properties of Rb-, Sn-, and Co-doped BiCuSeO crystals. AIP Advances, 2021, 11, 105207.	1.3	2
52	High-harmonic generation in Weyl semimetal \hat{I}^2 -WP2 crystals. Nature Communications, 2021, 12, 6437.	12.8	40
53	First-principles study on the electronic and magnetic properties of ThMnAsN and ThMnPN. Modern Physics Letters B, 2021, 35, .	1.9	1
54	Solution-grown Hypervalent CsI ₃ Crystal for High-sensitive X-ray Detection. Physica Status Solidi (B): Basic Research, 2020, 257, 1900290.	1.5	3

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55	MXene and MXene-based composites: synthesis, properties and environment-related applications. <i>Nanoscale Horizons</i> , 2020, 5, 235-258.	8.0	588
56	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> , 2020, 8, 721-733.	5.5	7
57	One-Order Decrease of Thermal Conductivity in Nanostructured $ZrTe_5$ and $HfTe_5$ Crystals. <i>Crystal Growth and Design</i> , 2020, 20, 680-687.	3.0	6
58	High-Performance X-ray Detection Based on One-Dimensional Inorganic Halide Perovskite $CsPbI_3$. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 432-437.	4.6	83
59	Two-dimensional molybdenum carbides: active electrocatalysts for the nitrogen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23947-23954.	10.3	36
60	Tunable charge density wave in a lateral black/blue phosphorene heterostructure: A first-principles calculation. <i>Physical Review B</i> , 2020, 102, .	3.2	5
61	Spring-roll-like Ti_3C_2 MXene/carbon-coated Fe_3O_4 composite as a long-life Li-ion storage material. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3491-3499.	6.0	18
62	Giant Photonic Response of Mexican-Hat Topological Semiconductors for Mid-infrared to Terahertz Applications. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6119-6126.	4.6	18
63	2D Transition-Metal Carbides: Novel 2D Transition-Metal Carbides: Ultrahigh Performance Electrocatalysts for Overall Water Splitting and Oxygen Reduction (<i>Adv. Funct. Mater.</i> 47/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070311.	14.9	5
64	Tailoring geometric phases of two-dimensional functional materials under light: a brief review. <i>International Journal of Smart and Nano Materials</i> , 2020, 11, 191-206.	4.2	2
65	Composition-Gradient-Mediated Semiconductor-Metal Transition in Ternary Transition-Metal-Dichalcogenide Bilayers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45184-45191.	8.0	12
66	Mottness collapse in monolayer 1T-TaSe ₂ with persisting charge density wave order. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9742-9747.	5.5	18
67	MnO_2 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> , 2020, 49, 9719-9727.	3.3	9
68	First-principles calculations of structural and electronic properties of layered A_xRhO_2 ($A = Li, Na, K$). <i>Journal of Applied Physics</i> , 2020, 123, 104301.	1.3	4
69	Modulating electrical transport properties of SnSe crystal to improve the thermoelectric power factor by adjusting growth method. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	5
70	Toggling Valley-Spin Locking and Nonlinear Optical Properties of Single-Element Multiferroic Monolayers via Light. <i>Physical Review Applied</i> , 2020, 14, .	3.8	17
71	Anomalous transport and magnetic properties induced by slight Cu valence alternation in layered oxytelluride $BiCuTeO$. <i>RSC Advances</i> , 2020, 10, 18753-18759.	3.6	2
72	Solution-Grown Hypervalent CsI_3 Crystal for High-Sensitive X-Ray Detection. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 2070012.	1.5	1

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73	Defect proliferation in CsPbBr ₃ crystal induced by ion migration. Applied Physics Letters, 2020, 116, .	3.3	60
74	Normal-to-topological insulator martensitic phase transition in group-IV monochalcogenides driven by light. NPG Asia Materials, 2020, 12, .	7.9	18
75	Exchange-biased nanocomposite ferromagnetic insulator. Physical Review B, 2020, 101, .	3.2	6
76	Engineering of octahedral rotations and electronic structure in ultrathin SrIrO ₃ films. Physical Review B, 2020, 101, .	3.2	6
77	Synergy effect of co-doping Sc and Y in Sb ₂ Te ₃ for phase-change memory. Journal of Materials Chemistry C, 2020, 8, 6672-6679.	5.5	24
78	Synthesis, structure, and electronic properties of the Li ₁₁ RbGd ₄ Te ₆ O ₃₀ single crystal. RSC Advances, 2020, 10, 11450-11454.	3.6	0
79	Sub-Angstrom Characterization of the Structural Origin for High In-Plane Anisotropy in 2D GeS ₂ . ACS Nano, 2020, 14, 4456-4462.	14.6	25
80	Novel 2D Transition-Metal Carbides: Ultrahigh Performance Electrocatalysts for Overall Water Splitting and Oxygen Reduction. Advanced Functional Materials, 2020, 30, 2000570.	14.9	186
81	Intercalation induced ferromagnetism in group-V transition metal dichalcogenide bilayer. AIP Advances, 2020, 10, .	1.3	7
82	An efficient polysulfide trapper of an nitrogen and nickel-decorating amyllum scaffold-coated separator for ultrahigh performance in lithium-sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 1238-1246.	10.3	29
83	Noncontacting optostriction driven anisotropic and inhomogeneous strain in two-dimensional materials. Physical Review Research, 2020, 2, .	3.6	9
84	Hydrogenated C ₆₀ as High-Capacity Stable Anode Materials for Li Ion Batteries. ACS Applied Energy Materials, 2019, 2, 6453-6460.	5.1	19
85	Optomechanical control of stacking patterns of h-BN bilayer. Nano Research, 2019, 12, 2634-2639.	10.4	20
86	Comparisons of electrical/magneto-transport properties of degenerate semiconductors BiCuXO (X=O, S). TjEJQq0 0 0 rgBT /Ov	2.5	12
87	Ultra-High-Temperature Ferromagnetism in Intrinsic Tetrahedral Semiconductors. Journal of the American Chemical Society, 2019, 141, 12413-12418.	13.7	44
88	Lattice Dynamic and Instability in Pentasilicene: A Light Single-Element Ferroelectric Material With High Curie Temperature. Physical Review Applied, 2019, 11, .	3.8	24
89	2D Magnetic Janus Semiconductors with Exotic Structural and Quantum-Phase Transitions. Journal of Physical Chemistry Letters, 2019, 10, 3922-3928.	4.6	28
90	Near-infrared optical properties and proposed phase-change usefulness of transition metal disulfides. Applied Physics Letters, 2019, 115, .	3.3	19

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91	Contacting MoS ₂ to MXene: Vanishing p-Type Schottky Barrier and Enhanced Hydrogen Evolution Catalysis. Journal of Physical Chemistry C, 2019, 123, 3719-3726.	3.1	47
92	Multi-loop node line states in ternary MgSrSi-type crystals. Npj Computational Materials, 2019, 5, .	8.7	14
93	Low lattice thermal conductivity and high thermoelectric figure of merit in NaMn_2O_7 . Physical Review B, 2019, 99, .		
94	Infrared and Raman spectra of Bi ₂ O ₂ X and Bi ₂ O ₂ OX (X = S, Se, and Te) studied from first principles calculations. RSC Advances, 2019, 9, 18042-18049.	3.6	26
95	quasi-two-dimensional Fermi liquid single-crystal $\text{Bi}_2\text{O}_2\text{X}$. Physical Review B, 2019, 99, .	3.2	16
96	Abnormally Strong Electron-Phonon Scattering Induced Unprecedented Reduction in Lattice Thermal Conductivity of Two-Dimensional Nb ₂ C. Journal of the American Chemical Society, 2019, 141, 8503-8508.	13.7	51
97	MoS ₂ /Ti ₂ CT ₂ (T = F, O) Heterostructures as Promising Flexible Anodes for Lithium/Sodium Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 11493-11499.	3.1	62
98	Novel two-dimensional molybdenum carbides as high capacity anodes for lithium/sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 12145-12153.	10.3	106
99	Ultralow cross-plane lattice thermal conductivity caused by Bi ²⁺ /Bi ³⁺ interfaces in natural superlattice-like single crystals. CrystEngComm, 2019, 21, 6261-6268.	2.6	6
100	Cu single atoms on Ti ₂ CO ₂ as a highly efficient oxygen reduction catalyst in a proton exchange membrane fuel cell. Journal of Materials Chemistry A, 2019, 7, 26062-26070.	10.3	95
101	Theoretical and experimental evidence for the intrinsic three-dimensional Dirac state in Cu_2O . Physical Review B, 2019, 100, .	3.2	3
102	Modulation engineering of 2D MXene-based compounds for metal-ion batteries. Nanoscale, 2019, 11, 23092-23104.	5.6	36
103	Enhanced Li ⁺ Storage Performance of MoS ₂ through Multistage Structural Design. ChemElectroChem, 2019, 6, 1475-1484.	3.4	12
104	Crystal growth and magneto-transport behavior of PdS _{1-x} . Journal of Crystal Growth, 2018, 487, 116-119.	1.5	2
105	Effect of Coulomb Correlation on the Magnetic Properties of Mn Clusters. Journal of Physical Chemistry A, 2018, 122, 4350-4356.	2.5	4
106	Preparation, Structure Evolution, and Metal-Insulator Transition of Na _x RhO ₂ Crystals (0.25 ≤ x ≤ 1). Inorganic Chemistry, 2018, 57, 2730-2735.	4.0	9
107	2D Intrinsic Ferromagnets from van der Waals Antiferromagnets. Journal of the American Chemical Society, 2018, 140, 2417-2420.	13.7	312
108	Reversible formation-dissociation of polaron in rutile driven by electric field. Materials Research Letters, 2018, 6, 165-170.	8.7	3

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109	First-principles study of lattice thermal conductivity in ZrTe5 and HfTe5. Journal of Applied Physics, 2018, 123, .	2.5	19
110	Shubnikov-de Haas oscillations in bulk $ZrTe_5$ single crystals: Evidence for a weak topological insulator. Physical Review B, 2018, 97, .	3.2	22
111	Simultaneous Detection and Removal of Formaldehyde at Room Temperature: Janus Au@ZnO@ZIF-8 Nanoparticles. Nano-Micro Letters, 2018, 10, 4.	27.0	84
112	Opto-Mechanics Driven Fast Martensitic Transition in Two-Dimensional Materials. Nano Letters, 2018, 18, 7794-7800.	9.1	38
113	Electrochemically-mediated selective capture of heavy metal chromium and arsenic oxyanions from water. Nature Communications, 2018, 9, 4701.	12.8	193
114	Experimental observation of conductive edge states in weak topological insulator candidate HfTe5. APL Materials, 2018, 6, .	5.1	19
115	Three-dimensional topological acoustic crystals with pseudospin-valley coupled saddle surface states. Nature Communications, 2018, 9, 4555.	12.8	53
116	Atomically dispersed tungsten on metal halide monolayer as a ferromagnetic Chern insulator. Physical Review B, 2018, 98, .	3.2	5
117	Wavelength-controlled extremely large magnetoresistance in perfect electron-hole compensated WTe_2 single crystals. Physical Review Applied, 2018, 9, .	3.2	22
118	Tunable Resistance or Magnetoresistance Cusp and Extremely Large Magnetoresistance in Defect-Engineered $HfTe_5$ Single Crystals. Physical Review Applied, 2018, 9, .	3.8	15
119	Microstructure, growth mechanism and anisotropic resistivity of quasi-one-dimensional ZrTe5 crystal. Journal of Crystal Growth, 2017, 457, 250-254.	1.5	24
120	Spin-Glass-Like Behavior and Topological Hall Effect in $SrRuO_3/SrIrO_3$ Superlattices for Oxide Spintronics Applications. ACS Applied Materials & Interfaces, 2017, 9, 3201-3207.	8.0	64
121	Temperature effect on lattice and electronic structures of WTe_2 from first-principles study. Journal of Applied Physics, 2017, 121, .	2.5	11
122	Structural stability and thermoelectric property optimization of Ca_2Si . RSC Advances, 2017, 7, 8936-8943.	3.6	15
123	Two-dimensional topological crystalline quantum spin Hall effect in transition metal intercalated compounds. Physical Review B, 2017, 95, .	3.2	10
124	Experimental Observation of Anisotropic Adler-Bell-Jackiw Anomaly in Type-II Weyl Semimetal Crystals at the Quasiclassical Regime. Physical Review Letters, 2017, 118, 096603.	7.8	114
125	Transition between strong and weak topological insulator in ZrTe5 and HfTe5. Scientific Reports, 2017, 7, 45667.	3.3	77
126	Computational mining of photocatalysts for water splitting hydrogen production: two-dimensional InSe-family monolayers. Catalysis Science and Technology, 2017, 7, 2744-2752.	4.1	123

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127	Rational Design of Stable Dianions by Functionalizing Polycyclic Aromatic Hydrocarbons. <i>ChemPhysChem</i> , 2017, 18, 1937-1942.	2.1	3
128	Role of ligands in the stability of B_nX_n and CB_nX_n ($n = 5-10$; $X = H, F, CN$) and their potential as building blocks of electrolytes in lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17937-17943.	2.8	24
129	Unexpected elastic isotropy in a black phosphorene/TiC ₂ van der Waals heterostructure with flexible Li-ion battery anode applications. <i>Nano Research</i> , 2017, 10, 3136-3150.	10.4	67
130	Composition and temperature-dependent phase transition in miscible $Mo_{1-x}W_xTe_2$ single crystals. <i>Scientific Reports</i> , 2017, 7, 44587.	3.3	58
131	Insight into the role of oxygen in the phase-change material GeTe. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3592-3599.	5.5	18
132	Quantum anomalous Hall effect in ferromagnetic transition metal halides. <i>Physical Review B</i> , 2017, 95,	3.2	110
133	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> , 2017, 5, 978-984.	5.5	155
134	Anisotropic intrinsic lattice thermal conductivity of borophane from first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2843-2849.	2.8	40
135	Metastable Stacking-Polymorphism in $Ge_2Sb_2Te_5$. <i>Inorganic Chemistry</i> , 2017, 56, 11990-11997.	4.0	16
136	Molybdenum carbide on hierarchical porous carbon synthesized from Cu-MoO ₂ as efficient electrocatalysts for electrochemical hydrogen generation. <i>Nano Energy</i> , 2017, 41, 749-757.	16.0	103
137	New two-dimensional transition metal borides for Li ion batteries and electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23530-23535.	10.3	253
138	The relationship between anisotropic magnetoresistance and topology of Fermi surface in Td-MoTe ₂ crystal. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	7
139	Titelbild: Colossal Stability of Gas-Phase Trianions: Superpnictogens (<i>Angew. Chem.</i> 43/2017). <i>Angewandte Chemie</i> , 2017, 129, 13333-13333.	2.0	0
140	Colossal Stability of Gas-Phase Trianions: Superpnictogens. <i>Angewandte Chemie</i> , 2017, 129, 13606-13610.	2.0	6
141	Colossal Stability of Gas-Phase Trianions: Superpnictogens. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13421-13425.	13.8	23
142	Tunable Magnetism and Extraordinary Sunlight Absorbance in Indium Triphosphide Monolayer. <i>Journal of the American Chemical Society</i> , 2017, 139, 11125-11131.	13.7	265
143	Valley-Polarized Quantum Anomalous Hall Effect in Ferrimagnetic Honeycomb Lattices. <i>Physical Review Letters</i> , 2017, 119, 046403.	7.8	64
144	Ultra-low thermal conductivities along c -axis of naturally misfit layered $Bi_2[AE]_2Co_2O_y$ ($AE = Tl, Pb, Bi, Sb, As, Sn, Te, Se, S$). <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17937-17943.	3.3	12

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145	Measurement of surface acoustic wave resonances in ferroelectric domains by microwave microscopy. <i>Journal of Applied Physics</i> , 2017, 122, 074101.	2.5	7
146	Origin of the abnormal diffusion of transition metal atoms in rutile. <i>Physical Review B</i> , 2017, 95, .	3.2	5
147	Pressure-Induced Destabilization and Anomalous Lattice Distortion in TcO ₂ . <i>Inorganic Chemistry</i> , 2017, 56, 9973-9978.	4.0	1
148	Topological insulators double perovskites: A ₂ TePoO ₆ (A = Ca, Sr, Ba). <i>Journal of Applied Physics</i> , 2017, 122, 224902.	2.5	4
149	Ultrathin N-Doped Mo ₂ C Nanosheets with Exposed Active Sites as Efficient Electrocatalyst for Hydrogen Evolution Reactions. <i>ACS Nano</i> , 2017, 11, 12509-12518.	14.6	350
150	Reduction of thermal conductivity in Y _x Sb _{2-x} Te ₃ for phase change memory. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	21
151	Effect of Substrate symmetry on the dendrite morphology of MoS ₂ Film synthesized by CVD. <i>Scientific Reports</i> , 2017, 7, 15166.	3.3	24
152	Interaction-driven quantum anomalous Hall effect in halogenated hematite nanosheets. <i>Physical Review B</i> , 2017, 96, .	3.2	13
153	Giant Valley Splitting and Valley Polarized Plasmonics in Group V Transition-Metal Dichalcogenide Monolayers. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5764-5770.	4.6	19
154	Giant positive magnetoresistance in half-metallic double-perovskite Sr ₂ CrWO ₆ thin films. <i>Science Advances</i> , 2017, 3, e1701473.	10.3	52
155	Vanishing Schottky Barriers in Blue Phosphorene/MXene Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25164-25171.	3.1	60
156	The Microstructural Characterization of Multiferroic LaFeO ₃ -YMnO ₃ Multilayers Grown on (001)- and (111)-SrTiO ₃ Substrates by Transmission Electron Microscopy. <i>Materials</i> , 2017, 10, 839.	2.9	3
157	Substituent-Stabilized Organic Dianions in the Gas Phase and Their Potential Use as Electrolytes in Lithium-Ion Batteries. <i>ChemPhysChem</i> , 2016, 17, 2992-2997.	2.1	4
158	Logic Control of Interface-Induced Charge-Trapping Effect for Ultrasensitive Gas Detection with All-Mirror-Image Symmetry. <i>Advanced Materials Technologies</i> , 2016, 1, 1600067.	5.8	10
159	Stability of B ₁₂ (CN) ₁₂ ²⁺ : Implications for Lithium and Magnesium Ion Batteries. <i>Angewandte Chemie</i> , 2016, 128, 3768-3772.	2.0	28
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