

# Zhen-Xiang Cheng

## List of Publications by Year in descending order

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350  
papers

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34016

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354  
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docs citations

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times ranked

11369  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in Ni-Fe (Oxy)hydroxide electrocatalysts for the oxygen evolution reaction in alkaline electrolyte targeting industrial applications. <i>Nano Select</i> , 2022, 3, 766-791.	1.9	16
2	Photoresponse of high quality epitaxial BiFeO <sub>3</sub> films grown through hydrothermal method and rapid microwave assisted method. <i>Ceramics International</i> , 2022, 48, 7778-7783.	2.3	2
3	Room temperature intrinsic diluted magnetic semiconductor Li(Cd,Mn)As. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3217-3223.	2.7	4
4	Maximizing phonon scattering efficiency by Cu <sub>2</sub> Se alloying in AgCuTe thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6701-6712.	5.2	17
5	In situ generation of flower-like and microspherical dendrites to improve thermoelectric properties of p-type Bi <sub>0.46</sub> Sb <sub>1.54</sub> Te <sub>3</sub> . <i>Materials Today Physics</i> , 2022, 23, 100633.	2.9	2
6	Observation of Short-Period Helical Spin Order and Magnetic Transition in a Nonchiral Centrosymmetric Helimagnet. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	4
7	Synergetic degradation of organic dyes and Cr(VI) by the piezocatalytic BZT-xBCT. <i>New Journal of Chemistry</i> , 2022, 46, 9184-9194.	1.4	6
8	Magnetic Field Tuning of Magnetic- and Structure-Phase Transition in Mn <sub>2</sub> V <sub>2</sub> O <sub>7</sub> Crystals. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5055-5063.	1.5	1
9	Epitaxial growth of an atom-thin layer on a LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode for stable Li-ion battery cycling. <i>Nature Communications</i> , 2022, 13, 1565.	5.8	32
10	Magnonic Metamaterials for Spin-Wave Control with Inhomogeneous Dzyaloshinskii-Moriya Interactions. <i>Nanomaterials</i> , 2022, 12, 1159.	1.9	3
11	NaNbO <sub>3</sub> modified BiScO <sub>3</sub> -BaTiO <sub>3</sub> dielectrics for high-temperature energy storage applications. <i>Journal of Materiomics</i> , 2022, 8, 731-738.	2.8	10
12	Nodal ring spin gapless semiconductor: New member of spintronic materials. <i>Journal of Advanced Research</i> , 2021, 28, 43-49.	4.4	23
13	Highly Stretchable Self-Powered Wearable Electrical Energy Generator and Sensors. <i>Advanced Materials Technologies</i> , 2021, 6, 2000841.	3.0	48
14	Chemical Solution Route for High-Quality Multiferroic BiFeO <sub>3</sub> Thin Films. <i>Small</i> , 2021, 17, e1903663.	5.2	38
15	Bi(Mg <sub>0.5</sub> Hf <sub>0.5</sub> )O <sub>3</sub> -modified SrTiO <sub>3</sub> lead-free ceramics for high-temperature energy storage capacitors. <i>Journal of Materials Research</i> , 2021, 36, 1171-1181.	1.2	11
16	Theranostic two-dimensional superparamagnetic maghemite quantum structures for ROS-mediated cancer therapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5805-5817.	2.9	3
17	Ni(NCS) <sub>2</sub> monolayer: a robust bipolar magnetic semiconductor. <i>Nanoscale</i> , 2021, 13, 16564-16570.	2.8	51
18	Nonvolatile magnetoelectric coupling in two-dimensional ferromagnetic-bilayer/ferroelectric van der Waals heterostructures. <i>Nanoscale</i> , 2021, 13, 14214-14220.	2.8	7

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19	Magnetization reversal on different time-scales for $\text{ErFeO}_3$ and $\text{NdFeO}_3$ single crystals. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5415-5421.	1.3	7
20	Insights into the phenomenon of "bubble-free" electrocatalytic oxygen evolution from water. <i>Sustainable Energy and Fuels</i> , 2021, 5, 808-819.	2.5	13
21	Magnetic hybrid organic-inorganic perovskite $(\text{CH}_3\text{NH}_3)_2\text{XCl}_4$ (X = Mn, Cu, Co) crystals. <i>CrystEngComm</i> , 2021, 23, 5208-5213.	1.3	13
22	Strong tribocatalytic dye degradation by tungsten bronze $\text{Ba}_4\text{Nd}_2\text{Fe}_2\text{Nb}_8\text{O}_{30}$ . <i>Ceramics International</i> , 2021, 47, 5038-5043.	2.3	31
23	Enhanced energy density and electric cycling reliability via $\text{MnO}_2$ modification in sodium niobate-based relaxor dielectric capacitors. <i>Journal of Materials Research</i> , 2021, 36, 1214-1222.	1.2	19
24	The mechanism for the enhanced piezoelectricity in multi-elements doped (K,Na) $\text{NbO}_3$ ceramics. <i>Nature Communications</i> , 2021, 12, 881.	5.8	82
25	Tunable magnetism in ferroelectric $\text{In}_2\text{Se}_3$ by hole-doping. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	25
26	Hydrogen Generation and Degradation of Organic Dyes by New Piezocatalytic $0.7\text{BiFeO}_3$ - $0.3\text{BaTiO}_3$ Nanoparticles with Proper Band Alignment. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 11050-11057.	4.0	48
27	Enhanced Energy Storage Properties and Good Temperature Stability in $0.92(\text{Sr}_{0.7}\text{Bi}_{0.2})\text{TiO}_3$ - $0.08\text{Bi}(\text{Mg}_{0.5}\text{Hf}_{0.5})\text{O}_3$ Relaxor Ferroelectric Ceramic. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100015.	1.1	20
28	Skyrmion battery effect via inhomogeneous magnetic anisotropy. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	6
29	Perovskite-type $\text{BYRhMn}_3$ with multiple types of nodal point and nodal line states. <i>Physical Review B</i> , 2021, 103, .	1.1	20
30	Intersecting topological nodal ring and nodal wall states in superhard superconductor $\text{FeB}_4$ . <i>Physical Review Materials</i> , 2021, 5, .	0.9	1
31	Resistive Switching Effect of Multiferroic Complex Oxide Solid Solution Thin Films. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3278-3286.	2.0	1
32	Revealing the Correlation of OER with Magnetism: A New Descriptor of Curie/Neel Temperature for Magnetic Electrocatalysts. <i>Advanced Science</i> , 2021, 8, e2101000.	5.6	14
33	Vacancy-defect modulated pathway of photoreduction of $\text{CO}_2$ on single atomically thin $\text{AgInP}_2\text{S}_6$ sheets into olefiant gas. <i>Nature Communications</i> , 2021, 12, 4747.	5.8	128
34	Manipulation of Magnetic Skyrmion in a 2D van der Waals Heterostructure via Both Electric and Magnetic Fields. <i>Advanced Functional Materials</i> , 2021, 31, 2104452.	7.8	40
35	Interaction of graphene, $\text{MnO}$ , and $\text{Ca}^{2+}$ for enhanced biomimetic, "bubble-free" oxygen evolution reaction at mild pH. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 28397-28405.	3.8	1
36	Plateau-like magnetocaloric effect in layered intermetallic compounds activated by tripled magnetic cell. <i>Materials Today Physics</i> , 2021, 21, 100501.	2.9	2

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37	Time-reversal-breaking Weyl nodal lines in two-dimensional $A_3C_2$ ( $A = \text{Ti, Zr}$ ). <i>TJ ETQq</i> 1 0.784314 rgBT /Over 8235-8241.	2.8	20
38	Tribocatalytic degradation of dyes by tungsten bronze ferroelectric $\text{Ba}_{2.5}\text{Sr}_{2.5}\text{Nb}_8\text{Ta}_2\text{O}_{30}$ submicron particles. <i>RSC Advances</i> , 2021, 11, 13386-13395.	1.7	25
39	Enhanced energy density and electric cycling reliability via $\text{MnO}_2$ modification in sodium niobate-based relaxor dielectric capacitors. <i>Journal of Materials Research</i> , 2021, 36, 1-9.	1.2	1
40	Induced Superconducting Transition in Ultra-Thin Iron-Selenide Films by a Mg-Coating Process. <i>Materials</i> , 2021, 14, 6383.	1.3	1
41	Coherent spin rotation-induced zero thermal expansion in $\text{MnCoSi}$ -based spiral magnets. <i>NPG Asia Materials</i> , 2021, 13, .	3.8	9
42	Optimization of Ferroelectric Ordering and Thermal Stability in $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$ -Based Lead-Free Single Crystal through Defect Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 60995-61003.	4.0	16
43	Mechanically tuning magnetism and transport property in spin gapless semiconductor $\text{CoFeMnSi}$ flexible thin film. <i>Journal of Alloys and Compounds</i> , 2020, 813, 152207.	2.8	9
44	$\text{Bi}$ -modified $\text{SrTiO}_3$ -based ceramics for high-temperature energy storage applications. <i>Journal of the American Ceramic Society</i> , 2020, 103, 1722-1731.	1.9	105
45	Core-shell nanostructures introduce multiple potential barriers to enhance energy filtering for the improvement of the thermoelectric properties of $\text{SnTe}$ . <i>Nanoscale</i> , 2020, 12, 1904-1911.	2.8	43
46	Quantifying the nucleation effect of correlated matrix grains in sintered $\text{Nd-Fe-B}$ permanent magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166099.	1.0	6
47	Ultrahigh Energy Storage Properties in $(\text{Sr}_{0.7}\text{Bi}_{0.2})\text{TiO}_3\text{-Bi}(\text{Mg}_{0.5}\text{Zr}_{0.5})\text{O}_3$ Lead-Free Ceramics and Potential for High-Temperature Capacitors. <i>Materials</i> , 2020, 13, 180.	1.3	38
48	Novel topological nodal lines and exotic drum-head-like surface states in synthesized $\text{CsCl}$ -type binary alloy $\text{TiOs}$ . <i>Journal of Advanced Research</i> , 2020, 22, 137-144.	4.4	44
49	Spin-gapless semiconductors for future spintronics and electronics. <i>Physics Reports</i> , 2020, 888, 1-57.	10.3	64
50	Accelerating hydrogen evolution in Ru-doped $\text{FeCoP}$ nanoarrays with lattice distortion toward highly efficient overall water splitting. <i>Catalysis Science and Technology</i> , 2020, 10, 8314-8324.	2.1	24
51	High Oxygen Evolution Activity of Tungsten Bronze Oxides Boosted by Anchoring of $\text{Co}^{2+}$ at $\text{Nb}^{5+}$ Sites Accompanied by Substantial Oxygen Vacancy. <i>Advanced Science</i> , 2020, 7, 2002242.	5.6	18
52	Magnetic Modulation of Terahertz Waves via Spin-Polarized Electron Tunneling Based on Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , 2020, 14, .	1.5	12
53	Origin of large electric-field-induced strain in pseudo-cubic $\text{BiFeO}_3$ - $\text{BaTiO}_3$ ceramics. <i>Acta Materialia</i> , 2020, 197, 1-9.	3.8	93
54	Controlling bimerons as skyrmion analogues by ferroelectric polarization in 2D van der Waals multiferroic heterostructures. <i>Nature Communications</i> , 2020, 11, 5930.	5.8	90

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55	High sensitivity face shear magneto-electric composite array for weak magnetic field sensing. Journal of Applied Physics, 2020, 128, .	1.1	5
56	Unique topological nodal line states and associated exceptional thermoelectric power factor platform in Nb <sub>3</sub> GeTe <sub>6</sub> monolayer and bulk. Nanoscale, 2020, 12, 16910-16916.	2.8	22
57	(Ba,Sr)TiO <sub>3</sub> –Bi(Mg,Hf)O <sub>3</sub> Lead-Free Ceramic Capacitors with High Energy Density and Energy Efficiency. ACS Applied Energy Materials, 2020, 3, 12254-12262.	2.5	25
58	Temperature dependent terahertz giant anisotropy and cycloidal spin wave modes in BiFeO <sub>3</sub> single crystal. Chinese Physics B, 2020, 29, 077804.	0.7	1
59	Graphitic carbon nitride with thermally-induced nitrogen defects: an efficient process to enhance photocatalytic H <sub>2</sub> production performance. RSC Advances, 2020, 10, 18632-18638.	1.7	18
60	Ferroelectrically tunable magnetism in BiFeO <sub>3</sub> /BaTiO <sub>3</sub> heterostructure revealed by the first-principles calculations. Journal of Advanced Research, 2020, 24, 371-377.	4.4	7
61	Diverse topological states in a ternary NdAsPd compound. Journal of Materials Chemistry C, 2020, 8, 7741-7748.	2.7	13
62	Solid-state crystal growth of lead-free ferroelectrics. Journal of Materials Chemistry C, 2020, 8, 7606-7649.	2.7	27
63	Graphene inclusion induced ultralow thermal conductivity and improved figure of merit in <i>pn</i> -type SnSe. Nanoscale, 2020, 12, 12760-12766.	2.8	16
64	Flexible hybrid piezo/triboelectric energy harvester with high power density workable at elevated temperatures. Journal of Materials Chemistry A, 2020, 8, 12003-12012.	5.2	42
65	Strain tuning of closed topological nodal lines and opposite pockets in quasi-two-dimensional $\hat{\Gamma}_{\pm}$ -phase FeSi <sub>2</sub> . Physical Chemistry Chemical Physics, 2020, 22, 13650-13658.	1.3	16
66	Stabilization of Skyrmions in a Nanodisk Without an External Magnetic Field. Physical Review Applied, 2020, 13, .	1.5	8
67	Non-zero spontaneous magnetic moment along crystalline <i>b</i> -axis for rare earth orthoferrites. Journal of Applied Physics, 2020, 127, .	1.1	9
68	Intersecting nodal rings in orthorhombic-type BaLi <sub>2</sub> Sn compound. Journal of Materials Chemistry C, 2020, 8, 5461-5466.	2.7	16
69	Piezofibers to smart textiles: a review on recent advances and future outlook for wearable technology. Journal of Materials Chemistry A, 2020, 8, 9496-9522.	5.2	102
70	Enhanced magnetic performance of BiFeO <sub>3</sub> by cerium substitution. Ceramics International, 2020, 46, 26205-26209.	2.3	3
71	van der Waals force layered multiferroic hybrid perovskite (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> CuCl <sub>4</sub> single crystals. Physical Chemistry Chemical Physics, 2020, 22, 4235-4239.	1.3	19
72	Rich novel zero-dimensional (0D), 1D, and 2D topological elements predicted in the P63/m type ternary boride HfIr <sub>3</sub> B <sub>4</sub> . Nanoscale, 2020, 12, 8314-8319.	2.8	21

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73	Wearable Electronic Textiles from Nanostructured Piezoelectric Fibers. <i>Advanced Materials Technologies</i> , 2020, 5, 1900900.	3.0	107
74	Coexistence of parabolic and linear band crossings and electron-doped spin-gapless properties in rhombohedral type YbBO <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2020, 823, 153835.	2.8	7
75	Multiferroic behavior from synergetic response of multiple ordering parameters in BiFeO <sub>3</sub> single crystal under high magnetic field up to 50 Tesla. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	10
76	Rich topological nodal line bulk states together with drum-head-like surface states in NaAlGe with anti-PbFCl type structure. <i>Journal of Advanced Research</i> , 2020, 23, 95-100.	4.4	39
77	Magnetic-field-free terahertz emission from a magnetic tunneling junction. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 090913.	0.8	10
78	Extremely Large Non-equilibrium Tunnel Magnetoresistance Ratio in CoRhMnGe Based Magnetic Tunnel Junction by Interface Modification. <i>Frontiers in Chemistry</i> , 2019, 7, 550.	1.8	15
79	Flexible, Temperature- $\epsilon$ Stable, and Fatigue- $\epsilon$ Endurable PbZr <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> Ferroelectric Film for Nonvolatile Memory. <i>Advanced Electronic Materials</i> , 2019, 5, 1900443.	2.6	25
80	Magnetic domain-wall induced ferroelectric polarization in rare-earth orthoferrites AFeO <sub>3</sub> (A = Lu, Y, Gd): first-principles calculations. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10059-10065.	2.7	11
81	Element Selected Spin-Dependent d-d Charge Transfer Transitions in Bi <sub>2</sub> FeMnO <sub>6</sub> Film: An Ultrafast Pump-Probe Study. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2884.	1.3	0
82	High Thermoelectric Performance of SnTe by the Synergistic Effect of Alloy Nanoparticles with Elemental Elements. <i>ACS Applied Energy Materials</i> , 2019, 2, 7354-7363.	2.5	25
83	Design of an all-inorganic flexible Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -based film capacitor with giant and stable energy storage performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22366-22376.	5.2	62
84	Optimized Electronic Configuration to Improve the Surface Absorption and Bulk Conductivity for Enhanced Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2019, 141, 3121-3128.	6.6	68
85	First-principles investigation on tunable electronic properties and magnetism by polarization in PbTiO <sub>3</sub> /BiFeO <sub>3</sub> 2D ferroelectric heterostructures. <i>Journal of Materials Chemistry C</i> , 2019, 7, 463-473.	2.7	21
86	Temperature-Driven Multiferroic Phase Transitions and Structural Instability Evolution in Lanthanum-Substituted Bismuth Ferrite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4457-4468.	1.5	13
87	Electronic, magnetic, and thermodynamic properties of rhombohedral Dysprosium Manganite and discussions of effects of uniform strain, spin-orbit coupling, hole and electron doping on its electronic structures. <i>Journal of Solid State Chemistry</i> , 2019, 276, 352-360.	1.4	4
88	Tuning the magnetism of two-dimensional hematene by ferroelectric polarization. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12301-12309.	1.3	16
89	Giant Magnetoelectric Coupling and Two-Dimensional Electron Gas Regulated by Polarization in BiFeO <sub>3</sub> /LaFeO <sub>3</sub> Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16393-16399.	1.5	18
90	New R $\bar{3}c$ -type half-metal MnBO <sub>3</sub> with remarkable multiple Dirac-like band crossings: Effects of uniform strain, vacancies, spin-orbit coupling, and hole and electron doping on its electronic structures. <i>Journal of Alloys and Compounds</i> , 2019, 804, 554-565.	2.8	5

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91	Perovskite R <sub>3</sub> phase AgCuF <sub>3</sub> : multiple Dirac cones, 100% spin polarization and its thermodynamic properties. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 354-360.	0.5	0
92	Valence mediated tunable magnetism and electronic properties by ferroelectric polarization switching in 2D Fe <sub>2</sub> /In <sub>2</sub> Se <sub>3</sub> van der Waals heterostructures. Nanoscale, 2019, 11, 9931-9936.	2.8	75
93	Strain effect for the newly discovered spin-gapless diamond-like quaternary-type semiconductor CuMn <sub>2</sub> InSe <sub>4</sub> . Journal of Alloys and Compounds, 2019, 793, 302-313.	2.8	7
94	Flexible piezoelectric energy harvester/sensor with high voltage output over wide temperature range. Nano Energy, 2019, 61, 337-345.	8.2	75
95	Flexible, Temperature-Resistant, and Fatigue-Free Ferroelectric Memory Based on Bi(Fe <sub>0.93</sub> Mn <sub>0.05</sub> Ti <sub>0.02</sub> )O <sub>3</sub> Thin Film. ACS Applied Materials & Interfaces, 2019, 11, 12647-12655.	4.0	67
96	Aurivillius layer-structured multiferroic materials. , 2019, , 41-60.		0
97	Ferroelectric nanofibers and their application in energy harvesting. , 2019, , 181-194.		0
98	Realization of tetragonal Heusler alloy Mn <sub>3</sub> -Cr Ga for spintronic applications. Intermetallics, 2019, 108, 87-93.	1.8	13
99	Domain switching in bismuth layer-structured multiferroic films. , 2019, , 1-21.		0
100	Strain tuning effects in perovskites. , 2019, , 23-39.		0
101	Triaxial braided piezo fiber energy harvesters for self-powered wearable technologies. Journal of Materials Chemistry A, 2019, 7, 8245-8257.	5.2	96
102	Enhancing oxygen evolution efficiency of multiferroic oxides by spintronic and ferroelectric polarization regulation. Nature Communications, 2019, 10, 1409.	5.8	76
103	Enhanced superconductivity induced by several-unit-cells diffusion in an FeTe/FeSe bilayer heterostructure. Physical Review B, 2019, 99, .	1.1	15
104	High thermoelectric performance in Cu <sub>2</sub> Se superionic conductor with enhanced liquid-like behaviour by dispersing SiC. Journal of Materials Chemistry A, 2019, 7, 7006-7014.	5.2	71
105	Magnetic Interaction between Pr <sup>3+</sup> and Dy <sup>3+</sup> Spins and Their Spin Transition Induced by Magnetic Field in a Dy <sub>0.5</sub> Pr <sub>0.5</sub> FeO <sub>3</sub> Single Crystal. Journal of Physical Chemistry C, 2019, 123, 30584-30593.	1.5	12
106	Temperature dependent giant birefringence and dichroism of a BiFeO <sub>3</sub> single crystal in the terahertz frequency. , 2019, , .		0
107	Prediction of possible martensitic transformations in all-d-metal Zinc-based Heusler alloys from first-principles. Journal of Magnetism and Magnetic Materials, 2019, 471, 49-55.	1.0	22
108	Perovskite lead-free dielectrics for energy storage applications. Progress in Materials Science, 2019, 102, 72-108.	16.0	1,137

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109	Electric field induced two-dimensional electron gas and magnetism in LaFeO <sub>3</sub> /SrTiO <sub>3</sub> (00̄0̄1) heterostructures. Applied Surface Science, 2019, 471, 185-195.	3.1	8
110	Robust manipulation of magnetism in La <sub>1-x</sub> A <sub>x</sub> O <sub>3</sub> /BaTiO <sub>3</sub> (A = Fe, Mn) thin films. Applied Surface Science, 2019, 471, 185-195.	1.0	10
111	Site preference and tetragonal distortion in palladium-rich Heusler alloys. IUCr, 2019, 6, 218-225.	1.0	41
112	Competition between cubic and tetragonal phases in all-d-metal Heusler alloys, $\text{Mn}_{1-x}\text{V}_x$ (X = Pd, Ni, Pt, Ag, Au, Ir, Co; x = 1, 0): a new potential direction of the Heusler family. IUCr, 2019, 6, 465-472.	1.0	44
113	Preparation and physical properties of a Cr <sub>3</sub> Al film with a DO <sub>3</sub> structure. IUCr, 2019, 6, 552-557.	1.0	19
114	R-type LnNiO <sub>3</sub> (Ln = La, Ce, Nd, Sm, Gd, Tb, Dy, Ho, Er, Lu) half-metals with multiple Dirac cones: a potential class of advanced spintronic materials. IUCr, 2019, 6, 990-995.	1.0	13
115	Giant piezoelectricity of Sm-doped Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> single crystals. Science, 2019, 364, 264-268.	6.0	479
116	Electric and magnetic properties of Aurivillius-phase compounds: Bi <sub>5</sub> Ti <sub>3</sub> XO <sub>15</sub> (X = Cu, Mn, Ni, V). Ceramics International, 2018, 44, 13226-13231.	2.3	8
117	Synthesis of molybdenum carbide superconducting compounds by microwave-plasma chemical vapor deposition. Journal of Applied Physics, 2018, 123, .	1.1	18
118	Vacancy engineering of Cu <sub>2-x</sub> Se nanoparticles with tunable LSPR and magnetism for dual-modal imaging guided photothermal therapy of cancer. Nanoscale, 2018, 10, 3130-3143.	2.8	64
119	Ultrahigh piezoelectricity in ferroelectric ceramics by design. Nature Materials, 2018, 17, 349-354.	13.3	874
120	First-Principles Investigation of Equiatomic Quaternary Heusler Alloys NbVMnAl and NbFeCrAl and a Discussion of the Generalized Electron-Filling Rule. Journal of Superconductivity and Novel Magnetism, 2018, 31, 189-196.	0.8	23
121	Magneto-electronic properties and tetragonal deformation of rare-earth-element-based quaternary Heusler half-metals: A first-principles prediction. Journal of Alloys and Compounds, 2018, 734, 329-341.	2.8	33
122	Tunable dielectric resonance with negative permittivity behavior of BiFeO <sub>3</sub> -Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> composite at about 1 ÅHz. Journal of Alloys and Compounds, 2018, 735, 2081-2086.	2.8	14
123	Electronic, magnetic, half-metallic and mechanical properties of a new quaternary Heusler compound ZrRhTiTi: Insights from first-principles studies. Solid State Communications, 2018, 269, 125-130.	0.9	14
124	The role of doping in spin reorientation and terahertz spin waves in SmDyFeO <sub>3</sub> single crystals. Journal Physics D: Applied Physics, 2018, 51, 024001.	1.3	7
125	Structural, electronic and magnetic properties of Mn <sub>x</sub> Ga/Co <sub>2</sub> MnSi (x = 1, 3) bilayers. Scientific Reports, 2018, 8, 16530.	1.6	10
126	Enzyme-catalysed room temperature and atmospheric pressure synthesis of metal carbonate hydroxides for energy storage. Nano Energy, 2018, 54, 200-208.	8.2	24



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127	Recent advances in Dirac spin-gapless semiconductors. <i>Applied Physics Reviews</i> , 2018, 5, 041103.	5.5	85
128	NiFe <sub>2</sub> O <sub>4</sub> nanoparticles coated on 3D graphene capsule as electrode for advanced energy storage applications. <i>Dalton Transactions</i> , 2018, 47, 14052-14059.	1.6	21
129	Domain switching in single-phase multiferroics. <i>Applied Physics Reviews</i> , 2018, 5, 021102.	5.5	39
130	Engineering electrical transport in $\pm$ -MgAgSb to realize high performances near room temperature. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16729-16735.	1.3	15
131	Multifield Control of Domains in a Room-Temperature Multiferroic 0.85BiTi <sub>0.1</sub> Fe <sub>0.8</sub> Mg <sub>0.1</sub> O <sub>3</sub> $\approx$ 0.15CaTiO <sub>3</sub> Thin Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 20712-20719.	4.0	17
132	Poling-free energy harvesters based on robust self-poled ferroelectric fibers. <i>Nano Energy</i> , 2018, 50, 97-105.	8.2	32
133	First Observation of Low-Temperature Magnetic Transition in CuAgSe. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19139-19145.	1.5	4
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