

Wei Ren

List of Publications by Year in descending order

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378
papers

9,938
citations

47006

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383
all docs

383
docs citations

383
times ranked

12218
citing authors

#	ARTICLE	IF	CITATIONS
1	Hopping transport through defect-induced localized states in molybdenum disulphide. Nature Communications, 2013, 4, 2642.	12.8	935
2	Quantum Anomalous Hall Effect in Graphene Proximity Coupled to an Antiferromagnetic Insulator. Physical Review Letters, 2014, 112, 116404.	7.8	361
3	Enhanced electric conductivity at ferroelectric vortex cores in BiFeO ₃ . Nature Physics, 2012, 8, 81-88.	16.7	324
4	Super-elastic ferroelectric single-crystal membrane with continuous electric dipole rotation. Science, 2019, 366, 475-479.	12.6	272
5	Intrinsic and anisotropic Rashba spin splitting in Janus transition-metal dichalcogenide monolayers. Physical Review B, 2018, 97, .	3.2	228
6	Temperature induced Spin Switching in SmFeO ₃ Single Crystal. Scientific Reports, 2014, 4, 5960.	3.3	198
7	Near room-temperature multiferroic materials with tunable ferromagnetic and electrical properties. Nature Communications, 2014, 5, 4021.	12.8	152
8	Ferromagnetism in multiferroic BiFeO ₃ . A first-principles-based study. Physical Review B, 2010, 81, .	3.2	116
9	Magnetolectric Coupling in Multiferroic Bilayer. Physical Review Letters, 2020, 125, 247601.	7.8	110
10	New Antiferroelectric Perovskite System with Ultrahigh Energy-Storage Performance at Low Electric Field. Chemistry of Materials, 2019, 31, 979-990.	6.7	108
11	Novel Nanoscale Twinned Phases in Perovskite Oxides. Advanced Functional Materials, 2013, 23, 234-240.	14.9	101
12	Coexistence of ferroelectric triclinic phases in highly strained BiFeO ₃ films. Physical Review B, 2011, 84, .	3.2	99
13	Piezoelectric K _{0.5} Na _{0.5} NbO ₃ thick films derived from polyvinylpyrrolidone-modified chemical solution deposition. Applied Physics Letters, 2008, 93, .	3.3	96
14	Deterministic Switching of Perpendicular Magnetic Anisotropy by Voltage Control of Spin Reorientation Transition in (Co/Pt) ₃ /Pb(Mg _{1/3} Nb _{2/3})O ₃ /PbTiO ₃ Multiferroic Heterostructures. ACS Nano, 2017, 11, 4337-4345.	14.6	91
15	Observation of Dicke cooperativity in magnetic interactions. Science, 2018, 361, 794-797.	12.6	91
16	Magnetization switching of rare earth orthochromite CeCrO ₃ . Applied Physics Letters, 2014, 104, .	3.3	89
17	Revisiting Properties of Ferroelectric and Multiferroic Thin Films under Tensile Strain from First Principles. Physical Review Letters, 2012, 109, 057602.	7.8	77
18	Identifying Oxygen Activation/Oxidation Sites for Efficient Soot Combustion over Silver Catalysts Interacted with Nanoflower-Like Hydrocalcite-Derived CoAlO Metal Oxides. ACS Catalysis, 2019, 9, 8772-8784.	11.2	77

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19	Large rotating field entropy change in ErFeO ₃ single crystal with angular distribution contribution. Applied Physics Letters, 2013, 103, .	3.3	76
20	Phase transition enhanced superior elasticity in freestanding single-crystalline multiferroic BiFeO ₃ membranes. Science Advances, 2020, 6, .	10.3	73
21	Electrides: a review. Journal of Materials Chemistry C, 2020, 8, 10551-10567.	5.5	73
22	Spin-dependent transport in Fe-doped carbon nanotubes. Physical Review B, 2007, 75, .	3.2	72
23	Quantitative Determination on Ionic Gating Control of Interfacial Magnetism. Advanced Materials, 2017, 29, 1606478.	21.0	72
24	Magnetic and electronic properties of Cr ₂ Ge ₂ Te ₆ monolayer by strain and electric-field engineering. Applied Physics Letters, 2019, 114, .	3.3	69
25	Voltage Control of Metal-insulator Transition and Non-volatile Ferroelastic Switching of Resistance in VOx/PMN-PT Heterostructures. Scientific Reports, 2014, 4, 5931.	3.3	67
26	Lanthanide (Gd ³⁺ and Yb ³⁺) functionalized gold nanoparticles for in vivo imaging and therapy. Biomaterials, 2016, 108, 35-43.	11.4	67
27	Spin reorientation transition in dysprosium-samarium orthoferrite single crystals. Physical Review B, 2015, 91, .	3.2	65
28	Universal Spin-Hall Conductance Fluctuations in Two Dimensions. Physical Review Letters, 2006, 97, 066603.	7.8	64
29	Decorating CeO ₂ Nanoparticles on Mn ₂ O ₃ Nanosheets to Improve Catalytic Soot Combustion. ACS Sustainable Chemistry and Engineering, 2018, 6, 16544-16554.	6.7	64
30	Modulating charge transfer dynamics for g-C ₃ N ₄ through a dimension and interface engineered transition metal phosphide co-catalyst for efficient visible-light photocatalytic hydrogen generation. Journal of Materials Chemistry A, 2019, 7, 6939-6945.	10.3	64
31	Anomalous and Polarization Sensitive Photoresponse of Td-WTe ₂ from Visible to Infrared Light. Advanced Materials, 2019, 31, e1804629.	21.0	63
32	Enhanced ferroelectric properties in Mn-doped K _{0.5} Na _{0.5} NbO ₃ thin films derived from chemical solution deposition. Applied Physics Letters, 2010, 97, 072902.	3.3	61
33	Terahertz Magnon-Polaritons in TmFeO ₃ . ACS Photonics, 2018, 5, 1375-1380.	6.6	58
34	Manipulation of valley pseudospin in WSe ₂ heterostructures by the magnetic proximity effect. Physical Review B, 2020, 101, .	10.2	58
35	A Sensitive Near-Infrared Fluorescent Sensor for Mitochondrial Hydrogen Sulfide. ACS Sensors, 2018, 3, 992-997.	7.8	57
36	Dipole Order in Halide Perovskites: Polarization and Rashba Band Splittings. Journal of Physical Chemistry C, 2017, 121, 23045-23054.	3.1	56

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37	Volatilization of alkali ions and effects of molecular weight of polyvinylpyrrolidone introduced in solution-derived ferroelectric $K_{0.5}Na_{0.5}NbO_3$ films. Journal of Materials Research, 2009, 24, 3516-3522.	2.6	55
38	Ferroelectric Domains in Multiferroic $BiFeO_3$ Films under Epitaxial Strains. Physical Review Letters, 2013, 110, 187601.	7.8	54
39	Organic Photoelectrochemical Transistor-Based Biosensor: A Proof of Concept Study toward Highly Sensitive DNA Detection. Advanced Healthcare Materials, 2018, 7, e1800536.	7.6	54
40	Atomistic theory of hybrid improper ferroelectricity in perovskites. Physical Review B, 2014, 89, .	3.2	51
41	Large Piezoelectric Strain with Superior Thermal Stability and Excellent Fatigue Resistance of Lead-Free Potassium Sodium Niobate-Based Grain Orientation-Controlled Ceramics. ACS Applied Materials & Interfaces, 2018, 10, 10220-10226.	8.0	51
42	Dirac-Weyl Semimetal: Coexistence of Dirac and Weyl Fermions in Polar Hexagonal $A_2B_2C_2$ Crystals. Physical Review Letters, 2018, 121, 106404.	7.8	50
43	Influence of Mn doping on domain wall motion in $Pb(Zr_{0.52}Ti_{0.48})O_3$ films. Journal of Applied Physics, 2011, 109, .	2.5	49
44	Study of strain effect on in-plane polarization in epitaxial $BiFeO_3$ thin films using planar electrodes. Physical Review B, 2012, 86, .	3.2	49
45	Domain Wall Motion in A and B Site Donor-Doped $Pb(Zr_{0.52}Ti_{0.48})O_3$ Films. Journal of the American Ceramic Society, 2012, 95, 2906-2913.		
46	Electric-Magneto-Optical Kerr Effect in a Hybrid Organic-Inorganic Perovskite. Journal of the American Chemical Society, 2017, 139, 12883-12886.	13.7	49
47	Large-Size $CH_3NH_3PbBr_3$ Single Crystal: Growth and In Situ Characterization of the Photophysics Properties. Journal of Physical Chemistry Letters, 2015, 6, 2622-2628.	4.6	48
48	Electrically controlled non-volatile switching of magnetism in multiferroic heterostructures via engineered ferroelastic domain states. NPG Asia Materials, 2016, 8, e316-e316.	7.9	48
49	Discovery of Enhanced Magnetoelectric Coupling through Electric Field Control of Two-Magnon Scattering within Distorted Nanostructures. ACS Nano, 2017, 11, 9286-9293.	14.6	48
50	Ionic Liquid Gating Control of Spin Reorientation Transition and Switching of Perpendicular Magnetic Anisotropy. Advanced Materials, 2018, 30, e1801639.	21.0	47
51	Understanding and Revisiting Properties of $EuTiO_3$ Bulk Material and Films from First Principles. Physical Review Letters, 2012, 109, 267602.	7.8	46
52	Magnetic phase transition and giant anisotropic magnetic entropy change in $TbFeO_3$ single crystal. Journal of Applied Physics, 2016, 119, .	2.5	46
53	Spin-reorientation magnetic transitions in Mn-doped $SmFeO_3$. IUCr, 2017, 4, 598-603.	2.2	46
54	Abnormal Poisson's ratio and Linear Compressibility in Perovskite Materials. Advanced Materials, 2012, 24, 4170-4174.	21.0	45

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55	The magnetic structures and transitions of a potential multiferroic orthoferrite ErFeO ₃ . Journal of Applied Physics, 2015, 117, 164105.	2.5	45
56	Enhancement of thermoelectric efficiency in triple quantum dots by the Dicke effect. Physical Review B, 2013, 87, .	3.2	43
57	Synthesis of Layerâ€Tunable Graphene: A Combined Kinetic Implantation and Thermal Ejection Approach. Advanced Functional Materials, 2015, 25, 3666-3675.	14.9	43
58	Low-temperature remote plasma-enhanced atomic layer deposition of graphene and characterization of its atomic-level structure. Journal of Materials Chemistry C, 2014, 2, 7570-7574.	5.5	42
59	A Controllable and Integrated Pump-enabled Microfluidic Chip and Its Application in Droplets Generating. Scientific Reports, 2017, 7, 11319.	3.3	42
60	Vertical ferroelectric switching by in-plane sliding of two-dimensional bilayer WTe ₂ . Nanoscale, 2019, 11, 18575-18581.	5.6	42
61	Spin dynamics and magnetoelectric coupling mechanism of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle C \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle o \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle N \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle h \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle$	3.2	41
62	Twofold spin reorientation and field-induced incomplete phase transition in single-crystal $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle Dy \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle 0.5 \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle$	3.0	40
63	Fluorinated Graphene in Interface Engineering of Geâ€Based Nanoelectronics. Advanced Functional Materials, 2015, 25, 1805-1813.	14.9	40
64	Modulation of Spin Dynamics via Voltage Control of Spinâ€Lattice Coupling in Multiferroics. Advanced Functional Materials, 2017, 27, 1605598.	14.9	40
65	A Highly Thermostable In ₂ O ₃ /ITO Thin Film Thermocouple Prepared via Screen Printing for High Temperature Measurements. Sensors, 2018, 18, 958.	3.8	40
66	Low-Temperature Combustion of Toluene over Cu-Doped SmMn ₂ O ₅ Mullite Catalysts via Creating Highly Active Cu ²⁺ â€Oâ€Mn ⁴⁺ Sites. Environmental Science & Technology, 2022, 56, 10433-10441.	10.0	40
67	Creating multiferroics with large tunable electrical polarization from paraelectric rare-earth orthoferrites. Journal of Physics Condensed Matter, 2014, 26, 472201.	1.8	39
68	ALD preparation of high-k HfO ₂ thin films with enhanced energy density and efficient electrostatic energy storage. RSC Advances, 2017, 7, 8388-8393.	3.6	39
69	NIR Light-Degradable Antimony Nanoparticle-Based Drug-Delivery Nanosystem for Synergistic Chemoâ€Photothermal Therapy in Vitro. ACS Applied Materials & Interfaces, 2019, 11, 48290-48299.	8.0	39
70	Ultrastrong magnonâ€magnon coupling dominated by antiresonant interactions. Nature Communications, 2021, 12, 3115.	12.8	39
71	Ultralow-Temperature NO _x Reduction over SmMn ₂ O ₅ Mullite Catalysts Via Modulating the Superficial Dual-Functional Active Sites. ACS Catalysis, 2022, 12, 7622-7632.	11.2	39
72	Synthesis, structure and piezo-/ferroelectric properties of a novel bismuth-containing ternary complex perovskite solid solution. Journal of Materials Chemistry C, 2017, 5, 3916-3923.	5.5	38

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73	High oxide ion conductivity in layer-structured Bi ₄ Ti ₃ O ₁₂ -based ferroelectric ceramics. Journal of Materials Chemistry C, 2019, 7, 8825-8835.	5.5	38
74	Recent progress of energy transfer and luminescence intensity boosting mechanism in Nd ³⁺ -sensitized upconversion nanoparticles. Journal of Rare Earths, 2019, 37, 791-805.	4.8	38
75	Effect of Pyrolysis Temperature on K _{0.5} Na _{0.5} NbO ₃ Thick Films Derived from Polyvinylpyrrolidone-Modified Chemical Solution. Journal of the American Ceramic Society, 2010, 93, 3686-3690.	3.8	37
76	Theoretical Study of O ₂ Molecular Adsorption and Dissociation on Silicon Carbide Nanotubes. Journal of Physical Chemistry C, 2010, 114, 970-976.	3.1	37
77	Ferroelectric polarization of hydroxyapatite from density functional theory. RSC Advances, 2017, 7, 21375-21379.	3.6	37
78	Spin switching in single crystal PrFeO ₃ and spin configuration diagram of rare earth orthoferrites. Journal of Alloys and Compounds, 2019, 811, 152043.	5.5	37
79	Nonlinear optical properties of lanthanum doped lead titanate thin film using Z-scan technique. Applied Physics Letters, 1996, 69, 458-459.	3.3	36
80	Size effects in multiferroic BiFeO ₃ : A first-principles-based study. Physical Review B, 2010, 82, .	3.2	36
81	THz-frequency magnon-phonon-polaritons in the collective strong-coupling regime. Journal of Applied Physics, 2019, 125, .	2.5	35
82	Persistent Spin-texture and Ferroelectric Polarization in 2D Hybrid Perovskite Benzylammonium Lead-halide. Journal of Physical Chemistry Letters, 2020, 11, 5177-5183.	4.6	34
83	Effect of chemical and hydrostatic pressures on structural and magnetic properties of rare-earth orthoferrites: a first-principles study. Journal of Physics Condensed Matter, 2013, 25, 466002.	1.8	33
84	Voltage Control of Perpendicular Magnetic Anisotropy in Multiferroic CoPt/TiO ₂ /PbTiO ₃ Overlayered Heterostructure. Journal of Applied Physics, 2019, 125, .	3.8	33
85	Comparative Study of the Chemical Constituents and Bioactivities of the Extracts from Fruits, Leaves and Root Barks of Lycium barbarum. Molecules, 2019, 24, 1585.	3.8	33
86	Highly efficient catalytic soot combustion performance of hierarchically meso-macroporous Co ₃ O ₄ /CeO ₂ nanosheet monolithic catalysts. Catalysis Today, 2020, 351, 83-93.	4.4	33
87	Electronic and optical properties of single-walled carbon nanotubes under a uniform transverse electric field: A first-principles study. Physical Review B, 2009, 79, .	3.2	32
88	Effect of chemical pressure, misfit strain and hydrostatic pressure on structural and magnetic behaviors of rare-earth orthochromates. Journal of Physics Condensed Matter, 2013, 25, 385604.	1.8	32
89	Bioferroelectric Properties of Glycine Crystals. Journal of Physical Chemistry Letters, 2019, 10, 1319-1324.	4.6	32
90	Significantly enhanced electrical properties in CaBi ₂ Nb ₂ O ₉ -based high-temperature piezoelectric ceramics. Applied Physics Letters, 2020, 117, .	3.3	32

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91	Tuning the Weak Ferromagnetic States in Dysprosium Orthoferrite. Scientific Reports, 2016, 6, 37529.	3.3	31
92	Observation of re-entrant spin reorientation in TbFe _{1-x} MnxO ₃ . Scientific Reports, 2016, 6, 33448.	3.3	31
93	Properties of pbtio ₃ , La-modified pbtio ₃ and Pb(Zr,Ti)O ₃ thin films and their application to infrared detectors. Integrated Ferroelectrics, 1997, 15, 271-279.	0.7	30
94	Epitaxial short-period PbTiO ₃ /BiFeO ₃ superlattices studied by first-principles calculations. Physical Review B, 2012, 86, .	3.2	30
95	Cooling field tuned magnetic phase transition and exchange bias-like effect in Y _{0.9} Pr _{0.1} CrO ₃ . Applied Physics Letters, 2015, 107, .	3.3	30
96	Quasiparticle band structures of CuCl, CuBr, AgCl, and AgBr: The extreme case. Physical Review B, 2018, 98, .	3.2	30
97	Polar domain structural evolution under electric field and temperature in the (Bi _{0.5} Na _{0.5})TiO ₃ -0.06BaTiO ₃ piezoceramics. Journal of the American Ceramic Society, 2019, 102, 437-447.	3.8	30
98	Structures, electrical properties, and leakage current behaviors of un-doped and Mn-doped lead-free ferroelectric K _{0.5} Na _{0.5} NbO ₃ films. Journal of Applied Physics, 2014, 115, .	2.5	29
99	Enhanced 4f-3d interaction by Ti-doping on the magnetic properties of perovskite SmFe _{1-x} Ti _x O ₃ . Journal of Applied Physics, 2013, 114, .	2.5	28
100	Lattice dynamics of Dirac node-line semimetal ZrSiS. Physical Review B, 2017, 96, .	3.2	28
101	First principles electronic structure and magnetic properties of inverse Heusler alloys X ₂ YZ(X=Cr; Y=Ti, V, Cr, Mn, Fe, Co, Ni; Z=Al, Ga, In, Sn, Pb, Bi, Sb, Te, Se, S). Journal of Applied Physics, 2017, 121, 074101.	2.3	27
102	Thermal Driven Giant Spin Dynamics at Three-Dimensional Heteroepitaxial Interface in Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ /BaTiO ₃ -Pillar Nanocomposites. ACS Nano, 2018, 12, 3751-3758.	14.6	27
103	Substrate-modulated ferromagnetism of two-dimensional Fe ₃ GeTe ₂ . Applied Physics Letters, 2020, 116, .	3.3	27
104	Electric field induced reversible 180° magnetization switching through tuning of interfacial exchange bias along magnetic easy-axis in multiferroic laminates. Scientific Reports, 2015, 5, 16480.	3.3	26
105	Recoverable Self-Polarization in Lead-Free Bismuth Sodium Titanate Piezoelectric Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 28716-28725.	8.0	26
106	Effect of thermal fluctuations of twist angles on charge transport in DNA: A model calculation. Physical Review B, 2005, 72, .	3.2	25
107	Models for the Structure and Electronic Transmission of Carbon Nanotubes Covalently Linked by a Molecular Bridge via Amide Couplings. Journal of Physical Chemistry C, 2007, 111, 3700-3704.	3.1	25
108	High-quality single crystal growth and spin flop of multiferroic Co ₄ Nb ₂ O ₉ . Journal of Crystal Growth, 2015, 420, 90-93.	1.5	25

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109	Magnetic field controllable electric polarization in Y-type hexaferrite Ba _{0.5} Sr _{1.5} Co ₂ Fe ₁₂ O ₂₂ . Journal of Applied Physics, 2015, 118, .	2.5	25
110	Electric field effect of GaAs monolayer from first principles. AIP Advances, 2017, 7, .	1.3	25
111	Ultrahigh-temperature piezoelectric polycrystalline ceramics: dramatically enhanced ferroelectricity, piezoelectricity and electrical resistivity in Ca _{1-x} Bi _{2+3x} Nb _{2-x} Mn _x O ₉ . Materials Research Letters. 2020, 8, 165-172.	8.7	25
112	Improper ferroelectricity at antiferromagnetic domain walls of perovskite oxides. Physical Review B, 2017, 96, .	3.2	24
113	Preparation and thermal volatility characteristics of In ₂ O ₃ /ITO thin film thermocouple by RF magnetron sputtering. AIP Advances, 2017, 7, .	1.3	24
114	Kinetic analysis of morphologies and crystal planes of nanostructured CeO ₂ catalysts on soot oxidation. Chemical Engineering Science, 2020, 226, 115891.	3.8	24
115	Local-scale structures across the morphotropic phase boundary in PbZr _{1-x} Ti _x O ₃ . IUCr, 2018, 5, 73-81.	2.2	24
116	Structure and local polar domains of Dy-modified BiFeO ₃ ∕PbTiO ₃ multiferroic solid solutions. Journal of Materials Chemistry C, 2015, 3, 12450-12456.	5.5	23
117	Engineering the Near-Edge Electronic Structure of SnSe through Strains. Physical Review Applied, 2017, 8, .	3.8	23
118	A new kind of thermocouple made of p-type and n-type semi-conductive oxides with giant thermoelectric voltage for high temperature sensing. Journal of Materials Chemistry C, 2018, 6, 3206-3211.	5.5	23
119	Low voltage induced reversible magnetoelectric coupling in Fe ₃ O ₄ thin films for voltage tunable spintronic devices. Materials Horizons, 2018, 5, 991-999.	12.2	23
120	Viewpoint: Atomic-Scale Design Protocols toward Energy, Electronic, Catalysis, and Sensing Applications. Inorganic Chemistry, 2019, 58, 14939-14980.	4.0	23
121	Difference in magnetic anisotropy of the ferromagnetic monolayers g - V and VI Cr	3.8	23
122	Difference in magnetic anisotropy of the ferromagnetic monolayers g - V and VI Cr Physical Review B, 2021, 103, .	3.2	23
123	Domain structure and in-plane switching in a highly strained Bi _{0.9} S _{0.1} FeO ₃ film. Applied Physics Letters, 2011, 99, 222904.	3.3	22
124	Lattice dynamics in monolayer and few-layer SnSe ₂ . Physical Review B, 2017, 96, .	3.2	22
125	Ferroelectric Phase Transition Induced a Large FMR Tuning in Self-Assembled BaTiO ₃ :Y ₃ Fe ₅ O ₁₂ Multiferroic Composites. ACS Applied Materials & Interfaces, 2017, 9, 30733-30740.	8.0	22
126	One-Dimensional Organic∕Inorganic Hybrid Perovskite Incorporating Near-Infrared-Absorbing Cyanine Cations. Journal of Physical Chemistry Letters, 2018, 9, 2438-2442.	4.6	22

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127	Ionic Modulation of the Interfacial Magnetism in a Bilayer System Comprising a Heavy Metal and a Magnetic Insulator for Voltage-Tunable Spintronic Devices. <i>Advanced Materials</i> , 2018, 30, e1802902.	21.0	22
128	Chiral Patterns of Tilting of Oxygen Octahedra in Zero-Dimensional Ferroelectrics and Multiferroics: A First Principle-Based Study. <i>Physical Review Letters</i> , 2010, 104, 207603.	7.8	21
129	Multiferroic heterostructures of Fe ₃ O ₄ /PMN-PT prepared by atomic layer deposition for enhanced interfacial magnetoelectric couplings. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	21
130	Nonlinear magnetoelectric effect in paraelectric state of Co ₄ Nb ₂ O ₉ single crystal. <i>Scientific Reports</i> , 2017, 7, 14079.	3.3	21
131	2D selenium allotropes from first principles and swarm intelligence. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 235702.	1.8	21
132	Manipulation of the Rashba effect in layered tellurides MTe (M = Ge, Sn, Pb). <i>Journal of Materials Chemistry C</i> , 2020, 8, 5143-5149.	5.5	21
133	Half-metallic chromium-chain-embedded wire in graphene and carbon nanotubes. <i>Physical Review B</i> , 2011, 84, .	3.2	20
134	Magnetoelectric relaxor and reentrant behaviours in multiferroic Pb(Fe ₂ /3W ₁ /3)O ₃ crystal. <i>Scientific Reports</i> , 2016, 6, 22327.	3.3	20
135	Quasiparticle electronic structure of honeycomb C ₃ N: from monolayer to bulk. <i>2D Materials</i> , 2019, 6, 015018.	4.4	20
136	A two-dimensional ferroelectric ferromagnetic half semiconductor in a VOF monolayer. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9130-9136.	5.5	20
137	Emerging spin-phonon coupling through cross-talk of two magnetic sublattices. <i>Nature Communications</i> , 2022, 13, 443.	12.8	20
138	Single crystal growth of Mn ₄ Nb ₂ O ₉ and its structure-magnetic coupling. <i>RSC Advances</i> , 2017, 7, 13846-13850.	3.6	19
139	Effect of swap disorder on the physical properties of the quaternary Heusler alloy PdMnTiAl: a first-principles study. <i>IUCr</i> , 2017, 4, 506-511.	2.2	19
140	3D Local Manipulation of the Metal-Insulator Transition Behavior in VO ₂ Thin Film by Defect-Induced Lattice Engineering. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701268.	3.7	19
141	Photoluminescence Enhancement of Carbon Dots by Surfactants at Room Temperature. <i>Chemistry - A European Journal</i> , 2018, 24, 15806-15811.	3.3	19
142	Understanding and revisiting the most complex perovskite system via atomistic simulations. <i>Physical Review B</i> , 2018, 97, .	3.2	19
143	Highly Sensitive Magnetic Sensor Based on Anisotropic Magnetoresistance Effect. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-3.	2.1	19
144	Operando diagnostic detection of interfacial oxygen "breathing" of resistive random access memory by bulk-sensitive hard X-ray photoelectron spectroscopy. <i>Materials Research Letters</i> , 2019, 7, 117-123.	8.7	19

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145	First-principles prediction of a room-temperature ferromagnetic and ferroelastic 2D multiferroic MnNX (X = F, Cl, Br, and I). <i>Nanoscale</i> , 2020, 12, 24237-24243.	5.6	19
146	Achieving a high dielectric tunability in strain-engineered tetragonal K0.5Na0.5NbO3 films. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	19
147	Enhanced ferroelectric properties of highly (100) oriented $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ thick films prepared by chemical solution deposition. <i>Journal of Advanced Dielectrics</i> , 2013, 03, 1350011.	3.4	18
148	Selected multiferroic perovskite oxides containing rare earth and transition metal elements. <i>Science Bulletin</i> , 2014, 59, 5170-5179.	1.7	18
149	Crystalline phase and electrical properties of lead-free piezoelectric KNN-based films with different orientations. <i>Journal of the American Ceramic Society</i> , 2017, 100, 2965-2971.	3.8	18
150	Developing IR-780 as a Novel Matrix for Enhanced MALDI MS Imaging of Endogenous High-Molecular-Weight Lipids in Brain Tissues. <i>Analytical Chemistry</i> , 2019, 91, 15873-15882.	6.5	18
151	Emergence of Type-I and Type-II Dirac line nodes in penta-octa-graphene. <i>Carbon</i> , 2020, 158, 210-215.	10.3	18
152	Structural and electronic properties of two-dimensional freestanding $\text{BaTiO}_3/\text{SrTiO}_3$ heterostructures. <i>Physical Review B</i> , 2020, 101, .	1.8	18
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