Wei Ren

List of Publications by Year
in descending order

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378	9,938	46984 47	60583 81
papers	citations	h-index	g-index

383	383	383	12218
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hopping transport through defect-induced localized states in molybdenum disulphide. Nature Communications, 2013, 4, 2642.	5.8	935
2	Quantum Anomalous Hall Effect in Graphene Proximity Coupled to an Antiferromagnetic Insulator. Physical Review Letters, 2014, 112, 116404.	2.9	361
3	Enhanced electric conductivity at ferroelectric vortex cores in BiFeO3. Nature Physics, 2012, 8, 81-88.	6.5	324
4	Super-elastic ferroelectric single-crystal membrane with continuous electric dipole rotation. Science, 2019, 366, 475-479.	6.0	272
5	Intrinsic and anisotropic Rashba spin splitting in Janus transition-metal dichalcogenide monolayers. Physical Review B, 2018, 97, .	1.1	228
6	Temperature induced Spin Switching in SmFeO3 Single Crystal. Scientific Reports, 2014, 4, 5960.	1.6	198
7	Near room-temperature multiferroic materials with tunable ferromagnetic and electrical properties. Nature Communications, 2014, 5, 4021.	5.8	152
8	Ferromagnetism in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiFeO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>: A first-principles-based study. Physical Review B, 2010, 81, .	3.1	116
9	Magnetoelectric Coupling in Multiferroic Bilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>VS</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2020, 125, 247601.	2.9	110
10	New Antiferroelectric Perovskite System with Ultrahigh Energy-Storage Performance at Low Electric Field. Chemistry of Materials, 2019, 31, 979-990.	3.2	108
11	Novel Nanoscale Twinned Phases in Perovskite Oxides. Advanced Functional Materials, 2013, 23, 234-240.	7.8	101
12	Coexistence of ferroelectric triclinic phases in highly strained BiFeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>films. Physical Review B, 2011, 84, .	1.1	99
13	Piezoelectric K0.5Na0.5NbO3 thick films derived from polyvinylpyrrolidone-modified chemical solution deposition. Applied Physics Letters, 2008, 93, .	1.5	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})O₃â€“PbTiO₃ Multiferroic Heterostructures. ACS Nano, 2017, 11, 4337-4345.	7.3	91
15	Observation of Dicke cooperativity in magnetic interactions. Science, 2018, 361, 794-797.	6.0	91
16	Magnetization switching of rare earth orthochromite CeCrO3. Applied Physics Letters, 2014, 104, .	1.5	89
17	Revisiting Properties of Ferroelectric and Multiferroic Thin Films under Tensile Strain from First Principles. Physical Review Letters, 2012, 109, 057602.	2.9	77
18	Identifying Oxygen Activation/Oxidation Sites for Efficient Soot Combustion over Silver Catalysts Interacted with Nanoflower-Like Hydrotalcite-Derived CoAlO Metal Oxides. ACS Catalysis, 2019, 9, 8772-8784.	5.5	77

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19	Large rotating field entropy change in ErFeO3 single crystal with angular distribution contribution. Applied Physics Letters, 2013, 103, .	1.5	76
20	Phase transition enhanced superior elasticity in freestanding single-crystalline multiferroic BiFeO ₃ membranes. Science Advances, 2020, 6, .	4.7	73
21	Electrides: a review. Journal of Materials Chemistry C, 2020, 8, 10551-10567.	2.7	73
22	Spin-dependent transport in Fe-doped carbon nanotubes. Physical Review B, 2007, 75, .	1.1	72
23	Quantitative Determination on Ionicâ€Liquidâ€Gating Control of Interfacial Magnetism. Advanced Materials, 2017, 29, 1606478.	11.1	72
24	Magnetic and electronic properties of Cr2Ge2Te6 monolayer by strain and electric-field engineering. Applied Physics Letters, 2019, 114, .	1.5	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.	1.6	67
26	Lanthanide (Gd3+ and Yb3+) functionalized gold nanoparticles for inÂvivo imaging and therapy. Biomaterials, 2016, 108, 35-43.	5.7	67
27	Spin reorientation transition in dysprosium-samarium orthoferrite single crystals. Physical Review B, 2015, 91, .	1.1	65
28	Universal Spin-Hall Conductance Fluctuations in Two Dimensions. Physical Review Letters, 2006, 97, 066603.	2.9	64
29	Decorating CeO₂ Nanoparticles on Mn₂O₃ Nanosheets to Improve Catalytic Soot Combustion. ACS Sustainable Chemistry and Engineering, 2018, 6, 16544-16554.	3.2	64
30	Modulating charge transfer dynamics for g-C₃N₄ 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.	5.2	64
31	Anomalous and Polarizationâ€Sensitive Photoresponse of T_dâ€WTe₂ from Visible to Infrared Light. Advanced Materials, 2019, 31, e1804629.	11.1	63
32	Enhanced ferroelectric properties in Mn-doped K0.5Na0.5NbO3 thin films derived from chemical solution deposition. Applied Physics Letters, 2010, 97, 072902.	1.5	61
33	Terahertz Magnon-Polaritons in TmFeO₃. ACS Photonics, 2018, 5, 1375-1380.	3.2	58
34	Manipulation of valley pseudospin in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WSe</mml:mi><mml:mn>2</mml:mn></mml:msub><mm heterostructures by the magnetic proximity effect. Physical Review B, 2020, 101, .	1.1	58
35	A Sensitive Near-Infrared Fluorescent Sensor for Mitochondrial Hydrogen Sulfide. ACS Sensors, 2018, 3, 992-997.	4.0	57
36	Dipole Order in Halide Perovskites: Polarization and Rashba Band Splittings. Journal of Physical Chemistry C, 2017, 121, 23045-23054.	1.5	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}NbO₃ films. Journal of Materials Research, 2009, 24, 3516-3522.	1.2	55
38	Ferroelectric Domains in Multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Films under Epitaxial Strains. Physical Review Letters, 2013, 110, 187601.	2.9	54
39	Organic Photoâ€Electrochemical Transistorâ€Based Biosensor: A Proofâ€ofâ€Concept Study toward Highly Sensitive DNA Detection. Advanced Healthcare Materials, 2018, 7, e1800536.	3.9	54
40	Atomistic theory of hybrid improper ferroelectricity in perovskites. Physical Review B, 2014, 89, .	1.1	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.	4.0	51
42	Dirac-Weyl Semimetal: Coexistence of Dirac and Weyl Fermions in Polar Hexagonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi><mml:mi>B</mml:mi><mml:mi>C</mml:mi></mml:math> Crystals. Physical Review Letters, 2018, 121, 106404.	2.9	50
43	Influence of Mn doping on domain wall motion in Pb(Zr0.52Ti0.48)O3 films. Journal of Applied Physics, 2011, 109, .	1.1	49
44	Study of strain effect on in-plane polarization in epitaxial BiFeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>thin films using planar electrodes. Physical Review B, 2012, 86, .	1.1	49
45	Domain Wall Motion in <scp>A</scp> and <scp>B</scp> Site Donorâ€Doped <scp><scp>Pb</scp></scp>(<scp><scp>Zr</scp></scp>_{0.52}<scp><scp>Ti</scp></scp>_{0.48})<scp><scp>O</scp></scp> Films. Journal of the American Ceramic Society, 2012, 95, 2906-2913.	1.9	49
46	Electric-Magneto-Optical Kerr Effect in a Hybrid Organicâ€“Inorganic Perovskite. Journal of the American Chemical Society, 2017, 139, 12883-12886.	6.6	49
47	Large-Size CH₃NH₃PbBr₃ Single Crystal: Growth and In Situ Characterization of the Photophysics Properties. Journal of Physical Chemistry Letters, 2015, 6, 2622-2628.	2.1	48
48	Electrically controlled non-volatile switching of magnetism in multiferroic heterostructures via engineered ferroelastic domain states. NPG Asia Materials, 2016, 8, e316-e316.	3.8	48
49	Discovery of Enhanced Magnetoelectric Coupling through Electric Field Control of Two-Magnon Scattering within Distorted Nanostructures. ACS Nano, 2017, 11, 9286-9293.	7.3	48
50	Ionic Liquid Gating Control of Spin Reorientation Transition and Switching of Perpendicular Magnetic Anisotropy. Advanced Materials, 2018, 30, e1801639.	11.1	47
51	Understanding and Revisiting Properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>EuTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Bulk Material and Films from First Principles. Physical Review Letters, 2012, 109, 267602.	2.9	46
52	Magnetic phase transition and giant anisotropic magnetic entropy change in TbFeO3 single crystal. Journal of Applied Physics, 2016, 119, .	1.1	46
53	Spin-reorientation magnetic transitions in Mn-doped SmFeO₃. IUCrJ, 2017, 4, 598-603.	1.0	46
54	Abnormal Poisson's ratio and Linear Compressibility in Perovskite Materials. Advanced Materials, 2012, 24, 4170-4174.	11.1	45

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55	The magnetic structures and transitions of a potential multiferroic orthoferrite ErFeO₃. Journal of Applied Physics, 2015, 117, 164105.	1.1	45
56	Enhancement of thermoelectric efficiency in triple quantum dots by the Dicke effect. Physical Review B, 2013, 87, .	1.1	43
57	Synthesis of Layerâ€Tunable Graphene: A Combined Kinetic Implantation and Thermal Ejection Approach. Advanced Functional Materials, 2015, 25, 3666-3675.	7.8	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.	2.7	42
59	A Controllable and Integrated Pump-enabled Microfluidic Chip and Its Application in Droplets Generating. Scientific Reports, 2017, 7, 11319.	1.6	42
60	Vertical ferroelectric switching by in-plane sliding of two-dimensional bilayer WTe₂. Nanoscale, 2019, 11, 18575-18581.	2.8	42
61	Spin dynamics investigation of coupling mechanism of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">o</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi	1.1	41
62	Twofold spin reorientation and field-induced incomplete phase transition in single-crystal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Dy</mml:mi><mml:mrow><mml:mn>0.5</m Physical Review B, 2014, 90, .	1.1	40
63	Fluorinated Graphene in Interface Engineering of Geâ€Based Nanoelectronics. Advanced Functional Materials, 2015, 25, 1805-1813.	7.8	40
64	Modulation of Spin Dynamics via Voltage Control of Spinâ€Lattice Coupling in Multiferroics. Advanced Functional Materials, 2017, 27, 1605598.	7.8	40
65	A Highly Thermostable In2O3/ITO Thin Film Thermocouple Prepared via Screen Printing for High Temperature Measurements. Sensors, 2018, 18, 958.	2.1	40
66	Low-Temperature Combustion of Toluene over Cu-Doped SmMn₂O₅ Mullite Catalysts via Creating Highly Active Cu²⁺â€“Oâ€“Mn⁴⁺ Sites. Environmental Science & Technology, 2022, 56, 10433-10441.	4.6	40
67	Creating multiferroics with large tunable electrical polarization from paraelectric rare-earth orthoferrites. Journal of Physics Condensed Matter, 2014, 26, 472201.	0.7	39
68	ALD preparation of high-k HfO₂ thin films with enhanced energy density and efficient electrostatic energy storage. RSC Advances, 2017, 7, 8388-8393.	1.7	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.	4.0	39
70	Ultrastrong magnonâ€“magnon coupling dominated by antiresonant interactions. Nature Communications, 2021, 12, 3115.	5.8	39
71	Ultralow-Temperature NO_x Reduction over SmMn₂O₅ Mullite Catalysts Via Modulating the Superficial Dual-Functional Active Sites. ACS Catalysis, 2022, 12, 7622-7632.	5.5	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.	2.7	38

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73	High oxide ion conductivity in layer-structured Bi₄Ti₃O₁₂-based ferroelectric ceramics. Journal of Materials Chemistry C, 2019, 7, 8825-8835.	2.7	38
74	Recent progress of energy transfer and luminescence intensity boosting mechanism in Nd3+-sensitized upconversion nanoparticles. Journal of Rare Earths, 2019, 37, 791-805.	2.5	38
75	Effect of Pyrolysis Temperature on K_{0.5}Na_{0.5}NbO₃ Thick Films Derived from Polyvinylpyrrolidoneâ€Modified Chemical Solution. Journal of the American Ceramic Society, 2010, 93, 3686-3690.	1.9	37
76	Theoretical Study of O₂ Molecular Adsorption and Dissociation on Silicon Carbide Nanotubes. Journal of Physical Chemistry C, 2010, 114, 970-976.	1.5	37
77	Ferroelectric polarization of hydroxyapatite from density functional theory. RSC Advances, 2017, 7, 21375-21379.	1.7	37
78	Spin switching in single crystal PrFeO3 and spin configuration diagram of rare earth orthoferrites. Journal of Alloys and Compounds, 2019, 811, 152043.	2.8	37
79	Nonlinear optical properties of lanthanum doped lead titanate thin film using Zâ€scan technique. Applied Physics Letters, 1996, 69, 458-459.	1.5	36
80	Size effects in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiFeO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> A first-principles-based study. Physical Review B, 2010, 82, .	3.1	36
81	THz-frequency magnon-phonon-polaritons in the collective strong-coupling regime. Journal of Applied Physics, 2019, 125, .	1.1	35
82	Persistent Spin-texture and Ferroelectric Polarization in 2D Hybrid Perovskite Benzylammonium Lead-halide. Journal of Physical Chemistry Letters, 2020, 11, 5177-5183.	2.1	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.	0.7	33
84	Voltage Control of Perpendicular Magnetic Anisotropy in Multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mo mathvariant="bold" stretchy="false">(</mml:mo><mml:mi>Co</mml:mi><mml:mo>/</mml:mo><mml:mi>Pt</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlo	1.5	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.	1.7	33
86	Highly efficient catalytic soot combustion performance of hierarchically meso-macroporous Co3O4/CeO2 nanosheet monolithic catalysts. Catalysis Today, 2020, 351, 83-93.	2.2	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, .	1.1	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.	0.7	32
89	Bioferroelectric Properties of Glycine Crystals. Journal of Physical Chemistry Letters, 2019, 10, 1319-1324.	2.1	32
90	Significantly enhanced electrical properties in CaBi2Nb2O9-based high-temperature piezoelectric ceramics. Applied Physics Letters, 2020, 117, .	1.5	32

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91	Tuning the Weak Ferromagnetic States in Dysprosium Orthoferrite. Scientific Reports, 2016, 6, 37529.	1.6	31
92	Observation of re-entrant spin reorientation in TbFe1â^'xMnxO3. Scientific Reports, 2016, 6, 33448.	1.6	31
93	Properties of pbtio3, La-modified pbtio3 and Pb(Zr,Ti)O3 thin films and their application to infrared detectors. Integrated Ferroelectrics, 1997, 15, 271-279.	0.3	30
94	Epitaxial short-period PbTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>/BiFeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>superlattices studied by first-principles calculations. Physical Review B, 2012, 86, .	1.1	30
95	Cooling field tuned magnetic phase transition and exchange bias-like effect in Y0.9Pr0.1CrO3. Applied Physics Letters, 2015, 107, .	1.5	30
96	Quasiparticle band structures of CuCl, CuBr, AgCl, and AgBr: The extreme case. Physical Review B, 2018, 98, .	1.1	30
97	Polar domain structural evolution under electric field and temperature in the (Bi_{0.5}Na_{0.5})TiO₃â€0.06BaTiO₃ piezoceramics. Journal of the American Ceramic Society, 2019, 102, 437-447.	1.9	30
98	Structures, electrical properties, and leakage current behaviors of un-doped and Mn-doped lead-free ferroelectric K0.5Na0.5NbO3 films. Journal of Applied Physics, 2014, 115, .	1.1	29
99	Enhanced 4f-3d interaction by Ti-doping on the magnetic properties of perovskite SmFe1â^'xTixO3. Journal of Applied Physics, 2013, 114, .	1.1	28
100	Lattice dynamics of Dirac node-line semimetal ZrSiS. Physical Review B, 2017, 96, .	1.1	28
101	First principles electronic structure and magnetic properties of inverse Heusler alloys X 2 YZ(X=Cr;) Tj ETQq1 1 0.784314 rgBT /Overlock	1.0	27
102	Thermal Driven Giant Spin Dynamics at Three-Dimensional Heteroepitaxial Interface in Ni_{0.5}Zn_{0.5}Fe₂O₄/BaTiO₃-Pillar Nanocomposites. ACS Nano, 2018, 12, 3751-3758.	7.3	27
103	Substrate-modulated ferromagnetism of two-dimensional Fe3GeTe2. Applied Physics Letters, 2020, 116, .	1.5	27
104	Electric field induced reversible 180Â° magnetization switching through tuning of interfacial exchange bias along magnetic easy-axis in multiferroic laminates. Scientific Reports, 2015, 5, 16480.	1.6	26
105	Recoverable Self-Polarization in Lead-Free Bismuth Sodium Titanate Piezoelectric Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 28716-28725.	4.0	26
106	Effect of thermal fluctuations of twist angles on charge transport in DNA: A model calculation. Physical Review B, 2005, 72, .	1.1	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.	1.5	25
108	High-quality single crystal growth and spin flop of multiferroic Co4Nb2O9. Journal of Crystal Growth, 2015, 420, 90-93.	0.7	25

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109	Magnetic field controllable electric polarization in Y-type hexaferrite Ba0.5Sr1.5Co2Fe12O22. Journal of Applied Physics, 2015, 118, .	1.1	25
110	Electric field effect of GaAs monolayer from first principles. AIP Advances, 2017, 7, .	0.6	25
111	Ultrahigh-temperature piezoelectric polycrystalline ceramics: dramatically enhanced ferroelectricity, piezoelectricity and electrical resistivity in Ca_{1â^'3x}Bi_{2+3x}Nb_{2â^'x}Mn_xO₉. Materials Research Letters, 2020, 8, 165-172.	4.1	25
112	Improper ferroelectricity at antiferromagnetic domain walls of perovskite oxides. Physical Review B, 2017, 96, .	1.1	24
113	Preparation and thermal volatility characteristics of In2O3/ITO thin film thermocouple by RF magnetron sputtering. AIP Advances, 2017, 7, .	0.6	24
114	Kinetic analysis of morphologies and crystal planes of nanostructured CeO2 catalysts on soot oxidation. Chemical Engineering Science, 2020, 226, 115891.	1.9	24
115	Local-scale structures across the morphotropic phase boundary in PbZr_{1â^'x}Ti_x O₃. IUCrJ, 2018, 5, 73-81.	1.0	24
116	Structure and local polar domains of Dy-modified BiFeO₃â€“PbTiO₃ multiferroic solid solutions. Journal of Materials Chemistry C, 2015, 3, 12450-12456.	2.7	23
117	Engineering the Near-Edge Electronic Structure of SnSe through Strains. Physical Review Applied, 2017, 8, .	1.5	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.	2.7	23
119	Low voltage induced reversible magnetoelectric coupling in Fe₃O₄ thin films for voltage tunable spintronic devices. Materials Horizons, 2018, 5, 991-999.	6.4	23
120	Viewpoint: Atomic-Scale Design Protocols toward Energy, Electronic, Catalysis, and Sensing Applications. Inorganic Chemistry, 2019, 58, 14939-14980.	1.9	23
121	Tunable Type-II <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Bi</mml:mi><mml:mi>VO</mml:mi></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:math> mathvariant="normal">g</mml:mi></mml:mrow></mml:mrow></mml:math> - <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mrow><mml:mi	1.5	23
122	Difference in magnetic anisotropy of the ferromagnetic monolayers <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">VI</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CrI</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	1.1	23
123	Domain structure and in-plane switching in a highly strained Bi_{0.9}Sm_{0.1}FeO₃ film. Applied Physics Letters, 2011, 99, 222904.	1.5	22
124	Lattice dynamics in monolayer and few-layer SnSe2. Physical Review B, 2017, 96, .	1.1	22
125	Ferroelectric Phase Transition Induced a Large FMR Tuning in Self-Assembled BaTiO₃:Y₃Fe₅O₁₂ Multiferroic Composites. ACS Applied Materials & Interfaces, 2017, 9, 30733-30740.	4.0	22
126	One-Dimensional Organicâ€“Inorganic Hybrid Perovskite Incorporating Near-Infrared-Absorbing Cyanine Cations. Journal of Physical Chemistry Letters, 2018, 9, 2438-2442.	2.1	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 Voltageâ€Tunable Spintronic Devices. Advanced Materials, 2018, 30, e1802902.	11.1	22
128	Chiral Patterns of Tilting of Oxygen Octahedra in Zero-Dimensional Ferroelectrics and Multiferroics: A First Principle-Based Study. Physical Review Letters, 2010, 104, 207603.	2.9	21
129	Multiferroic heterostructures of Fe3O4/PMN-PT prepared by atomic layer deposition for enhanced interfacial magnetoelectric couplings. Applied Physics Letters, 2017, 110, .	1.5	21
130	Nonlinear magnetoelectric effect in paraelectric state of Co4Nb2O9 single crystal. Scientific Reports, 2017, 7, 14079.	1.6	21
131	2D selenium allotropes from first principles and swarm intelligence. Journal of Physics Condensed Matter, 2019, 31, 235702.	0.7	21
132	Manipulation of the Rashba effect in layered tellurides MTe (M = Ge, Sn, Pb). Journal of Materials Chemistry C, 2020, 8, 5143-5149.	2.7	21
133	Half-metallic chromium-chain-embedded wire in graphene and carbon nanotubes. Physical Review B, 2011, 84, .	1.1	20
134	Magnetoelectric relaxor and reentrant behaviours in multiferroic Pb(Fe2/3W1/3)O3 crystal. Scientific Reports, 2016, 6, 22327.	1.6	20
135	Quasiparticle electronic structure of honeycomb C ₃ N: from monolayer to bulk. 2D Materials, 2019, 6, 015018.	2.0	20
136	A two-dimensional ferroelectric ferromagnetic half semiconductor in a VOF monolayer. Journal of Materials Chemistry C, 2021, 9, 9130-9136.	2.7	20
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