Yang Bai

List of Publications by Citations

175	4,573	37	59
papers	citations	h-index	g-index
182	5,406	4.8	5.73
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
175	Abnormal electrocaloric effect of Na0.5Bi0.5TiO3BaTiO3 lead-free ferroelectric ceramics above room temperature. *Materials Research Bulletin*, **2011**, 46, 1866-1869	5.1	200
174	Machine learning assisted design of high entropy alloys with desired property. *Acta Materialia*, **2019**, 170, 109-117	8.4	198
173	Direct measurement of giant electrocaloric effect in BaTiO3 multilayer thick film structure beyond theoretical prediction. *Applied Physics Letters*, **2010**, 96, 192902	3.4	147
172	Structural, magnetic and microwave absorption properties of doped Ba-hexaferrite nanoparticles synthesized by co-precipitation method. *Journal of Magnetism and Magnetic Materials*, **2015**, 381, 1-9	2.8	139
171	Large room-temperature electrocaloric effect in lead-free BaHfxTi1xO3 ceramics under low electric field. *Acta Materialia*, **2016**, 115, 58-67	8.4	121
170	Optimized electrocaloric refrigeration capacity in lead-free (1x)BaZr0.2Ti0.8O3-xBa0.7Ca0.3TiO3 ceramics. *Applied Physics Letters*, **2013**, 102, 252904	3.4	113
169	The giant electrocaloric effect and high effective cooling power near room temperature for BaTiO3 thick film. *Journal of Applied Physics*, **2011**, 110, 094103	2.5	111
168	Experimental retrieval of the effective parameters of metamaterials based on a waveguide method. *Optics Express*, **2006**, 14, 12944-9	3.3	110
167	Phase prediction in high entropy alloys with a rational selection of materials descriptors and machine learning models. *Acta Materialia*, **2020**, 185, 528-539	8.4	99
166	Both high reliability and giant electrocaloric strength in BaTiOceramics. *Scientific Reports*, **2013**, 3, 2895	4.9	90
165	Magnetotunable left-handed material consisting of yttrium iron garnet slab and metallic wires. *Applied Physics Letters*, **2007**, 91, 131107	3.4	88
164	The mechanism of hydrogen-induced pitting corrosion in duplex stainless steel studied by SKPFM. *Corrosion Science*, **2012**, 60, 76-81	6.8	85
163	Hysteresis analysis of CoTi substituted M-type BaSr hexagonal ferrite. *Materials Letters*, **2009**, 63, 1921-1924	3.3	79
162	Static magnetic properties of Co and Ru substituted BaSr ferrite. *Materials Research Bulletin*, **2008**, 43, 176-184	5.1	79
161	Effect of grain refinement on hydrogen embrittlement behaviors of high-Mn TWIP steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 651, 935-944	5.3	77
160	Magnetic properties of CoTi substituted barium hexaferrite. *Journal of Alloys and Compounds*, **2013**, 546, 234-238	5.7	77
159	A systematic modification of the large electrocaloric effect within a broad temperature range in rare-earth doped BaTiO3 ceramics. *Journal of Materials Chemistry C*, **2016**, 4, 1842-1849	7.1	76

158	Entropy-change measurement of electrocaloric effect of BaTiO3 single crystal. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 941-944	1.6	75
157	Effect of Bi-substitution on the dielectric properties of polycrystalline yttrium iron garnet. *Journal of Magnetism and Magnetic Materials*, **2004**, 280, 208-213	2.8	74
156	Giant magnetoelectric effect in Ni□ead zirconium titanate cylindrical structure. *Applied Physics Letters*, **2008**, 92, 052904	3.4	71
155	Combined effects of diffuse phase transition and microstructure on the electrocaloric effect in Ba1□SrxTiO3 ceramics. *Applied Physics Letters*, **2013**, 103, 162902	3.4	68
154	Hydroxyl decorated g-C3N4 nanoparticles with narrowed bandgap for high efficient photocatalyst design. *Applied Catalysis B: Environmental*, **2019**, 244, 262-271	21.8	68
153	Complex Y-type hexagonal ferrites: an ideal material for high-frequency chip magnetic components. *Journal of Magnetism and Magnetic Materials*, **2003**, 264, 44-49	2.8	63
152	Electrical properties of non-stoichiometric Y-type hexagonal ferrite. *Journal of Magnetism and Magnetic Materials*, **2004**, 278, 208-213	2.8	52
151	Magnetic Properties of a Novel Ceramic Ferroelectric□erromagnetic Composite. *Journal of the American Ceramic Society*, **2005**, 88, 3440-3443	3.8	52
150	Magnetic properties of Cu, Zn-modified Co2Y hexaferrites. *Journal of Magnetism and Magnetic Materials*, **2002**, 246, 140-144	2.8	50
149	Cobalt doped LaSrTiO3□as an anode catalyst: effect of Co nanoparticle precipitation on SOFCs operating on H2S-containing hydrogen. *Journal of Materials Chemistry A*, **2013**, 1, 9689	13	49
148	The effect of Co and Zr substitution on dc magnetic properties of Ba□r ferrite. *Journal of Alloys and Compounds*, **2008**, 464, 429-433	5.7	46
147	Large electrocaloric effect over a wide temperature range in BaTiO3-modified lead-free ceramics. *Journal of Materials Chemistry C*, **2019**, 7, 1353-1358	7.1	41
146	Direct and indirect characterization of electrocaloric effect in (Na,K)NbO3 based lead-free ceramics. *Applied Physics Letters*, **2016**, 109, 162902	3.4	41
145	Effect of Mn doping on physical properties of Y-type hexagonal ferrite. *Journal of Alloys and Compounds*, **2009**, 473, 505-508	5.7	40
144	Preparation and magnetic characterization of Y-type hexaferrites containing zinc, cobalt and copper. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2003**, 99, 266-269	3.1	40
143	Effect of hydrogen on pitting susceptibility of 2507 duplex stainless steel. *Corrosion Science*, **2013**, 70, 140-144	6.8	39
142	Kinetic electrocaloric effect and giant net cooling of lead-free ferroelectric refrigerants. *Journal of Applied Physics*, **2010**, 108, 104102	2.5	39
141	Direct observation of two 90□steps of 180□domain switching in BaTiO3 single crystal under an antiparallel electric field. *Applied Physics Letters*, **2008**, 93, 152905	3.4	39

140	NiPZTNi trilayered magnetoelectric composites synthesized by electro-deposition. *Journal of Physics Condensed Matter*, **2008**, 20, 025203	1.8	38
139	Hydrogen Impurity Defects in Rutile TiO2. *Scientific Reports*, **2015**, 5, 17634	4.9	37
138	Effects of Long- and Short-Range Ferroelectric Order on the Electrocaloric Effect in Relaxor Ferroelectric Ceramics. *Physical Review Applied*, **2019**, 11,	4.3	36
137	The physic properties of BiZn codoped Y-type hexagonal ferrite. *Journal of Alloys and Compounds*, **2008**, 450, 412-416	5.7	36
136	Wideband magnetoelectric measurement system with the application of a virtual multi-channel lock-in amplifier. *Measurement Science and Technology*, **2008**, 19, 045702	2	35
135	Magnetoelectric effect in a NiPZTNi cylindrical layered composite synthesized by electro-deposition. *Journal Physics D: Applied Physics*, **2008**, 41, 022002	3	35
134	Fully Controllable Pancharatnam-Berry Metasurface Array with High Conversion Efficiency and Broad Bandwidth. *Scientific Reports*, **2016**, 6, 34819	4.9	34
133	The structure and electric characters of proton-conducting chitosan membranes with various ammonium salts as complexant. *Journal of Polymer Science, Part B: Polymer Physics*, **2010**, 48, 880-885	2.6	34
132	The electrocaloric effect around the orthorhombic- tetragonal first-order phase transition in BaTiO3. *AIP Advances*, **2012**, 2, 022162	1.5	33
131	Enhanced Strength and Ductility in an Ultrafine-Grained Fe-22Mn-0.6C Austenitic Steel Having Fully Recrystallized Structure. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 5300-5304	2.3	32
130	Humidity effects on (001) BaTiO3 single crystal surface water adsorption. *Applied Physics Letters*, **2011**, 98, 062905	3.4	32
129	Band gap engineering of TiO2 through hydrogenation. *Applied Physics Letters*, **2014**, 105, 202114	3.4	30
128	Synthesis and performance of proton conducting chitosan/NH4Cl electrolyte. *Journal of Polymer Science, Part B: Polymer Physics*, **2010**, 48, 260-266	2.6	30
127	Revealing the real high temperature performance and depolarization characteristics of piezoelectric ceramics by combined in situ techniques. *Journal of Materials Chemistry C*, **2018**, 6, 1433-1444	7.1	29
126	Control multiple electrocaloric effect peak in Pb(Mg1/3Nb2/3)O3-PbTiO3 by phase composition and crystal orientation. *Applied Physics Letters*, **2015**, 107, 192904	3.4	29
125	Water adsorption behavior on metal surfaces and its influence on surface potential studied by in situ SPM. *Applied Surface Science*, **2012**, 258, 9087-9091	6.7	28
124	Phase formation, sintering behavior and magnetic property of BiCoTi substituted M-type barium hexaferrite. *Journal of Alloys and Compounds*, **2013**, 556, 20-25	5.7	27
123	Flexible control of positive and negative electrocaloric effects under multiple fields for a giant improvement of cooling capacity. *Applied Physics Letters*, **2017**, 111, 093901	3.4	27

122	Phase formation process, microstructure and magnetic properties of Y-type hexagonal ferrite prepared by citrate sol□gel auto-combustion method. *Materials Chemistry and Physics*, **2006**, 98, 66-70	4.4	26
121	Etching anisotropy mechanisms lead to morphology-controlled silicon nanoporous structures by metal assisted chemical etching. *Nanoscale*, **2016**, 8, 3085-92	7.7	25
120	Microstructure, hysteresis and microwave absorption analysis of Ba(1 □x)SrxFe12O19 ferrite. *Materials Chemistry and Physics*, **2008**, 111, 225-231	4.4	25
119	Temperature independence of piezoelectric properties for high-performance BiFeO-BaTiO lead-free piezoelectric ceramics up to 300 □C.. *RSC Advances*, **2018**, 8, 35794-35801	3.7	25
118	High frequency magnetic mechanism of Ni-substituted Co2Z hexagonal ferrite. *Materials Research Bulletin*, **2009**, 44, 898-900	5.1	24
117	Magnetoelectric coupling and the hydrogen effect on Ni□PZT□Ni trilayers made by electrodeposition. *Smart Materials and Structures*, **2007**, 16, 2501-2504	3.4	24
116	Large electrocaloric efficiency over a broad temperature span in lead-free BaTiO3-based ceramics near room temperature. *Applied Physics Letters*, **2017**, 111, 202902	3.4	23
115	Annealing effects on the microstructure and magnetic domain structures of duplex stainless steel studied by in situ technique. *Applied Surface Science*, **2012**, 259, 213-218	6.7	22
114	Frequency dispersion of complex permeability of Y-type hexagonal ferrites. *Materials Letters*, **2004**, 58, 1602-1606	3.3	22
113	Electric field and surface charge effects on ferroelectric domain dynamics in BaTiO3 single crystal. *Physical Review B*, **2011**, 84,	3.3	21
112	Experimental demonstration of tunable negative phase velocity and negative refraction in a ferromagnetic/ferroelectric composite metamaterial. *Applied Physics Letters*, **2008**, 93, 201106	3.4	21
111	An investigation of the magnetic properties of Co2Y hexaferrite. *Materials Letters*, **2002**, 57, 807-811	3.3	21
110	Characteristics of proton conducting polymer electrolyte based on chitosan acetate complexed with CH3COONH4. *Journal of Polymer Science, Part B: Polymer Physics*, **2009**, 47, 549-554	2.6	20
109	High-performance bifunctional polarization switch chiral metamaterials by inverse design method. *Npj Computational Materials*, **2019**, 5,	10.9	19
108	Effect of donor doping in B sites on the electrocaloric effect of BaTi1□NbxO3 ceramics. *RSC Advances*, **2015**, 5, 71873-71877	3.7	19
107	The initial stage of atmospheric corrosion on interstitial free steel investigated by in situ SPM. *Corrosion Science*, **2013**, 70, 188-193	6.8	19
106	Shape demagnetization effect on layered magnetoelectric composites. *Science Bulletin*, **2008**, 53, 2124-2128	1.6	19
105	Distinct effects of Ce doping in A or B sites on the electrocaloric effect of BaTiO3 ceramics. *Journal of Alloys and Compounds*, **2017**, 724, 163-168	5.7	18

104	Dielectric and Ferroelectric Characteristics of Ba5NdFe1.5Nb8.5O30 Tungsten Bronze Ceramics. *Journal of the American Ceramic Society*, **2010**, 93, 3573-3576	3.8	18
103	A ferromagnetic ferroelectric cofired ceramic for hyperfrequency. *Journal of Applied Physics*, **2007**, 101, 083907	2.5	18
102	The Effect of Sr Substitution on Phase Formation and Magnetic Properties of Y-type Hexagonal Ferrite. *Journal of the American Ceramic Society*, **2005**, 88, 318-323	3.8	18
101	Elucidation of microwave absorption mechanisms in Co□a substituted Ba□r hexaferrites in X-band. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 14995-15005	2.1	17
100	Magnetodielectric Bi□Co□i substituted M-type hexaferrite with high and matching permeability and permittivity in very high frequency. *Materials Research Bulletin*, **2013**, 48, 3850-3853	5.1	17
99	Complex phase transitions and associated electrocaloric effects in different oriented PMN-30PT single crystals under multi-fields of electric field and temperature. *Acta Materialia*, **2020**, 182, 250-256	8.4	17
98	Large Room Temperature Electrocaloric Effect in KTa1□NbxO3 Single Crystal. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800515	2.5	17
97	Influence of microstructure features on electrocaloric effect in ferroelectric ceramics. *Ceramics International*, **2018**, 44, 8263-8269	5.1	16
96	Effect of electromagnetic environment on the dielectric resonance in the ferroelectric-ferromagnetic composite. *Applied Physics Letters*, **2006**, 89, 112907	3.4	15
95	Magnetic properties of non-stoichiometric Y-type hexaferrite. *Journal of Magnetism and Magnetic Materials*, **2002**, 250, 364-369	2.8	15
94	A Review of Graphene Plasmons and its Combination with Metasurface. *Journal of the Korean Ceramic Society*, **2017**, 54, 349-365	2.2	15
93	Giant Electrocaloric Effect and Ultrahigh Refrigeration Efficiency in Antiferroelectric Ceramics by Morphotropic Phase Boundary Design. *ACS Applied Materials & Interfaces*, **2020**, 12, 45005-45014	9.5	15
92	The microstructure and performance of solid-state hydrogen sensor using CH3COONH4-doped chitosan as electrolyte. *Journal of Applied Electrochemistry*, **2011**, 41, 183-187	2.6	14
91	Thickness dependence of electrocaloric effect in high-temperature sintered Ba0.8Sr0.2TiO3 ceramics. *Journal of Alloys and Compounds*, **2018**, 736, 57-61	5.7	14
90	Aluminum titanate-calcium dialuminate composites with low thermal expansion and high strength. *Journal of Alloys and Compounds*, **2016**, 656, 1-4	5.7	13
89	Realization of negative permittivity of Co2Z hexagonal ferrite and left-handed property of ferrite composite material. *Journal Physics D: Applied Physics*, **2009**, 42, 025403	3	13
88	Size and Stoichiometry Effect of FePt Bimetal Nanoparticle Catalyst for CO Oxidation: A DFT Study. *Journal of Physical Chemistry C*, **2020**, 124, 8706-8715	3.8	13
87	Equivalent energy level hybridization approach for high-performance metamaterials design. *Acta Materialia*, **2017**, 135, 144-149	8.4	12

86	Large electrocaloric effect near room temperature in lead□free Bi0.5Na0.5TiO3-based ergodic relaxor observed by differential scanning calorimetry. *Scripta Materialia*, **2019**, 171, 10-15	5.6	12
85	Effect of humidity on domain switching behaviors of BaTiO3 single crystal under sustained load. *Applied Surface Science*, **2008**, 254, 5594-5598	6.7	12
84	Effect of substitution on magnetization mechanism for Y-type hexagonal ferrite. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2003**, 103, 115-117	3.1	12
83	Porous aluminum titanate-strontium feldspar-mullite fiber composite ceramics with enhanced pore structures and mechanical properties. *Ceramics International*, **2018**, 44, 22686-22691	5.1	12
82	Hydrogen diffusion in □Fe under an applied 3-axis strain: A quantum manifestation. *International Journal of Hydrogen Energy*, **2015**, 40, 10340-10345	6.7	11
81	Effect of sintering temperature and oxygen atmosphere on electrocaloric effect of BaTiO3 ceramics. *European Physical Journal B*, **2015**, 88, 1	1.2	11
80	Effect of electric field orientation on ferroelectric phase transition and electrocaloric effect. *Acta Materialia*, **2020**, 191, 13-23	8.4	11
79	Low-fired Y-type hexagonal ferrite for hyper frequency applications. *Journal of Advanced Ceramics*, **2012**, 1, 100-109	10.7	11
78	The static and hyper-frequency magnetic properties of a ferromagnetic□ferroelectric composite. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 148-151	2.8	11
77	The effect of Bi substitution on phase formation and low temperature sintering of Y-type hexagonal ferrite. *Journal of Electroceramics*, **2008**, 21, 349-352	1.5	11
76	Boosting Photocatalytic Hydrogen Production via Interfacial Engineering on 2D Ultrathin Z-Scheme ZnIn 2 S 4 /g-C 3 N 4 Heterojunction. *Advanced Functional Materials*, **2022**, 32, 2111740	15.6	11
75	Water adsorption induced in-plane domain switching on BaTiO3 surface. *Journal of Applied Physics*, **2015**, 118, 094104	2.5	10
74	Composite diamond-DLC coated nanoprobe tips for wear resistance and adhesion reduction. *Surface and Coatings Technology*, **2012**, 206, 4099-4105	4.4	10
73	Characterization of a Y-type hexagonal ferrite-based frequency tunable microwave absorber. *International Journal of Minerals, Metallurgy and Materials*, **2012**, 19, 453-456	3.1	10
72	The magnetic and dielectric properties of multiferroic Sr-substituted Zn 2 -Y hexagonal ferrites. *Chinese Physics B*, **2008**, 17, 4652-4655	1.2	10
71	Room-Temperature Symmetric Giant Positive and Negative Electrocaloric Effect in PbMg0.5W0.5O3 Antiferroelectric Ceramic. *Advanced Functional Materials*, **2021**, 31, 2101176	15.6	10
70	Composition-induced non-ergodic□ergodic transition and electrocaloric evolution in Pb1□1.5x Lax Zr0.8 Ti0.2 O3 relaxor ferroelectric ceramics. *IET Nanodielectrics*, **2019**, 2, 123-128	2.8	10
69	Ultrahigh piezocatalytic capability in eco-friendly BaTiO nanosheets promoted by 2D morphology engineering. *Journal of Colloid and Interface Science*, **2021**, 596, 288-296	9.3	10

68	Electrocaloric effect in ferroelectric ceramics with point defects. *Applied Physics Letters*, **2019**, 114, 142901	3.4	9
67	Electrocaloric Refrigeration Cycles with Large Cooling Capacity in Barium Titanate Ceramics Near Room Temperature. *Energy Technology*, **2017**, 5, 703-707	3.5	9
66	Effects of Hydrogen and Chloride Ions on Automobile Interstitial-Free Steel Corrosion. *Corrosion*, **2014**, 70, 1024-1030	1.8	9
65	P(VDF-TrFE) nanorod assemblies with anisotropic piezoelectric properties investigated by piezoelectric response microscopy. *Journal of Applied Physics*, **2014**, 116, 066821	2.5	9
64	Characterization of coating probe with Ti-DLC for electrical scanning probe microscope. *Applied Surface Science*, **2011**, 257, 7238-7244	6.7	9
63	Left-handed material based on ferroelectric medium. *Optics Express*, **2007**, 15, 8284-9	3.3	9
62	Magnetic properties of composite Y-type hexagonal ferrites in a direct current magnetic field. *Journal of Applied Physics*, **2005**, 98, 063901	2.5	9
61	Atomic hydrogenation-induced paramagnetic-ferromagnetic transition in zinc ferrite. *Ceramics International*, **2016**, 42, 16882-16887	5.1	9
60	Engineering of g-CN-based photocatalysts to enhance hydrogen evolution. *Advances in Colloid and Interface Science*, **2021**, 295, 102488	14.3	9
59	In situ observation of the nanocrystal growth and their piezoelectric performance change in P(VDF-TrFE) films by hot stage piezoresponse force microscopy. *Journal of Applied Physics*, **2013**, 113, 187210	2.5	8
58	Left-handed behavior and low-loss passband in a ferromagnetic sandwich structure. *Applied Physics Letters*, **2009**, 95, 114104	3.4	8
57	Ferroelectric phase transition and low-temperature dielectric relaxations in Sr4(La1−xSmx)2Ti4Nb6O30 ceramics. *Journal of Applied Physics*, **2011**, 110, 114101	2.5	8
56	Phase coexistence and evolution in sol-gel derived BY-PT-PZ ceramics with significantly enhanced piezoelectricity and high temperature stability. *Journal of Materiomics*, **2019**, 5, 394-403	6.7	7
55	Ultra-low percolation threshold in ferrite-metal cofired ceramics brings both high permeability and high permittivity. *Scientific Reports*, **2015**, 5, 7580	4.9	7
54	Aluminum titanate based composite porous ceramics with both high porosity and mechanical strength prepared by a special two-step sintering method. *Journal of Alloys and Compounds*, **2021**, 853, 157193	5.7	7
53	Equivalent energy-level structures in stacked metamaterials. *Journal of Materials Chemistry C*, **2015**, 3, 11827-11832	7.1	6
52	The effect of cation substitution and non-stoichiometry on the sintering behavior and permeability of M-type barium hexaferrite. *Ceramics International*, **2014**, 40, 11199-11204	5.1	6
51	Conduction band discontinuity and electron confinement at the SixGe1−x/Ge interface. *Applied Physics Letters*, **2010**, 96, 213501	3.4	6

50	Preparation and characterization of nanocrystalline ZnS/ZnO doped silica inverse opals. *Journal of Electroceramics*, **2008**, 21, 374-377	1.5	6
49	Machine learning identified materials descriptors for ferroelectricity. *Acta Materialia*, **2021**, 209, 116815	8.4	6
48	The electrocaloric effect in intrinsic-acceptor-doped Ba(Ti,Ce)O3-(Ba,Ca)TiO3 ceramics. *Scripta Materialia*, **2020**, 174, 44-48	5.6	6
47	Fundamental aspects of the corrosion of N80 steel in a formation water system under high CO partial pressure at 100 °C.. *RSC Advances*, **2019**, 9, 11641-11648	3.7	5
46	Estimate of Thermodynamic Indirect Measurement on the Electrocaloric Effect. *Key Engineering Materials*, **2011**, 492, 164-167	0.4	5
45	Antireflection effect of SiO2 thin film on the pyramidal textured surface of monocrystalline silicon. *Optik*, **2015**, 126, 2643-2645	2.5	4
44	Bandstop Passive Filter Characteristics of Hexagonal Ferrite Composites at X-Band. *Journal of Electronic Materials*, **2019**, 48, 6189-6193	1.9	4
43	Microwave left-handed composite material made of slim ferrite rods and metallic wires. *Chinese Physics B*, **2009**, 18, 1653-1657	1.2	4
42	Realization and modulation of negative permeability using an array of hexaferrite rods. *Journal Physics D: Applied Physics*, **2009**, 42, 065416	3	4
41	The Electrocaloric Effect in BaTiO3 Thick Film Multilayer Structure at High Electric Field. *Key Engineering Materials*, **2012**, 512-515, 1304-1307	0.4	4
40	Ordered Ceramic Microstructures from Butterfly Bio-template. *Journal of the American Ceramic Society*, **2006**, 89, 060427083300014-???	3.8	4
39	Nonlinear magnetic properties of Mn-modified Ba/sub 3/Co/sub 2/Fe/sub 23/O/sub 41/ hexaferrite. *IEEE Transactions on Magnetics*, **2004**, 40, 1947-1951	2	4
38	Emergent Enhanced Electrocaloric Effect within Wide Temperature Span in Laminated Composite Ceramics. *Advanced Functional Materials*,2108182	15.6	4
37	First-principles calculation for hydrogen-doped hematite. *Wuli Xuebao/Acta Physica Sinica*, **2015**, 64, 116301	0.6	4
36	Perspective on antiferroelectrics for energy storage and conversion applications. *Chinese Chemical Letters*, **2021**, 32, 2097-2107	8.1	4
35	Ultrathin Hydrogen Diffusion Cloak. *Advanced Theory and Simulations*, **2018**, 1, 1700004	3.5	4
34	Influence of Phase Transitions on Electrostrictive and Piezoelectric Characteristics in PMN-30PT Single Crystals. *ACS Applied Materials & Interfaces*, **2021**, 13, 38467-38476	9.5	4
33	Large-Scale Modulation of Left-Handed Passband in Hybrid Graphene/Dielectric Metasurface. *Annalen Der Physik*, **2017**, 529, 1700125	2.6	3

32	Engineering soft magnetic properties by doping ions in low-fired M-type hexaferrite with Bi□Co□Ti substitution. *RSC Advances*, **2015**, 5, 91382-91388	3.7	3
31	Remarkably enhanced piezo-photocatalytic performance in BaTiO3/CuO heterostructures for organic pollutant degradation. *Journal of Advanced Ceramics*, **2022**, 11, 414-426	10.7	3
30	Scattering Cancellation by a Monolayer Cloak in Oxide Dispersion-Strengthened Alloys. *Advanced Functional Materials*, **2020**, 30, 2003270	15.6	3
29	Near-Room-Temperature Large Electrocaloric Effect in Barium Titanate Single Crystal Based on the Electric Field□Temperature Phase Diagram. *Physica Status Solidi - Rapid Research Letters*, **2021**, 15, 2100251	2.5	3
28	Investigation of significant magnetic transformation for hydrogenated ZnFe2O4 nanoparticles. *Journal of Materials Science*, **2020**, 55, 1464-1474	4.3	3
27	Memory effect in antiferroelectrics: A systematic analysis on various electric hysteresis loops. *Scripta Materialia*, **2021**, 191, 143-148	5.6	3
26	Insight into Metalized Interfaces in Nano Devices by Surface Analytical Techniques. *ACS Applied Materials & Interfaces*, **2015**, 7, 27351-6	9.5	2
25	Low loss and high refractive index in impedance-matched ferrite□silver co-fired ceramics. *Journal of Alloys and Compounds*, **2014**, 617, 797-799	5.7	2
24	The left-handed property of the composite structure of metallic wires in an anisotropy medium host. *Applied Physics Letters*, **2009**, 94, 094101	3.4	2
23	The Electrocaloric Effect of BaTiO3 Ceramics Using Hydrothermal Synthesized Nano-Sized Starting Powders. *Advanced Materials Research*, **2012**, 624, 138-141	0.5	2
22	Room-Temperature Giant Magnetoelectric Effect From Coils Cored With MnZn Ferrite. *IEEE Transactions on Magnetics*, **2008**, 44, 2127-2129	2	2
21	Dislocation Loops in Pressureless-Sintered Undoped BaTiO3 Ceramics. *Journal of the American Ceramic Society*, **2006**, 89, 060427083300085-???	3.8	2
20	Visible Achromatic Metalens Design Based on Artificial Neural Network. *Advanced Optical Materials*,2101842	8.4	2
19	Refractive index sensing by asymmetric dielectric gratings with both bound states in the continuum and guided mode resonances. *Optics Express*,	3.3	2
18	Broadband, High-Efficiency and Wide-Incident-Angle Anomalous Reflection in Groove Metagratings. *Annalen Der Physik*, **2021**, 533, 2100149	2.6	2
17	Electrocaloric effect in polycrystalline ferroelectrics and its measurement methods **2019**, 257-288		2
16	Accelerated discovery of high-performance piezocatalyst in BaTiO3-based ceramics via machine learning. *Nano Energy*, **2022**, 97, 107218	17.1	2
15	In situ observation of correlations between domain switching and crack propagation in BaTiO3 single crystals under coupling of mechanical and electric loads. *Scripta Materialia*, **2014**, 70, 47-50	5.6	1

14	Porous Aluminum Titanate Ceramics Prepared Using Graphite as Pore Former. *Advanced Materials Research*, **2014**, 960-961, 189-192	0.5	1
13	Left-handed properties of a composite structure with metallic wires in a homogeneous Lorentz medium. *International Journal of Minerals, Metallurgy and Materials*, **2012**, 19, 159-164	3.1	1
12	The Left-Handed Properties of the Composite Medium Composed of Ferrite Cubes Array and Copper Net. *Key Engineering Materials*, **2010**, 434-435, 343-345	0.4	1
11	Experiment and first principles calculation of hydrogen-induced reduction of Young's modulus of BaTiO3single crystal. *Journal Physics D: Applied Physics*, **2008**, 41, 092004	3	1
10	Monolithic III-V/Si integration **2008**,		1
9	Preparation and Magnetic Properties of Y-Type Ferroxplana by Sol-Gel Method. *Key Engineering Materials*, **2007**, 280-283, 477-480	0.4	1
8	Research on the tunable left-handed properties of split-ring resonator with ferrite substrate. *Wuli Xuebao/Acta Physica Sinica*, **2008**, 57, 4189	0.6	1
7	Electric hysteresis and validity of indirect electrocaloric characterization in antiferroelectric ceramics. *Scripta Materialia*, **2022**, 216, 114763	5.6	1
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