

Yang Bai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

175
papers

4,573
citations

37
h-index

59
g-index

182
ext. papers

5,406
ext. citations

4.8
avg, IF

5.73
L-index

#	Paper	IF	Citations
175	Remarkably enhanced piezo-photocatalytic performance in BaTiO ₃ /CuO heterostructures for organic pollutant degradation. <i>Journal of Advanced Ceramics</i> , 2022 , 11, 414-426	10.7	3
174	Large electrocaloric strength in Bi(Mg _{0.5} Ti _{0.5})O ₃ -modified tetragonal-structured Bi _{0.5} Na _{0.5} TiO ₃ /BaTiO ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2022 , 889, 161601	5.7	
173	Effects of thermal and electrical hysteresis on phase transitions and electrocaloric effect in ferroelectrics: A computational study. <i>Acta Materialia</i> , 2022 , 228, 117784	8.4	
172	Accelerated discovery of high-performance piezocatalyst in BaTiO ₃ -based ceramics via machine learning. <i>Nano Energy</i> , 2022 , 97, 107218	17.1	2
171	Boosting Photocatalytic Hydrogen Production via Interfacial Engineering on 2D Ultrathin Z-Scheme ZnIn ₂ S ₄ /g-C ₃ N ₄ Heterojunction. <i>Advanced Functional Materials</i> , 2022 , 32, 2111740	15.6	11
170	Role of phase, grain morphology and impedance properties in tailoring of Barium Strontium hexaferrites for microwave absorber/attenuator applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022 , 281, 115679	3.1	0
169	Electric hysteresis and validity of indirect electrocaloric characterization in antiferroelectric ceramics. <i>Scripta Materialia</i> , 2022 , 216, 114763	5.6	1
168	Optimizing Electrocaloric Effect in Barium Titanate-based Room Temperature Ferroelectrics: Combining Landau Theory, Machine Learning and Synthesis. <i>Acta Materialia</i> , 2022 , 235, 118054	8.4	0
167	Machine learning identified materials descriptors for ferroelectricity. <i>Acta Materialia</i> , 2021 , 209, 1168158.4	6	
166	Broadband, High-Efficiency and Wide-Incident-Angle Anomalous Reflection in Groove Metagratings. <i>Annalen Der Physik</i> , 2021 , 533, 2100149	2.6	2
165	Room-Temperature Symmetric Giant Positive and Negative Electrocaloric Effect in PbMg _{0.5} W _{0.5} O ₃ Antiferroelectric Ceramic. <i>Advanced Functional Materials</i> , 2021 , 31, 2101176	15.6	10
164	Near-Room-Temperature Large Electrocaloric Effect in Barium Titanate Single Crystal Based on the Electric Field-Temperature Phase Diagram. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100251.5	2.5	3
163	Memory effect in antiferroelectrics: A systematic analysis on various electric hysteresis loops. <i>Scripta Materialia</i> , 2021 , 191, 143-148	5.6	3
162	Perspective on antiferroelectrics for energy storage and conversion applications. <i>Chinese Chemical Letters</i> , 2021 , 32, 2097-2107	8.1	4
161	Aluminum titanate based composite porous ceramics with both high porosity and mechanical strength prepared by a special two-step sintering method. <i>Journal of Alloys and Compounds</i> , 2021 , 853, 157193	5.7	7
160	Ultrahigh piezocatalytic capability in eco-friendly BaTiO nanosheets promoted by 2D morphology engineering. <i>Journal of Colloid and Interface Science</i> , 2021 , 596, 288-296	9.3	10
159	Influence of Phase Transitions on Electrostrictive and Piezoelectric Characteristics in PMN-30PT Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38467-38476	9.5	4

158	Engineering of g-CN-based photocatalysts to enhance hydrogen evolution. <i>Advances in Colloid and Interface Science</i> , 2021 , 295, 102488	14.3	9
157	Effect of electric field orientation on ferroelectric phase transition and electrocaloric effect. <i>Acta Materialia</i> , 2020 , 191, 13-23	8.4	11
156	Complex phase transitions and associated electrocaloric effects in different oriented PMN-30PT single crystals under multi-fields of electric field and temperature. <i>Acta Materialia</i> , 2020 , 182, 250-256	8.4	17
155	Phase prediction in high entropy alloys with a rational selection of materials descriptors and machine learning models. <i>Acta Materialia</i> , 2020 , 185, 528-539	8.4	99
154	Scattering Cancellation by a Monolayer Cloak in Oxide Dispersion-Strengthened Alloys. <i>Advanced Functional Materials</i> , 2020 , 30, 2003270	15.6	3
153	Giant Electrocaloric Effect and Ultrahigh Refrigeration Efficiency in Antiferroelectric Ceramics by Morphotropic Phase Boundary Design. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45005-45014	9.5	15
152	Investigation of significant magnetic transformation for hydrogenated ZnFe ₂ O ₄ nanoparticles. <i>Journal of Materials Science</i> , 2020 , 55, 1464-1474	4.3	3
151	The electrocaloric effect in intrinsic-acceptor-doped Ba(Ti,Ce)O ₃ -(Ba,Ca)TiO ₃ ceramics. <i>Scripta Materialia</i> , 2020 , 174, 44-48	5.6	6
150	Size and Stoichiometry Effect of FePt Bimetal Nanoparticle Catalyst for CO Oxidation: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8706-8715	3.8	13
149	High-performance bifunctional polarization switch chiral metamaterials by inverse design method. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	19
148	Large electrocaloric effect over a wide temperature range in BaTiO ₃ -modified lead-free ceramics. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1353-1358	7.1	41
147	Large electrocaloric effect near room temperature in lead-free Bi _{0.5} Na _{0.5} TiO ₃ -based ergodic relaxor observed by differential scanning calorimetry. <i>Scripta Materialia</i> , 2019 , 171, 10-15	5.6	12
146	Phase coexistence and evolution in sol-gel derived BY-PT-PZ ceramics with significantly enhanced piezoelectricity and high temperature stability. <i>Journal of Materiomics</i> , 2019 , 5, 394-403	6.7	7
145	Fundamental aspects of the corrosion of N80 steel in a formation water system under high CO partial pressure at 100 °C. <i>RSC Advances</i> , 2019 , 9, 11641-11648	3.7	5
144	Machine learning assisted design of high entropy alloys with desired property. <i>Acta Materialia</i> , 2019 , 170, 109-117	8.4	198
143	Electrocaloric effect in ferroelectric ceramics with point defects. <i>Applied Physics Letters</i> , 2019 , 114, 142991	3.1	9
142	Effects of Long- and Short-Range Ferroelectric Order on the Electrocaloric Effect in Relaxor Ferroelectric Ceramics. <i>Physical Review Applied</i> , 2019 , 11,	4.3	36
141	Bandstop Passive Filter Characteristics of Hexagonal Ferrite Composites at X-Band. <i>Journal of Electronic Materials</i> , 2019 , 48, 6189-6193	1.9	4

140	Composition-induced non-ergodic \rightarrow ergodic transition and electrocaloric evolution in Pb _{1-x} LaxZr _{0.8} Ti _{0.2} O ₃ relaxor ferroelectric ceramics. <i>IET Nanodielectrics</i> , 2019 , 2, 123-128	2.8	10
139	Electrocaloric effect in polycrystalline ferroelectrics and its measurement methods 2019 , 257-288		2
138	Hydroxyl decorated g-C ₃ N ₄ nanoparticles with narrowed bandgap for high efficient photocatalyst design. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 262-271	21.8	68
137	Large Room Temperature Electrocaloric Effect in KTa _{1-x} NbxO ₃ Single Crystal. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1800515	2.5	17
136	Influence of microstructure features on electrocaloric effect in ferroelectric ceramics. <i>Ceramics International</i> , 2018 , 44, 8263-8269	5.1	16
135	Revealing the real high temperature performance and depolarization characteristics of piezoelectric ceramics by combined in situ techniques. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1433-1444	7.1	29
134	Elucidation of microwave absorption mechanisms in Co ²⁺ substituted Ba ²⁺ hexaferrites in X-band. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 14995-15005	2.1	17
133	Ultrathin Hydrogen Diffusion Cloak. <i>Advanced Theory and Simulations</i> , 2018 , 1, 1700004	3.5	4
132	Thickness dependence of electrocaloric effect in high-temperature sintered Ba _{0.8} Sr _{0.2} TiO ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2018 , 736, 57-61	5.7	14
131	Temperature independence of piezoelectric properties for high-performance BiFeO ₃ -BaTiO ₃ lead-free piezoelectric ceramics up to 300 °C. <i>RSC Advances</i> , 2018 , 8, 35794-35801	3.7	25
130	Porous aluminum titanate-strontium feldspar-mullite fiber composite ceramics with enhanced pore structures and mechanical properties. <i>Ceramics International</i> , 2018 , 44, 22686-22691	5.1	12
129	Equivalent energy level hybridization approach for high-performance metamaterials design. <i>Acta Materialia</i> , 2017 , 135, 144-149	8.4	12
128	Flexible control of positive and negative electrocaloric effects under multiple fields for a giant improvement of cooling capacity. <i>Applied Physics Letters</i> , 2017 , 111, 093901	3.4	27
127	Large-Scale Modulation of Left-Handed Passband in Hybrid Graphene/Dielectric Metasurface. <i>Annalen Der Physik</i> , 2017 , 529, 1700125	2.6	3
126	Large electrocaloric efficiency over a broad temperature span in lead-free BaTiO ₃ -based ceramics near room temperature. <i>Applied Physics Letters</i> , 2017 , 111, 202902	3.4	23
125	Distinct effects of Ce doping in A or B sites on the electrocaloric effect of BaTiO ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2017 , 724, 163-168	5.7	18
124	Electrocaloric Refrigeration Cycles with Large Cooling Capacity in Barium Titanate Ceramics Near Room Temperature. <i>Energy Technology</i> , 2017 , 5, 703-707	3.5	9
123	A Review of Graphene Plasmons and its Combination with Metasurface. <i>Journal of the Korean Ceramic Society</i> , 2017 , 54, 349-365	2.2	15

122	Fully Controllable Pancharatnam-Berry Metasurface Array with High Conversion Efficiency and Broad Bandwidth. <i>Scientific Reports</i> , 2016 , 6, 34819	4.9	34
121	Large room-temperature electrocaloric effect in lead-free BaHf _x Ti _{1-x} O ₃ ceramics under low electric field. <i>Acta Materialia</i> , 2016 , 115, 58-67	8.4	121
120	Effect of grain refinement on hydrogen embrittlement behaviors of high-Mn TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 651, 935-944	5.3	77
119	A systematic modification of the large electrocaloric effect within a broad temperature range in rare-earth doped BaTiO ₃ ceramics. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1842-1849	7.1	76
118	Etching anisotropy mechanisms lead to morphology-controlled silicon nanoporous structures by metal assisted chemical etching. <i>Nanoscale</i> , 2016 , 8, 3085-92	7.7	25
117	Aluminum titanate-calcium dialuminate composites with low thermal expansion and high strength. <i>Journal of Alloys and Compounds</i> , 2016 , 656, 1-4	5.7	13
116	Direct and indirect characterization of electrocaloric effect in (Na,K)NbO ₃ based lead-free ceramics. <i>Applied Physics Letters</i> , 2016 , 109, 162902	3.4	41
115	Atomic hydrogenation-induced paramagnetic-ferromagnetic transition in zinc ferrite. <i>Ceramics International</i> , 2016 , 42, 16882-16887	5.1	9
114	Hydrogen diffusion in β -Fe under an applied 3-axis strain: A quantum manifestation. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10340-10345	6.7	11
113	Ultra-low percolation threshold in ferrite-metal cofired ceramics brings both high permeability and high permittivity. <i>Scientific Reports</i> , 2015 , 5, 7580	4.9	7
112	Equivalent energy-level structures in stacked metamaterials. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11827-11832	7.1	6
111	Antireflection effect of SiO ₂ thin film on the pyramidal textured surface of monocrystalline silicon. <i>Optik</i> , 2015 , 126, 2643-2645	2.5	4
110	Effect of donor doping in B sites on the electrocaloric effect of BaTi _{1-x} Nb _x O ₃ ceramics. <i>RSC Advances</i> , 2015 , 5, 71873-71877	3.7	19
109	Water adsorption induced in-plane domain switching on BaTiO ₃ surface. <i>Journal of Applied Physics</i> , 2015 , 118, 094104	2.5	10
108	Effect of sintering temperature and oxygen atmosphere on electrocaloric effect of BaTiO ₃ ceramics. <i>European Physical Journal B</i> , 2015 , 88, 1	1.2	11
107	Control multiple electrocaloric effect peak in Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ by phase composition and crystal orientation. <i>Applied Physics Letters</i> , 2015 , 107, 192904	3.4	29
106	Hydrogen Impurity Defects in Rutile TiO ₂ . <i>Scientific Reports</i> , 2015 , 5, 17634	4.9	37
105	Engineering soft magnetic properties by doping ions in low-fired M-type hexaferrite with Bi ₂ CoTi substitution. <i>RSC Advances</i> , 2015 , 5, 91382-91388	3.7	3

104	Insight into Metalized Interfaces in Nano Devices by Surface Analytical Techniques. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27351-6	9.5	2
103	Structural, magnetic and microwave absorption properties of doped Ba-hexaferrite nanoparticles synthesized by co-precipitation method. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 381, 1-9	2.8	139
102	First-principles calculation for hydrogen-doped hematite. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015 , 64, 116301	3.0	4
101	In situ observation of correlations between domain switching and crack propagation in BaTiO ₃ single crystals under coupling of mechanical and electric loads. <i>Scripta Materialia</i> , 2014 , 70, 47-50	5.6	1
100	Effects of Hydrogen and Chloride Ions on Automobile Interstitial-Free Steel Corrosion. <i>Corrosion</i> , 2014 , 70, 1024-1030	1.8	9
99	Enhanced Strength and Ductility in an Ultrafine-Grained Fe-22Mn-0.6C Austenitic Steel Having Fully Recrystallized Structure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 5300-5304	2.3	32
98	Low loss and high refractive index in impedance-matched ferrite-silver co-fired ceramics. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 797-799	5.7	2
97	Porous Aluminum Titanate Ceramics Prepared Using Graphite as Pore Former. <i>Advanced Materials Research</i> , 2014 , 960-961, 189-192	0.5	1
96	Band gap engineering of TiO ₂ through hydrogenation. <i>Applied Physics Letters</i> , 2014 , 105, 202114	3.4	30
95	P(VDF-TrFE) nanorod assemblies with anisotropic piezoelectric properties investigated by piezoelectric response microscopy. <i>Journal of Applied Physics</i> , 2014 , 116, 066821	2.5	9
94	The effect of cation substitution and non-stoichiometry on the sintering behavior and permeability of M-type barium hexaferrite. <i>Ceramics International</i> , 2014 , 40, 11199-11204	5.1	6
93	The initial stage of atmospheric corrosion on interstitial free steel investigated by in situ SPM. <i>Corrosion Science</i> , 2013 , 70, 188-193	6.8	19
92	Both high reliability and giant electrocaloric strength in BaTiO ₃ ceramics. <i>Scientific Reports</i> , 2013 , 3, 2895	4.9	90
91	Combined effects of diffuse phase transition and microstructure on the electrocaloric effect in Ba _{1-x} Sr _x TiO ₃ ceramics. <i>Applied Physics Letters</i> , 2013 , 103, 162902	3.4	68
90	Cobalt doped LaSrTiO ₃ as an anode catalyst: effect of Co nanoparticle precipitation on SOFCs operating on H ₂ S-containing hydrogen. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9689	13	49
89	Magnetic properties of Co ²⁺ substituted barium hexaferrite. <i>Journal of Alloys and Compounds</i> , 2013 , 546, 234-238	5.7	77
88	Magnetodielectric Bi _{1-x} Co _x substituted M-type hexaferrite with high and matching permeability and permittivity in very high frequency. <i>Materials Research Bulletin</i> , 2013 , 48, 3850-3853	5.1	17
87	Phase formation, sintering behavior and magnetic property of Bi _{1-x} Co _x substituted M-type barium hexaferrite. <i>Journal of Alloys and Compounds</i> , 2013 , 556, 20-25	5.7	27

86	Effect of hydrogen on pitting susceptibility of 2507 duplex stainless steel. <i>Corrosion Science</i> , 2013 , 70, 140-144	6.8	39
85	Optimized electrocaloric refrigeration capacity in lead-free $(1-x)\text{BaZr}_{0.2}\text{Ti}_{0.8}\text{O}_3\text{-xBa}_{0.7}\text{Ca}_{0.3}\text{TiO}_3$ ceramics. <i>Applied Physics Letters</i> , 2013 , 102, 252904	3.4	113
84	In situ observation of the nanocrystal growth and their piezoelectric performance change in P(VDF-TrFE) films by hot stage piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2013 , 113, 187210	2.5	8
83	Composite diamond-DLC coated nanoprobe tips for wear resistance and adhesion reduction. <i>Surface and Coatings Technology</i> , 2012 , 206, 4099-4105	4.4	10
82	The twice ferromagnetic resonance in hexagonal ferrite single rod and paired rods. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 563-565	2.3	
81	Low-fired Y-type hexagonal ferrite for hyper frequency applications. <i>Journal of Advanced Ceramics</i> , 2012 , 1, 100-109	10.7	11
80	Water adsorption behavior on metal surfaces and its influence on surface potential studied by in situ SPM. <i>Applied Surface Science</i> , 2012 , 258, 9087-9091	6.7	28
79	Annealing effects on the microstructure and magnetic domain structures of duplex stainless steel studied by in situ technique. <i>Applied Surface Science</i> , 2012 , 259, 213-218	6.7	22
78	The mechanism of hydrogen-induced pitting corrosion in duplex stainless steel studied by SKPFM. <i>Corrosion Science</i> , 2012 , 60, 76-81	6.8	85
77	Entropy-change measurement of electrocaloric effect of BaTiO ₃ single crystal. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 941-944	1.6	75
76	Left-handed properties of a composite structure with metallic wires in a homogeneous Lorentz medium. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012 , 19, 159-164	3.1	1
75	Characterization of a Y-type hexagonal ferrite-based frequency tunable microwave absorber. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012 , 19, 453-456	3.1	10
74	The Electrocaloric Effect in BaTiO ₃ Thick Film Multilayer Structure at High Electric Field. <i>Key Engineering Materials</i> , 2012 , 512-515, 1304-1307	0.4	4
73	The electrocaloric effect around the orthorhombic- tetragonal first-order phase transition in BaTiO ₃ . <i>AIP Advances</i> , 2012 , 2, 022162	1.5	33
72	The Electrocaloric Effect of BaTiO ₃ Ceramics Using Hydrothermal Synthesized Nano-Sized Starting Powders. <i>Advanced Materials Research</i> , 2012 , 624, 138-141	0.5	2
71	Electric field and surface charge effects on ferroelectric domain dynamics in BaTiO ₃ single crystal. <i>Physical Review B</i> , 2011 , 84,	3.3	21
70	The giant electrocaloric effect and high effective cooling power near room temperature for BaTiO ₃ thick film. <i>Journal of Applied Physics</i> , 2011 , 110, 094103	2.5	111
69	Abnormal electrocaloric effect of Na _{0.5} Bi _{0.5} TiO ₃ BaTiO ₃ lead-free ferroelectric ceramics above room temperature. <i>Materials Research Bulletin</i> , 2011 , 46, 1866-1869	5.1	200

68	The microstructure and performance of solid-state hydrogen sensor using CH ₃ COONH ₄ -doped chitosan as electrolyte. <i>Journal of Applied Electrochemistry</i> , 2011 , 41, 183-187	2.6	14
67	Single-negative properties of Ba ₂ Co _{1.8} Cu _{0.2} Fe ₁₂ O ₂₂ and Ba ₃ Co ₂ Fe _{23.4} Zn _{0.6} O ₄₁ hexagonal ferrites. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2011 , 18, 683-685	3.1	
66	Characterization of coating probe with Ti-DLC for electrical scanning probe microscope. <i>Applied Surface Science</i> , 2011 , 257, 7238-7244	6.7	9
65	Humidity effects on (001) BaTiO ₃ single crystal surface water adsorption. <i>Applied Physics Letters</i> , 2011 , 98, 062905	3.4	32
64	Ferroelectric phase transition and low-temperature dielectric relaxations in Sr ₄ (La _{1-x} Sm _x) ₂ Ti ₄ Nb ₆ O ₃₀ ceramics. <i>Journal of Applied Physics</i> , 2011 , 110, 114101	2.5	8
63	Estimate of Thermodynamic Indirect Measurement on the Electrocaloric Effect. <i>Key Engineering Materials</i> , 2011 , 492, 164-167	0.4	5
62	Dielectric and Ferroelectric Characteristics of Ba ₅ NdFe _{1.5} Nb _{8.5} O ₃₀ Tungsten Bronze Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3573-3576	3.8	18
61	The Left-Handed Properties of the Composite Medium Composed of Ferrite Cubes Array and Copper Net. <i>Key Engineering Materials</i> , 2010 , 434-435, 343-345	0.4	1
60	Direct measurement of giant electrocaloric effect in BaTiO ₃ multilayer thick film structure beyond theoretical prediction. <i>Applied Physics Letters</i> , 2010 , 96, 192902	3.4	147
59	Kinetic electrocaloric effect and giant net cooling of lead-free ferroelectric refrigerants. <i>Journal of Applied Physics</i> , 2010 , 108, 104102	2.5	39
58	Conduction band discontinuity and electron confinement at the SixGe _{1-x} /Ge interface. <i>Applied Physics Letters</i> , 2010 , 96, 213501	3.4	6
57	Synthesis and performance of proton conducting chitosan/NH ₄ Cl electrolyte. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 260-266	2.6	30
56	The structure and electric characters of proton-conducting chitosan membranes with various ammonium salts as complexant. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 880-885	2.6	34
55	Left-handed behavior and low-loss passband in a ferromagnetic sandwich structure. <i>Applied Physics Letters</i> , 2009 , 95, 114104	3.4	8
54	The left-handed property of the composite structure of metallic wires in an anisotropy medium host. <i>Applied Physics Letters</i> , 2009 , 94, 094101	3.4	2
53	Realization of negative permittivity of Co ₂ Z hexagonal ferrite and left-handed property of ferrite composite material. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 025403	3	13
52	Microwave left-handed composite material made of slim ferrite rods and metallic wires. <i>Chinese Physics B</i> , 2009 , 18, 1653-1657	1.2	4
51	Realization and modulation of negative permeability using an array of hexaferrite rods. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 065416	3	4

50	High frequency magnetic mechanism of Ni-substituted Co ₂ Z hexagonal ferrite. <i>Materials Research Bulletin</i> , 2009 , 44, 898-900	5.1	24
49	Hysteresis analysis of Co _{1-x} Ni _x substituted M-type Ba _{1-x} Bi _x hexagonal ferrite. <i>Materials Letters</i> , 2009 , 63, 1921-1924	5.1	79
48	Characteristics of proton conducting polymer electrolyte based on chitosan acetate complexed with CH ₃ COONH ₄ . <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 549-554	2.6	20
47	The static and hyper-frequency magnetic properties of a ferromagnetic/ferroelectric composite. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 148-151	2.8	11
46	Effect of Mn doping on physical properties of Y-type hexagonal ferrite. <i>Journal of Alloys and Compounds</i> , 2009 , 473, 505-508	5.7	40
45	Room-Temperature Giant Magnetoelectric Effect From Coils Cored With MnZn Ferrite. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2127-2129	2	2
44	Microstructure, hysteresis and microwave absorption analysis of Ba _{1-x} Sr _x Fe ₁₂ O ₁₉ ferrite. <i>Materials Chemistry and Physics</i> , 2008 , 111, 225-231	4.4	25
43	Static magnetic properties of Co and Ru substituted Ba _{1-x} Bi _x ferrite. <i>Materials Research Bulletin</i> , 2008 , 43, 176-184	5.1	79
42	Wideband magnetoelectric measurement system with the application of a virtual multi-channel lock-in amplifier. <i>Measurement Science and Technology</i> , 2008 , 19, 045702	2	35
41	Experimental demonstration of tunable negative phase velocity and negative refraction in a ferromagnetic/ferroelectric composite metamaterial. <i>Applied Physics Letters</i> , 2008 , 93, 201106	3.4	21
40	The physic properties of Bi _{1-x} Zn _x codoped Y-type hexagonal ferrite. <i>Journal of Alloys and Compounds</i> , 2008 , 450, 412-416	5.7	36
39	The effect of Co and Zr substitution on dc magnetic properties of Ba _{1-x} Bi _x ferrite. <i>Journal of Alloys and Compounds</i> , 2008 , 464, 429-433	5.7	46
38	Experiment and first principles calculation of hydrogen-induced reduction of Young's modulus of BaTiO ₃ single crystal. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 092004	3	1
37	Ni _{1-x} Bi _x Ti _{1-x} Ni _x trilayered magnetoelectric composites synthesized by electro-deposition. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 025203	1.8	38
36	The magnetic and dielectric properties of multiferroic Sr-substituted Zn ₂ -Y hexagonal ferrites. <i>Chinese Physics B</i> , 2008 , 17, 4652-4655	1.2	10
35	Direct observation of two 90° steps of 180° domain switching in BaTiO ₃ single crystal under an antiparallel electric field. <i>Applied Physics Letters</i> , 2008 , 93, 152905	3.4	39
34	Monolithic III-V/Si integration 2008 ,		1
33	Giant magnetoelectric effect in Ni _{1-x} Bi _x zirconium titanate cylindrical structure. <i>Applied Physics Letters</i> , 2008 , 92, 052904	3.4	71

32	Magnetoelectric effect in a Ni _{0.2} Zn _{0.8} Ti _{0.2} Ni _{0.8} cylindrical layered composite synthesized by electro-deposition. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 022002	3	35
31	Effect of humidity on domain switching behaviors of BaTiO ₃ single crystal under sustained load. <i>Applied Surface Science</i> , 2008 , 254, 5594-5598	6.7	12
30	The effect of Bi substitution on phase formation and low temperature sintering of Y-type hexagonal ferrite. <i>Journal of Electroceramics</i> , 2008 , 21, 349-352	1.5	11
29	Preparation and characterization of nanocrystalline ZnS/ZnO doped silica inverse opals. <i>Journal of Electroceramics</i> , 2008 , 21, 374-377	1.5	6
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