

Bin Peng

List of Publications by Year in descending order

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71
papers

1,793
citations

279798

23
h-index

289244

40
g-index

76
all docs

76
docs citations

76
times ranked

2078
citing authors

#	ARTICLE	IF	CITATIONS
1	Super-elastic ferroelectric single-crystal membrane with continuous electric dipole rotation. Science, 2019, 366, 475-479.	12.6	272
2	Recent development and status of magnetoelectric materials and devices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 3018-3025.	2.1	106
3	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
4	Large enhancement of the recoverable energy storage density and piezoelectric response in relaxor-ferroelectric capacitors by utilizing the seeding layers engineering. Applied Physics Letters, 2015, 106, .	3.3	77
5	Phase transition enhanced superior elasticity in freestanding single-crystalline multiferroic BiFeO ₃ membranes. Science Advances, 2020, 6, .	10.3	73
6	Quantitative Determination on Ionic "Liquid" Gating Control of Interfacial Magnetism. Advanced Materials, 2017, 29, 1606478.	21.0	72
7	Evaluation of domain wall motion during polymorphic phase transition in (K, Na)NbO ₃ -based piezoelectric ceramics by nonlinear response measurements. Journal of Applied Physics, 2011, 109, .	2.5	56
8	Improvement of the recoverable energy storage density and efficiency by utilizing the linear dielectric response in ferroelectric capacitors. Applied Physics Letters, 2014, 105, .	3.3	56
9	High "Energy" Storage Density Capacitors of Bi(Ni _{1/2} Ti _{1/2})O ₃ Thin Films with Good Temperature Stability. Journal of the American Ceramic Society, 2013, 96, 2061-2064.	3.8	55
10	Low-Voltage Control of (Co/Pt) _x Perpendicular Magnetic Anisotropy Heterostructure for Flexible Spintronics. ACS Nano, 2018, 12, 7167-7173.	14.6	53
11	Ionic Gel Modulation of RKKY Interactions in Synthetic Anti-Ferromagnetic Nanostructures for Low Power Wearable Spintronic Devices. Advanced Materials, 2018, 30, e1800449.	21.0	49
12	Ionic Liquid Gating Control of Spin Reorientation Transition and Switching of Perpendicular Magnetic Anisotropy. Advanced Materials, 2018, 30, e1801639.	21.0	47
13	Periodic Wrinkle "Patterned Single-Crystalline Ferroelectric Oxide Membranes with Enhanced Piezoelectricity. Advanced Materials, 2020, 32, e2004477.	21.0	47
14	Bi(Ni _{1/2} Zr _{1/2})O ₃ -PbTiO ₃ relaxor-ferroelectric films for piezoelectric energy harvesting and electrostatic storage. Applied Physics Letters, 2014, 104, .	3.3	41
15	Modulation of Spin Dynamics via Voltage Control of Spin-Lattice Coupling in Multiferroics. Advanced Functional Materials, 2017, 27, 1605598.	14.9	40
16	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
17	Voltage Control of Perpendicular Magnetic Anisotropy in Multiferroic $\text{Co/Pt/Tj ETQq1 1 0.784314 rgB}$	3.8	33
18	Giant tunable spin Hall angle in sputtered Bi ₂ Se ₃ controlled by an electric field. Nature Communications, 2022, 13, 1650.	12.8	33

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19	Microwave Dielectric Properties and Thermally Stimulated Depolarization Currents of MgF ₂ -Doped Diopside Ceramics. Journal of the American Ceramic Society, 2014, 97, 3537-3543.	3.8	32
20	Highly (100)-Oriented Bi(Ni _{1/2} Hf _{1/2})O ₃ -PbTiO ₃ Relaxor-Ferroelectric Films for Integrated Piezoelectric Energy Harvesting and Storage System. Journal of the American Ceramic Society, 2015, 98, 2968-2971.	3.8	32
21	Temperature-dependent dielectric properties, thermally-stimulated relaxations and defect-property correlations of TiO ₂ ceramics for wireless passive temperature sensing. Journal of the European Ceramic Society, 2016, 36, 1923-1930.	5.7	28
22	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
23	Polarization Response and Thermally Stimulated Depolarization Current of BaTiO ₃ -based Y5V Ceramic Multilayer Capacitors. Journal of the American Ceramic Society, 2014, 97, 2921-2927.	3.8	23
24	Microwave Dielectric Properties and Thermally Stimulated Depolarization Currents Study of (1-x)Ba _{0.6} Sr _{0.4} Bi ₂ Ceramics. Journal of the American Ceramic Society, 2014, 97, 3170-3176.	3.8	23
25	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
26	Multiferroic heterostructures of Fe ₃ O ₄ /PMN-PT prepared by atomic layer deposition for enhanced interfacial magnetoelectric couplings. Applied Physics Letters, 2017, 110, .	3.3	21
27	Voltage-Impulse-Induced Nonvolatile Control of Inductance in Tunable Magnetoelectric Inductors. Physical Review Applied, 2017, 7, .	3.8	19
28	Highly Sensitive Magnetic Sensor Based on Anisotropic Magnetoresistance Effect. IEEE Transactions on Magnetics, 2018, 54, 1-3.	2.1	19
29	Domain patterns and super-elasticity of freestanding BiFeO ₃ membranes via phase-field simulations. Acta Materialia, 2021, 208, 116689.	7.9	18
30	Low-Voltage-Manipulating Spin Dynamics of Flexible Fe ₃ O ₄ Films through Ionic Gel Gating for Wearable Devices. ACS Applied Materials & Interfaces, 2019, 11, 21727-21733.	8.0	17
31	Voltage Control of Magnetic Anisotropy through Ionic Gel Gating for Flexible Spintronics. ACS Applied Materials & Interfaces, 2018, 10, 29750-29756.	8.0	16
32	Sunlight Control of Interfacial Magnetism for Solar Driven Spintronic Applications. Advanced Science, 2019, 6, 1901994.	11.2	16
33	Low-damping flexible Y ₃ Fe ₅ O ₁₂ thin films for tunable RF/microwave processors. Materials Horizons, 2020, 7, 1558-1565.	3.8	16
34	Low-damping flexible Y ₃ Fe ₅ O ₁₂ thin films for tunable RF/microwave processors. Materials Horizons, 2020, 7, 1558-1565.	12.2	16
35	Magnetic and electrical properties of Z-type hexaferrites sintered in different atmospheres. Materials Research Bulletin, 2015, 65, 238-242.	5.2	15
36	Effects of thermal anneal temperature on electrical properties and energy-storage density of Bi(Ni _{1/2} Ti _{1/2})O ₃ -PbTiO ₃ thin films. Ceramics International, 2015, 41, S206-S212.	4.8	15

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37	Controlled Phase and Tunable Magnetism in Ordered Iron Oxide Nanotube Arrays Prepared by Atomic Layer Deposition. <i>Scientific Reports</i> , 2016, 6, 18401.	3.3	14
38	Advances in Magnetism Epitaxial Multiferroic Heterostructures and Applications. <i>IEEE Transactions on Magnetism</i> , 2017, 53, 1-16.	2.1	13
39	Ionic Modulation of Interfacial Magnetism in Light Metal/Ferromagnetic Insulator Layered Nanostructures. <i>Advanced Functional Materials</i> , 2019, 29, 1805592.	14.9	12
40	Self-Assembled Epitaxial Ferroelectric Oxide Nanospring with Super-Scalability. <i>Advanced Materials</i> , 2022, 34, e2108419.	21.0	11
41	Spin-orbital coupling induced four-fold anisotropy distribution during spin reorientation in ultrathin Co/Pt multilayers. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	10
42	Voltage control of ferromagnetic resonance. <i>Journal of Advanced Dielectrics</i> , 2016, 06, 1630005.	2.4	9
43	Flexible CoFeB/Silk Films for Biocompatible RF/Microwave Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51654-51661.	8.0	9
44	Quantitative domain engineering for realizing d36 piezoelectric coefficient in tetragonal ceramics. <i>Acta Materialia</i> , 2020, 188, 416-423.	7.9	9
45	Control of magnetic relaxation by electric-field-induced ferroelectric phase transition and inhomogeneous domain switching. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	8
46	Voltage Control of Perpendicular Exchange Bias in Multiferroic Heterostructures. <i>Advanced Electronic Materials</i> , 2019, 5, 1900192.	5.1	8
47	Effect of PbO excess on the microstructure, dielectric and piezoelectric properties, and energy-storage performance of $\text{Bi}(\text{Ni}_{1/2}\text{Ti}_{1/2})\text{O}_3$ – PbTiO_3 thin films. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 08NA02.	1.5	7
48	Voltage control of perpendicular magnetic anisotropy in $(\text{Co/Pt})_3/\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 multiferroic heterostructures at room temperature. <i>Applied Physics Letters</i> , 2018, 113, 142901.	3.3	7
49	Voltage control of ferromagnetic resonance and spin waves. <i>Chinese Physics B</i> , 2018, 27, 097505.	1.4	7
50	Vector analysis of electric-field-induced antiparallel magnetic domain evolution in ferromagnetic/ferroelectric heterostructures. <i>Journal of Advanced Ceramics</i> , 0, , 1.	17.4	7
51	Flexible Multiferroic Heterostructure Based on Freestanding Single-Crystalline BaTiO_3 Membranes for Spintronic Devices. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	7
52	Temperature-dependent polarization back-switching and dielectric nonlinearity in $\text{PbZr}_{0.4}\text{Ti}_{0.6}\text{O}_3$ ferroelectric thin films. <i>Journal of Applied Physics</i> , 2014, 116, 034109.	2.5	5
53	Temperature induced interface and optical properties of the multi-layer nanotube network. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	4
54	Electric Field Tuning of Anisotropic Magnetoresistance in Ni-Co/PMN-PT Multiferroic Heterostructure. <i>IEEE Transactions on Magnetism</i> , 2019, 55, 1-3.	2.1	4

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55	Highly Sensitive Magneto-Mechano-Electric Magnetic Field Sensor Based on Torque Effect. IEEE Sensors Journal, 2021, 21, 1409-1416.	4.7	4
56	Ferroelastic Strain-Mediated Nonvolatile Tuning of Perpendicular Magnetic Anisotropy in (Co/Pt) ₃ /(1 $\bar{1}$ 1 $\bar{1}$) Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ Multiferroic Heterostructures. IEEE Magnetics Letters, 2017, 8, 1-5.	1.1	3
57	Ionic liquid gating control of magnetic anisotropy in Ni _{0.81} Fe _{0.19} thin films. Current Applied Physics, 2020, 20, 883-887.	2.4	3
58	Voltage Control of Perpendicular Magnetic Anisotropy in Multiferroic Composite Thin Films under Strong Electric Fields. ACS Applied Materials & Interfaces, 2021, 13, 61404-61412.	8.0	3
59	A novel passive detection method for glucose sensing based on enzyme-catalyzed reaction regulating magnetic anisotropy. Chemical Engineering Journal, 2022, 446, 136844.	12.7	3
60	Size Effect of Uniaxial Stress Affecting Dielectric Response in Barium Titanate. Japanese Journal of Applied Physics, 2010, 49, 101503.	1.5	2
61	Effect of Uniaxial Compressive Stress on the Partially Fatigued Soft Lead Zirconate Titanate Piezoelectric Ceramics. Key Engineering Materials, 0, 602-603, 817-821.	0.4	2
62	Tuning the Magnetic Anisotropy of Fe ₃ O ₄ /Pt Heterostructures Fabricated by Atomic Layer Deposition With In-Situ Magnetic Field . IEEE Transactions on Magnetics, 2019, 55, 1-7.	2.1	2
63	Characterization of Domains Reorientation in Multilayer Piezoelectric Ceramic Actuators by Polarized Raman Spectroscopy. Journal of the American Ceramic Society, 2012, 95, 2766-2768.	3.8	1
64	Magnonics: Modulation of Spin Dynamics via Voltage Control of Spin-Lattice Coupling in Multiferroics (Adv. Funct. Mater. 10/2017). Advanced Functional Materials, 2017, 27, .	14.9	1
65	Magnetic Anisotropy: Ionic Liquid Gating Control of Spin Reorientation Transition and Switching of Perpendicular Magnetic Anisotropy (Adv. Mater. 30/2018). Advanced Materials, 2018, 30, 1870223.	21.0	1
66	Solar Driven Spintronics: Sunlight Control of Interfacial Magnetism for Solar Driven Spintronic Applications (Adv. Sci. 24/2019). Advanced Science, 2019, 6, 1970147.	11.2	1
67	Linearly shifting ferromagnetic resonance response of La _{0.7} Sr _{0.3} MnO ₃ thin film for body temperature sensors. Frontiers of Materials Science, 2022, 16, 220589.	2.2	1
68	Ionic-Liquid Gating: Quantitative Determination on Ionic-Liquid-Gating Control of Interfacial Magnetism (Adv. Mater. 17/2017). Advanced Materials, 2017, 29, .	21.0	0
69	Flexible Ferroelectrics: Periodic Wrinkle-Patterned Single-Crystalline Ferroelectric Oxide Membranes with Enhanced Piezoelectricity (Adv. Mater. 50/2020). Advanced Materials, 2020, 32, 2070377.	21.0	0
70	Phase field simulation of grain growth in Al ₂ O ₃ -based composite ceramic cutting tool materials containing second phase nanoparticles and pores. Materials Research Express, 2020, 7, 115202.	1.6	0
71	Self-Assembled Epitaxial Ferroelectric Oxide Nanospring with Super-Scalability (Adv. Mater. 13/2022). Advanced Materials, 2022, 34, .	21.0	0