

# 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	Self-Assembled Epitaxial Ferroelectric Oxide Nanospring with Super-Scalability. <i>Advanced Materials</i> , 2022, 34, e2108419.	21.0	11
2	Linearly shifting ferromagnetic resonance response of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin film for body temperature sensors. <i>Frontiers of Materials Science</i> , 2022, 16, 220589.	2.2	1
3	Giant tunable spin Hall angle in sputtered Bi <sub>2</sub> Se <sub>3</sub> controlled by an electric field. <i>Nature Communications</i> , 2022, 13, 1650.	12.8	33
4	Self-Assembled Epitaxial Ferroelectric Oxide Nanospring with Super-Scalability (Adv. Mater. 13/2022). <i>Advanced Materials</i> , 2022, 34, .	21.0	0
5	Flexible Multiferroic Heterostructure Based on Freestanding Single-Crystalline BaTiO <sub>3</sub> Membranes for Spintronic Devices. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	7
6	A novel passive detection method for glucose sensing based on enzyme-catalyzed reaction regulating magnetic anisotropy. <i>Chemical Engineering Journal</i> , 2022, 446, 136844.	12.7	3
7	Highly Sensitive Magneto-Mechano-Electric Magnetic Field Sensor Based on Torque Effect. <i>IEEE Sensors Journal</i> , 2021, 21, 1409-1416.	4.7	4
8	Domain patterns and super-elasticity of freestanding BiFeO <sub>3</sub> membranes via phase-field simulations. <i>Acta Materialia</i> , 2021, 208, 116689.	7.9	18
9	Voltage Control of Perpendicular Magnetic Anisotropy in Multiferroic Composite Thin Films under Strong Electric Fields. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 61404-61412.	8.0	3
10	Periodic Wrinkle-Patterned Single-Crystalline Ferroelectric Oxide Membranes with Enhanced Piezoelectricity. <i>Advanced Materials</i> , 2020, 32, e2004477.	21.0	47
11	Flexible CoFeB/Silk Films for Biocompatible RF/Microwave Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 51654-51661.	8.0	9
12	Phase transition enhanced superior elasticity in freestanding single-crystalline multiferroic BiFeO <sub>3</sub> membranes. <i>Science Advances</i> , 2020, 6, .	10.3	73
13	Low-damping flexible Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> thin films for tunable RF/microwave processors. <i>Materials Horizons</i> , 2020, 7, 1558-1565.	12.2	16
14	Quantitative domain engineering for realizing d <sub>36</sub> piezoelectric coefficient in tetragonal ceramics. <i>Acta Materialia</i> , 2020, 188, 416-423.	7.9	9
15	Ionic liquid gating control of magnetic anisotropy in Ni <sub>0.81</sub> Fe <sub>0.19</sub> thin films. <i>Current Applied Physics</i> , 2020, 20, 883-887.	2.4	3
16	Flexible Ferroelectrics: Periodic Wrinkle-Patterned Single-Crystalline Ferroelectric Oxide Membranes with Enhanced Piezoelectricity (Adv. Mater. 50/2020). <i>Advanced Materials</i> , 2020, 32, 2070377.	21.0	0
17	Phase field simulation of grain growth in Al <sub>2</sub> O <sub>3</sub> -based composite ceramic cutting tool materials containing second phase nanoparticles and pores. <i>Materials Research Express</i> , 2020, 7, 115202.	1.6	0
18	Sunlight Control of Interfacial Magnetism for Solar Driven Spintronic Applications. <i>Advanced Science</i> , 2019, 6, 1901994.	11.2	16

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19	Super-elastic ferroelectric single-crystal membrane with continuous electric dipole rotation. Science, 2019, 366, 475-479.	12.6	272
20	Voltage Control of Perpendicular Exchange Bias in Multiferroic Heterostructures. Advanced Electronic Materials, 2019, 5, 1900192.	5.1	8
21	Low-Voltage-Manipulating Spin Dynamics of Flexible Fe <sub>3</sub> O <sub>4</sub> Films through Ionic Gel Gating for Wearable Devices. ACS Applied Materials & Interfaces, 2019, 11, 21727-21733.	8.0	17
22	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
23	Enhancement of the Spin-Orbiting Conductance in $\text{Co}/\text{Fe}$ Heterostructures	3.8	16
24	Electric Field Tuning of Anisotropic Magnetoresistance in Ni-Co/PMN-PT Multiferroic Heterostructure. IEEE Transactions on Magnetics, 2019, 55, 1-3.	2.1	4
25	Ionic Modulation of Interfacial Magnetism in Light Metal/Ferromagnetic Insulator Layered Nanostructures. Advanced Functional Materials, 2019, 29, 1805592.	14.9	12
26	Tuning the Magnetic Anisotropy of Fe <sub>3</sub> O <sub>4</sub> /Pt Heterostructures Fabricated by Atomic Layer Deposition With $\text{In-Situ}$ Magnetic Field. IEEE Transactions on Magnetics, 2019, 55, 1-7.	2.1	2
27	Voltage control of perpendicular magnetic anisotropy in (Co/Pt) <sub>3</sub> /Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> multiferroic heterostructures at room temperature. Applied Physics Letters, 2018, 113, 142901.	3.3	7
28	Voltage control of ferromagnetic resonance and spin waves. Chinese Physics B, 2018, 27, 097505.	1.4	7
29	Ionic Liquid Gating Control of Spin Reorientation Transition and Switching of Perpendicular Magnetic Anisotropy. Advanced Materials, 2018, 30, e1801639.	21.0	47
30	Highly Sensitive Magnetic Sensor Based on Anisotropic Magnetoresistance Effect. IEEE Transactions on Magnetics, 2018, 54, 1-3.	2.1	19
31	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
32	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
33	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
34	Voltage Control of Magnetic Anisotropy through Ionic Gel Gating for Flexible Spintronics. ACS Applied Materials & Interfaces, 2018, 10, 29750-29756.	8.0	16
35	Low-Voltage Control of (Co/Pt) <sub>x</sub> Perpendicular Magnetic Anisotropy Heterostructure for Flexible Spintronics. ACS Nano, 2018, 12, 7167-7173.	14.6	53
36	Temperature induced interface and optical properties of the multi-layer nanotube network. Journal of Applied Physics, 2018, 123, .	2.5	4

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37	Modulation of Spin Dynamics via Voltage Control of Spin-Lattice Coupling in Multiferroics. <i>Advanced Functional Materials</i> , 2017, 27, 1605598.	14.9	40
38	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
39	Magnonics: Modulation of Spin Dynamics via Voltage Control of Spin-Lattice Coupling in Multiferroics ( <i>Adv. Funct. Mater.</i> 10/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	1
40	ALD preparation of high-k HfO <sub>2</sub> thin films with enhanced energy density and efficient electrostatic energy storage. <i>RSC Advances</i> , 2017, 7, 8388-8393.	3.6	39
41	Multiferroic heterostructures of Fe <sub>3</sub> O <sub>4</sub> /PMN-PT prepared by atomic layer deposition for enhanced interfacial magnetoelectric couplings. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	21
42	Quantitative Determination on Ionic-Liquid-Gating Control of Interfacial Magnetism. <i>Advanced Materials</i> , 2017, 29, 1606478.	21.0	72
43	Deterministic Switching of Perpendicular Magnetic Anisotropy by Voltage Control of Spin Reorientation Transition in (Co/Pt) <sub>3</sub> /Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ∼ PbTiO <sub>3</sub> Multiferroic Heterostructures. <i>ACS Nano</i> , 2017, 11, 4337-4345.	14.6	91
44	Ionic-Liquid Gating: Quantitative Determination on Ionic-Liquid-Gating Control of Interfacial Magnetism ( <i>Adv. Mater.</i> 17/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	0
45	<a href="http://www.w3.org/1998/Math/MathML">Voltage Control of Perpendicular Magnetic Anisotropy in Multiferroic <math>(\text{Co/Pt})_3/\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3/\text{PbTiO}_3</math> Heterostructures</a> . <i>ACS Nano</i> , 2017, 11, 4337-4345.	14.6	91
46	Ferroelastic Strain-Mediated Nonvolatile Tuning of Perpendicular Magnetic Anisotropy in (Co/Pt) <sub>3</sub> /(111) Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> Multiferroic Heterostructures. <i>IEEE Magnetics Letters</i> , 2017, 8, 1-5.	1.1	3
47	Advances in Magnetism Epitaxial Multiferroic Heterostructures and Applications. <i>IEEE Transactions on Magnetism</i> , 2017, 53, 1-16.	2.1	13
48	Ferroelectric Phase Transition Induced a Large FMR Tuning in Self-Assembled BaTiO <sub>3</sub> :Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> Multiferroic Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 30733-30740.	8.0	22
49	Voltage-Impulse-Induced Nonvolatile Control of Inductance in Tunable Magnetoelectric Inductors. <i>Physical Review Applied</i> , 2017, 7, .	3.8	19
50	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
51	Temperature-dependent dielectric properties, thermally-stimulated relaxations and defect-property correlations of TiO <sub>2</sub> ceramics for wireless passive temperature sensing. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1923-1930.	5.7	28
52	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
53	Voltage control of ferromagnetic resonance. <i>Journal of Advanced Dielectrics</i> , 2016, 06, 1630005.	2.4	9
54	Electric field induced reversible 180° magnetization switching through tuning of interfacial exchange bias along magnetic easy-axis in multiferroic laminates. <i>Scientific Reports</i> , 2015, 5, 16480.	3.3	26

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55	Highly (100)-Oriented Bi(Ni <sub>1/2</sub> Hf <sub>1/2</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> Relaxor-Ferroelectric Films for Integrated Piezoelectric Energy Harvesting and Storage System. Journal of the American Ceramic Society, 2015, 98, 2968-2971.	3.8	32
56	Magnetic and electrical properties of Z-type hexaferrites sintered in different atmospheres. Materials Research Bulletin, 2015, 65, 238-242.	5.2	15
57	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
58	Effects of thermal anneal temperature on electrical properties and energy-storage density of Bi(Ni <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> thin films. Ceramics International, 2015, 41, S206-S212.	4.8	15
59	Temperature-dependent polarization back-switching and dielectric nonlinearity in PbZr <sub>0.4</sub> Ti <sub>0.6</sub> O <sub>3</sub> ferroelectric thin films. Journal of Applied Physics, 2014, 116, 034109.	2.5	5
60	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
61	Bi(Ni <sub>1/2</sub> Zr <sub>1/2</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> relaxor-ferroelectric films for piezoelectric energy harvesting and electrostatic storage. Applied Physics Letters, 2014, 104, .	3.3	41
62	Polarization Response and Thermally Stimulated Depolarization Current of BaTiO <sub>3</sub> -based Y5V Ceramic Multilayer Capacitors. Journal of the American Ceramic Society, 2014, 97, 2921-2927.	3.8	23
63	Microwave Dielectric Properties and Thermally Stimulated Depolarization Currents Study of (1-x)Ba <sub>0.6</sub> Sr <sub>0.4</sub> Ba <sub>x</sub> Bi <sub>1-x/2</sub> Ti <sub>1-x/2</sub> O <sub>3</sub> Ceramics. Journal of the American Ceramic Society, 2014, 97, 3170-3176.	3.8	55
64	Effect of PbO excess on the microstructure, dielectric and piezoelectric properties, and energy-storage performance of Bi(Ni <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> thin films. Japanese Journal of Applied Physics, 2014, 53, 08NA02.	1.5	7
65	Microwave Dielectric Properties and Thermally Stimulated Depolarization Currents of MgF <sub>2</sub> -Doped Diopside Ceramics. Journal of the American Ceramic Society, 2014, 97, 3537-3543.	3.8	32
66	High-Energy Storage Density Capacitors of Bi(Ni <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> Thin Films with Good Temperature Stability. Journal of the American Ceramic Society, 2013, 96, 2061-2064.	3.8	55
67	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
68	Evaluation of domain wall motion during polymorphic phase transition in (K, Na)NbO <sub>3</sub> -based piezoelectric ceramics by nonlinear response measurements. Journal of Applied Physics, 2011, 109, .	2.5	56
69	Size Effect of Uniaxial Stress Affecting Dielectric Response in Barium Titanate. Japanese Journal of Applied Physics, 2010, 49, 101503.	1.5	2
70	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
71	Vector analysis of electric-field-induced antiparallel magnetic domain evolution in ferromagnetic/ferroelectric heterostructures. Journal of Advanced Ceramics, 0, , 1.	17.4	7