

# Bin Yang

## List of Publications by Year in descending order

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84  
papers

1,861  
citations

236833

25  
h-index

289141

40  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2244  
citing authors

#	ARTICLE	IF	CITATIONS
1	A broadband low-frequency muffler based on neural network method and Helmholtz resonator with helical neck. <i>JVC/Journal of Vibration and Control</i> , 2023, 29, 3942-3951.	1.5	3
2	Enhancing the Temperature Stability of 0.42PNN-0.21PZ-0.37PT Ceramics through Texture Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 3076-3083.	4.0	16
3	Elimination of pyrochlore phase in high-concentration Sm <sup>3+</sup> -doped PMN-PT piezoelectric ceramics by excessive MgO. <i>Journal of the American Ceramic Society</i> , 2022, 105, 4180-4190.	1.9	7
4	Microstructure and Electric Properties of Bi <sub>2</sub> O <sub>3</sub> -Doped (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> Lead-Free Ceramics. <i>Coatings</i> , 2022, 12, 526.	1.2	4
5	Temperature and frequency dependent defect dipole kinematics in "hard" piezoelectric ceramics. <i>Sensors and Actuators A: Physical</i> , 2022, 344, 113712.	2.0	0
6	Analysis of the influencing factors on the anti-aging performance of a hybrid-modified asphalt mixture using the grey relational theory. <i>International Journal of Pavement Engineering</i> , 2021, 22, 597-612.	2.2	11
7	Comparative study on durability of different composite modified asphalt mixtures. <i>Road Materials and Pavement Design</i> , 2021, 22, 1369-1388.	2.0	5
8	High piezoelectricity of Eu <sup>3+</sup> -doped Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ≈ 0.25PbTiO <sub>3</sub> transparent ceramics. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2426-2436.	2.7	30
9	The high enrichment of <i>Geobacter</i> by TiN nanoarray anode catalyst for efficient microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7726-7735.	5.2	23
10	Optimized piezoelectric properties and temperature stability in PSN-PMN-PT by adjusting the phase structure and grain size. <i>Journal of the American Ceramic Society</i> , 2021, 104, 6254-6265.	1.9	4
11	Enhancing directed collective motion of self-propelled particles in confined channel. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 415101.	0.7	1
12	Low-work-function LaB <sub>6</sub> for realizing photodynamic-enhanced photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4380-4389.	2.9	8
13	Large, thermally stabilized and fatigue-resistant piezoelectric strain response in textured relaxor-PbTiO <sub>3</sub> ferroelectric ceramics. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2008-2015.	2.7	22
14	Scaling relations of domain reversal dynamics in rhombohedral and tetragonal PIN-PMN-PT ferroelectric single crystals. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	15
15	Phase field simulation of de-aging process in acceptor-doped ferroelectrics. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152503.	2.8	2
16	Porous Ultrathin NiSe Nanosheet Networks on Nickel Foam for High-Performance Hybrid Supercapacitors. <i>ChemSusChem</i> , 2020, 13, 260-266.	3.6	50
17	Dielectric relaxation and local domain structures of ferroelectric PIMNT and PMNT single crystals. <i>Journal of the American Ceramic Society</i> , 2020, 103, 1744-1754.	1.9	7
18	Intrinsic Dipole Coupling in 2D van der Waals Ferroelectrics for Gate-Controlled Switchable Rectifier. <i>Advanced Electronic Materials</i> , 2020, 6, 1900975.	2.6	27

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19	Plasmonic Enhanced Reactive Oxygen Species Activation on Low-Work-Function Tungsten Nitride for Direct Near-Infrared Driven Photocatalysis. <i>Small</i> , 2020, 16, e2004557.	5.2	22
20	Effect of sintering temperature on the electric properties of KNLNT ceramics. <i>Ferroelectrics</i> , 2020, 562, 1-9.	0.3	1
21	Temperature Dependence of Normalized Sensitivity of Love Wave Sensor of Unidirectional Carbon Fiber Epoxy Composite on Mn-Doped 0.24PIN-0.46PMN-0.30PT Single Crystal Substrate. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8442.	1.3	3
22	NIR Photocatalysis: Plasmonic Enhanced Reactive Oxygen Species Activation on Low-Work-Function Tungsten Nitride for Direct Near-Infrared Driven Photocatalysis (Small 45/2020). <i>Small</i> , 2020, 16, 2070247.	5.2	1
23	Grain-Oriented Ferroelectric Ceramics with Single-Crystal-like Piezoelectric Properties and Low Texture Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 38415-38424.	4.0	52
24	Structural and Electric Properties of MnO <sub>2</sub> -Doped KNN-LT Lead-Free Piezoelectric Ceramics. <i>Crystals</i> , 2020, 10, 705.	1.0	8
25	Microstructure, ferroelectric and piezoelectric properties of MnO <sub>2</sub> -modified Ba <sub>0.70</sub> Ca <sub>0.30</sub> TiO <sub>3</sub> lead-free ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 9352-9365.	1.1	2
26	Influence of MoO <sub>3</sub> on electrical properties and thermal depolarization of Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -BaTiO <sub>3</sub> lead-free piezoceramics. <i>Journal of Applied Physics</i> , 2020, 127, 234102.	1.1	4
27	Enhanced electrocaloric effect in a Si-doped PbZr <sub>0.95</sub> Ti <sub>0.05</sub> O <sub>3</sub> film deposited on FTO substrate. <i>Applied Physics Letters</i> , 2019, 115, 053901.	1.5	2
28	Metallic tungsten carbide nanoparticles as a near-infrared-driven photocatalyst. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18538-18546.	5.2	39
29	Structure and piezoelectric properties of MnO <sub>2</sub> doped Ba <sub>0.985</sub> Ca <sub>0.005</sub> Ti <sub>0.98</sub> Sn <sub>0.02</sub> O <sub>3</sub> lead-free ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 18950-18958.	1.1	5
30	Dynamic characteristics of defect dipoles in Mn-doped 0.24Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> –0.47Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> –0.3PbTiO <sub>3</sub> single crystal. <i>CrystEngComm</i> , 2019, 21, 348-355.	1.5	8
31	Sn <sub>x</sub> WO <sub>3</sub> as a theranostic platform for realizing multi-imaging-guided photothermal/photodynamic combination therapy. <i>Nanoscale</i> , 2019, 11, 3300-3310.	2.8	21
32	Ultrahigh energy harvesting properties in textured lead-free piezoelectric composites. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3603-3611.	5.2	43
33	The theranostic nanoagent Mo <sub>2</sub> C for multi-modal imaging-guided cancer synergistic phototherapy. <i>Biomaterials Science</i> , 2019, 7, 2729-2739.	2.6	48
34	Modeling dynamic rotation of defect dipoles and poling time dependence of piezoelectric effect in ferroelectrics. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	8
35	Domain structure and evolution in ZnO-modified Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> –0.32PbTiO <sub>3</sub> ceramics. <i>Journal of the American Ceramic Society</i> , 2019, 102, 4874-4881.	1.9	9
36	Defect dynamics in clusters of self-propelled rods in circular confinement. <i>European Physical Journal E</i> , 2019, 42, 150.	0.7	5

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37	Targeted photothermal therapy of mice and rabbits realized by macrophage-loaded tungsten carbide. <i>Biomaterials Science</i> , 2019, 7, 5350-5358.	2.6	12
38	Dielectric relaxation properties of [001] <sub>c</sub> , [011] <sub>c</sub> , and [111] <sub>c</sub> -oriented 0.24Pb <sub>0.47</sub> PMN <sub>0.29</sub> PT single crystals. <i>Journal of the American Ceramic Society</i> , 2019, 102, 4103-4112.	1.9	7
39	Ferroelectric properties of Ag doped PbZr <sub>0.53</sub> Ti <sub>0.47</sub> O <sub>3</sub> thin film deposited by sol-gel process. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 2592-2599.	1.1	2
40	Topochemical transformation of single crystalline SrTiO <sub>3</sub> microplatelets from Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> precursors and their orientation-dependent surface piezoelectricity. <i>CrystEngComm</i> , 2018, 20, 3084-3095.	1.3	14
41	Enhanced electric field induced strain in (1-x)((Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -Ba(Ti, Zr)O <sub>3</sub> )-xSrTiO <sub>3</sub> ceramics. <i>Ceramics International</i> , 2018, 44, 12869-12876.	2.3	17
42	Mn doping effects on electric properties of 0.93(Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -0.07Ba(Ti <sub>0.945</sub> Zr <sub>0.055</sub> )O <sub>3</sub> ceramics. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2996-3004.	1.1	6
43	Electrical properties of 0.94Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -0.06Ba(Zr <sub>0.055</sub> Ti <sub>0.945</sub> )O <sub>3</sub> lead-free ceramics with high thermal stability. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 2357-2362.	1.1	6
44	Origin of Improvement in Mechanical Quality Factor in Acceptor-Doped Relaxor-Based Ferroelectric Single Crystals. <i>Physical Review Applied</i> , 2018, 9, .	1.5	32
45	Aging and thermal stability of [001] <sub>c</sub> - and [111] <sub>c</sub> -poled 0.63Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.37PbTiO <sub>3</sub> single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 16207-16214.	1.1	1
46	Domain engineering and full matrix material constants of the [111] <sub>c</sub> -poled 0.63Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )-0.37PbTiO <sub>3</sub> single crystal. <i>CrystEngComm</i> , 2018, 20, 4745-4751.	1.3	6
47	Kirigami-Inspired Highly Stretchable Nanoscale Devices Using Multidimensional Deformation of Monolayer MoS <sub>2</sub> . <i>Chemistry of Materials</i> , 2018, 30, 6063-6070.	3.2	66
48	Significantly Enhanced Energy-Harvesting Performance and Superior Fatigue-Resistant Behavior in [001] <sub>c</sub> -Textured BaTiO <sub>3</sub> -Based Lead-Free Piezoceramics. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31488-31497.	4.0	57
49	Theoretical study on local domain pinning effect due to defect dipole alignment. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 415303.	1.3	20
50	Improved depolarization behavior and electric properties in (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -based piezoelectric composites. <i>Journal of Alloys and Compounds</i> , 2018, 769, 660-668.	2.8	15
51	Oxygen vacancy induces self-doping effect and metalloid LSPR in non-stoichiometric tungsten suboxide synergistically contributing to the enhanced photoelectrocatalytic performance of WO <sub>3-x</sub> /TiO <sub>2-x</sub> heterojunction. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17268-17278.	1.3	44
52	Dynamic scaling of internal bias field in Mn-doped 0.24Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -0.42Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.34PbTiO <sub>3</sub> ferroelectric ceramic. <i>Journal of Materials Science</i> , 2018, 53, 12762-12769.	1.7	15
53	Temperature- and <i>E</i> -field-dependent domain configuration and electrical properties in (K, Na) <sub>1-x</sub> Ti <sub>1-x</sub> ETQq <sub>1-x</sub> ferroelectric. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 3973-3981.	1.9	3
54	Tetragonal (K, Na)NbO <sub>3</sub> based lead-free single crystal: Growth, full tensor properties, and their orientation dependence. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	16



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73	From two-dimensional trapezoid-like layer to three-dimensional porous indium-4,4'-biphenyldicarboxylate MOFs. <i>CrystEngComm</i> , 2012, 14, 193-199.	1.3	25
74	The ferromagnetic and ferroelectric properties of $(\text{Bi}_{0.9}\text{La}_{0.1})(\text{Fe}_{0.95}\text{Co}_{0.05})\text{O}_3$ . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 133-136.	0.8	0
75	Structure and Piezoelectric Properties of Fe-Doped Potassium Sodium Niobate Tantalate Lead-Free Ceramics. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2489-2493.	1.9	44
76	The Multiferroic Properties of $(\text{Bi}_{0.9}\text{Ba}_{0.1})(\text{Fe}_{0.95}\text{Mn}_{0.05})\text{O}_3$ Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011, 24, 1497-1500.	0.8	5
77	The characteristics of laser-driven shock wave investigated by time-resolved Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 345-348.	1.2	15
78	Electric-field control of phase separation and memory effect in $\text{Pr}_{0.6}\text{Ca}_{0.4}\text{MnO}_3/\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.7}\text{Ti}_{0.3}\text{O}_3$ heterostructures. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	38
79	Temperature-dependent leakage current characteristics of Pr and Mn cosubstituted $\text{BiFeO}_3$ thin films. <i>Applied Physics Letters</i> , 2010, 96, 202904.	1.5	26
80	Morphotropic phase boundary and electrical properties in $(1-x)\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3-x\text{Bi}(\text{Zn}_{0.5}\text{Ti}_{0.5})\text{O}_3$ lead-free piezoceramics. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	50
81	Phase diagram and electrostrictive properties of $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3-x\text{BaTiO}_3-x\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ ceramics. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	73
82	The ferromagnetic and ferroelectric properties of $(\text{Bi}_{0.9}\text{La}_{0.1})(\text{Fe}_{0.95}\text{Co}_{0.05})\text{O}_3$ . , 2010, , .		0
83	Nonlinear optical absorption in $\text{Bi}_3\text{TiNbO}_9$ thin films using Z-scan technique. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 1017-1021.	1.1	5
84	Investigation on optical properties of $\text{Bi}_{2.85}\text{La}_{0.15}\text{TiNbO}_9$ thin films by prism coupling technique. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 741-744.	1.1	3