

# Zhongbin Pan

## List of Publications by Year in descending order

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58  
papers

4,306  
citations

147801

31  
h-index

138484

58  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1843  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized energy storage performances in morphotropic phase boundary (Na <sub>0.8</sub> K <sub>0.2</sub> ) <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -based lead-free ferroelectric thin films. <i>Ceramics International</i> , 2022, 48, 6062-6068.	4.8	6
2	Interface engineering to optimize polarization and electric breakdown strength of Ba <sub>2</sub> Bi <sub>3.97</sub> Pr <sub>0.03</sub> Ti <sub>5</sub> O <sub>18</sub> /BiFeO <sub>3</sub> ferroelectric thin-film for high-performance capacitors. <i>Chemical Engineering Journal</i> , 2022, 433, 133676.	12.7	7
3	Three-dimensional polypyrrole induced high-performance flexible piezoelectric nanogenerators for mechanical energy harvesting. <i>Composites Science and Technology</i> , 2022, 219, 109260.	7.8	22
4	Ultrahigh charge/discharge efficiency and high energy density of a high-temperature stable sandwich-structured polymer. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1579-1587.	10.3	30
5	Crystallization induced realignment of carbon fibers in a phase change material to achieve exceptional thermal transportation properties. <i>Journal of Materials Chemistry A</i> , 2022, 10, 593-601.	10.3	29
6	Enhanced energy-storage performance in BNT-based lead-free dielectric ceramics via introducing SrTi <sub>0.875</sub> Nb <sub>0.1</sub> O <sub>3</sub> . <i>Journal of Materiomics</i> , 2022, 8, 537-544.	5.7	15
7	Two-Dimensional Fillers Induced Superior Electrostatic Energy Storage Performance in Trilayered Architecture Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 8448-8457.	8.0	30
8	Robust composite film with high thermal conductivity and excellent mechanical properties by constructing a long-range ordered sandwich structure. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9922-9931.	10.3	20
9	Superior energy storage performance in (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -based lead-free relaxor ferroelectrics for dielectric capacitor application via multiscale optimization design. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9535-9546.	10.3	70
10	Nanocrystalline Engineering Induced High Energy Storage Performances of Fatigue-Free Ba <sub>2</sub> Bi <sub>3.9</sub> Pr <sub>0.1</sub> Ti <sub>5</sub> O <sub>18</sub> Ferroelectric Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 17642-17651.	8.0	10
11	Constructing novel binary Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -based composite ceramics for excellent energy storage performances via defect engineering. <i>Chemical Engineering Journal</i> , 2022, 439, 135762.	12.7	28
12	Wafer-Scale 2H-MoS <sub>2</sub> Monolayer for High Surface-Enhanced Raman Scattering Performance: Charge Transfer Coupled with Molecule Resonance. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	14
13	Ultralow contents of AgNbO <sub>3</sub> fibers induced high energy storage density in ferroelectric polymer nanocomposites. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	9
14	Ultra-sensitive flexible piezoelectric energy harvesters inspired by pine branches for detection. <i>Nano Energy</i> , 2022, 99, 107422.	16.0	11
15	Energy density capability and upconversion luminescence in Er <sup>3+</sup> /Yb <sup>3+</sup> -codoping BNT-based ferroelectric thin films. <i>Ceramics International</i> , 2022, 48, 28606-28613.	4.8	2
16	Enhancement of recoverable energy density and efficiency of lead-free relaxor-ferroelectric BNT-based ceramics. <i>Chemical Engineering Journal</i> , 2021, 406, 126818.	12.7	123
17	Optimization the energy density and efficiency of BaTiO <sub>3</sub> -based ceramics for capacitor applications. <i>Chemical Engineering Journal</i> , 2021, 409, 127375.	12.7	83
18	Enhancement thermal stability of polyetherimide-based nanocomposites for applications in energy storage. <i>Composites Science and Technology</i> , 2021, 201, 108501.	7.8	58

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19	Significantly Improvement of Comprehensive Energy Storage Performances with Lead-free Relaxor Ferroelectric Ceramics for High-temperature Capacitors Applications. <i>Acta Materialia</i> , 2021, 203, 116484.	7.9	149
20	Substantially improved energy storage capability of ferroelectric thin films for application in high-temperature capacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9281-9290.	10.3	27
21	Realizing high comprehensive energy storage performances of BNT-based ceramics for application in pulse power capacitors. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2548-2558.	5.7	72
22	Improved breakdown strength and energy density of polyimide composites by interface engineering between BN and BaTiO <sub>3</sub> fibers. <i>Journal of Materials Science and Technology</i> , 2021, 74, 1-10.	10.7	36
23	Ultrahigh energy storage performance of a polymer-based nanocomposite <i>via</i> interface engineering. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3530-3539.	10.3	29
24	Solid-state Synthesis and High Magnetostriction Performances of Heavy Rare Earth-Free Sm <sub>0.88</sub> Nd <sub>0.12</sub> Fe <sub>x</sub> Particulate Composites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 1231-1237.	1.8	2
25	Ultrahigh discharge efficiency and improved energy density in polymer-based nanocomposite for high-temperature capacitors application. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 142, 106266.	7.6	73
26	Low electric field induced high energy storage capability of the free-lead relaxor ferroelectric 0.94Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -0.06BaTiO <sub>3</sub> -based ceramics. <i>Ceramics International</i> , 2021, 47, 11611-11617.	4.8	23
27	MnO <sub>2</sub> -modified lead-free NBT-based relaxor ferroelectric ceramics with improved energy storage performances. <i>Ceramics International</i> , 2021, 47, 22065-22072.	4.8	15
28	Ultrahigh Energy Storage Performance of Layered Polymer Nanocomposites over a Broad Temperature Range. <i>Advanced Materials</i> , 2021, 33, e2103338.	21.0	96
29	Effective improved energy storage performances of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -based relaxor ferroelectrics ceramics by A/B-sites co-doping. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160837.	5.5	14
30	Polypyrrole random-coil induced permittivity from negative to positive in all-organic composite films. <i>Journal of Materiomics</i> , 2020, 6, 348-354.	5.7	14
31	Greatly enhanced discharge energy density and efficiency of novel relaxation ferroelectric BNT-based ceramics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 591-601.	5.5	224
32	Enhancement of energy density in novel Ba <sub>0.67</sub> Sr <sub>0.33</sub> TiO <sub>3</sub> nanorod array nanocomposites. <i>Materials and Design</i> , 2020, 195, 109044.	7.0	17
33	Enhancement of thermal stability and energy storage capability of flexible Ag nanodot/polyimide nanocomposite films <i>via in situ</i> synthesis. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12607-12614.	5.5	32
34	Textured Orientation and Dynamic Magnetoelastic Properties of Epoxy-Based Tb <sub>x</sub> Dy <sub>0.7-x</sub> Pr <sub>0.3</sub> (Fe <sub>0.9</sub> B <sub>0.1</sub> ) <sub>1.93</sub> Particulate Composites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 3857-3864.	1.8	5
35	Significantly improved recoverable energy density and ultrafast discharge rate of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -based ceramics. <i>Ceramics International</i> , 2020, 46, 15364-15371.	4.8	56
36	Enhanced energy storage capability of (1-x)Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -xSr <sub>0.7</sub> Bi <sub>0.2</sub> TiO <sub>3</sub> free-lead relaxor ferroelectric thin films. <i>Ceramics International</i> , 2020, 46, 14816-14821.	4.8	29

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37	Fatigue-Free Aurivillius Phase Ferroelectric Thin Films with Ultrahigh Energy Storage Performance. <i>Advanced Energy Materials</i> , 2020, 10, 2001536.	19.5	114
38	Highly enhanced discharged energy density of polymer nanocomposites <i>via</i> a novel hybrid structure as fillers. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15347-15355.	10.3	89
39	Simultaneously enhanced discharge energy density and efficiency in nanocomposite film capacitors utilizing two-dimensional $\text{NaNbO}_3$ @ $\text{Al}_2\text{O}_3$ platelets. <i>Nanoscale</i> , 2019, 11, 10546-10554.	5.6	93
40	Achieving high discharge energy density and efficiency with NBT-based ceramics for application in capacitors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4072-4078.	5.5	291
41	Superior discharge energy density and efficiency in polymer nanocomposites induced by linear dielectric core-shell nanofibers. <i>Journal of Materials Chemistry C</i> , 2019, 7, 405-413.	5.5	92
42	High-energy-density with polymer nanocomposites containing of $\text{SrTiO}_3$ nanofibers for capacitor application. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 48-54.	7.6	145
43	Interfacial Coupling Effect in Organic/Inorganic Nanocomposites with High Energy Density. <i>Advanced Materials</i> , 2018, 30, e1705662.	21.0	245
44	High dielectric constant and low dielectric loss poly(vinylidene fluoride) nanocomposites <i>via</i> a small loading of two-dimensional $\text{Bi}_2\text{Te}_3$ @ $\text{Al}_2\text{O}_3$ hexagonal nanoplates. <i>Journal of Materials Chemistry C</i> , 2018, 6, 271-279.	5.5	95
45	High-performance capacitors based on $\text{NaNbO}_3$ nanowires/poly(vinylidene fluoride) nanocomposites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14614-14622.	10.3	94
46	Largely enhanced energy storage capability of a polymer nanocomposite utilizing a core-satellite strategy. <i>Nanoscale</i> , 2018, 10, 16621-16629.	5.6	70
47	Effect of dielectric response on discharge properties of PLZST antiferroelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 16983-16987.	2.2	3
48	High-Energy-Density Polymer Nanocomposites Composed of Newly Structured One-Dimensional $\text{BaTiO}_3$ @ $\text{Al}_2\text{O}_3$ Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4024-4033.	8.0	241
49	Novel design of highly [110]-oriented barium titanate nanorod array and its application in nanocomposite capacitors. <i>Nanoscale</i> , 2017, 9, 4255-4264.	5.6	53
50	Effect of crystallization temperature on dielectric and energy-storage properties in $\text{SrO-Na}_2\text{O-Nb}_2\text{O}_5\text{-SiO}_2$ glass-ceramics. <i>Ceramics International</i> , 2017, 43, 8898-8904.	4.8	25
51	Ultrafast Discharge and High-Energy-Density of Polymer Nanocomposites Achieved via Optimizing the Structure Design of Barium Titanates. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4707-4717.	6.7	102
52	Significantly improved dielectric properties and energy density of polymer nanocomposites via small loaded of $\text{BaTiO}_3$ nanotubes. <i>Composites Science and Technology</i> , 2017, 147, 30-38.	7.8	139
53	Crystallization kinetics, breakdown strength, and energy-storage properties in niobate-based glass-ceramics. <i>Journal of Alloys and Compounds</i> , 2017, 722, 212-218.	5.5	51
54	Ultrafast Discharge and Enhanced Energy Density of Polymer Nanocomposites Loaded with $0.5(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ - $0.5\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_{120}$ One-Dimensional Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14337-14346.	8.0	241

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55	NaNbO <sub>3</sub> two-dimensional platelets induced highly energy storage density in trilayered architecture composites. Nano Energy, 2017, 40, 587-595.	16.0	247
56	Multilayer hierarchical interfaces with high energy density in polymer nanocomposites composed of BaTiO <sub>3</sub> @TiO <sub>2</sub> @Al <sub>2</sub> O <sub>3</sub> nanofibers. Journal of Materials Chemistry A, 2017, 5, 15217-15226.	10.3	221
57	Excellent energy density of polymer nanocomposites containing BaTiO <sub>3</sub> @Al <sub>2</sub> O <sub>3</sub> nanofibers induced by moderate interfacial area. Journal of Materials Chemistry A, 2016, 4, 13259-13264.	10.3	196
58	Significantly Enhanced Energy Density in Nanocomposite Capacitors Combining the TiO <sub>2</sub> Nanorod Array with Poly(vinylidene fluoride). ACS Applied Materials & Interfaces, 2016, 8, 26343-26351.	8.0	100