

# Zhongbin Pan

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	NaNbO <sub>3</sub> two-dimensional platelets induced highly energy storage density in trilayered architecture composites. <i>Nano Energy</i> , 2017, 40, 587-595.	16.0	247
3	Interfacial Coupling Effect in Organic/Inorganic Nanocomposites with High Energy Density. <i>Advanced Materials</i> , 2018, 30, e1705662.	21.0	245
4	High-Energy-Density Polymer Nanocomposites Composed of Newly Structured One-Dimensional BaTiO <sub>3</sub> @Al <sub>2</sub> O <sub>3</sub> Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4024-4033.	8.0	241
5	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
6	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. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15217-15226.	10.3	221
7	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. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13259-13264.	10.3	196
8	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
9	High-energy-density with polymer nanocomposites containing of SrTiO <sub>3</sub> nanofibers for capacitor application. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 48-54.	7.6	145
10	Significantly improved dielectric properties and energy density of polymer nanocomposites via small loaded of BaTiO <sub>3</sub> nanotubes. <i>Composites Science and Technology</i> , 2017, 147, 30-38.	7.8	139
11	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
12	Ultrafast Discharge and Enhanced Energy Density of Polymer Nanocomposites Loaded with 0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> â€“0.5Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> One-Dimensional Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14337-14346.	8.0	120
13	Fatigue-free Aurivillius Phase Ferroelectric Thin Films with Ultrahigh Energy Storage Performance. <i>Advanced Energy Materials</i> , 2020, 10, 2001536.	19.5	114
14	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
15	Significantly Enhanced Energy Density in Nanocomposite Capacitors Combining the TiO <sub>2</sub> Nanorod Array with Poly(vinylidene fluoride). <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 26343-26351.	8.0	100
16	Ultrahigh Energy Storage Performance of Layered Polymer Nanocomposites over a Broad Temperature Range. <i>Advanced Materials</i> , 2021, 33, e2103338.	21.0	96
17	High dielectric constant and low dielectric loss poly(vinylidene fluoride) nanocomposites via a small loading of two-dimensional Bi <sub>2</sub> Te <sub>3</sub> @Al <sub>2</sub> O <sub>3</sub> hexagonal nanoplates. <i>Journal of Materials Chemistry C</i> , 2018, 6, 271-279.	5.5	95
18	High-performance capacitors based on NaNbO <sub>3</sub> nanowires/poly(vinylidene fluoride) nanocomposites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14614-14622.	10.3	94

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19	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
20	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
21	Highly enhanced discharged energy density of polymer nanocomposites via a novel hybrid structure as fillers. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15347-15355.	10.3	89
22	Optimization the energy density and efficiency of $\text{BaTiO}_3$ -based ceramics for capacitor applications. <i>Chemical Engineering Journal</i> , 2021, 409, 127375.	12.7	83
23	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
24	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
25	Largely enhanced energy storage capability of a polymer nanocomposite utilizing a core-satellite strategy. <i>Nanoscale</i> , 2018, 10, 16621-16629.	5.6	70
26	Superior energy storage performance in $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ -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
27	Enhancement thermal stability of polyetherimide-based nanocomposites for applications in energy storage. <i>Composites Science and Technology</i> , 2021, 201, 108501.	7.8	58
28	Significantly improved recoverable energy density and ultrafast discharge rate of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ -based ceramics. <i>Ceramics International</i> , 2020, 46, 15364-15371.	4.8	56
29	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
30	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
31	Improved breakdown strength and energy density of polyimide composites by interface engineering between BN and $\text{BaTiO}_3$ fibers. <i>Journal of Materials Science and Technology</i> , 2021, 74, 1-10.	10.7	36
32	Enhancement of thermal stability and energy storage capability of flexible Ag nanodot/polyimide nanocomposite films via in situ synthesis. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12607-12614.	5.5	32
33	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
34	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
35	Enhanced energy storage capability of $(1-x)\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ - $x\text{Sr}_{0.7}\text{Bi}_{0.2}\text{TiO}_3$ free-lead relaxor ferroelectric thin films. <i>Ceramics International</i> , 2020, 46, 14816-14821.	4.8	29
36	Ultrahigh energy storage performance of a polymer-based nanocomposite via interface engineering. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3530-3539.	10.3	29

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37	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
38	Constructing novel binary $\text{Bi}_0.5\text{Na}_0.5\text{TiO}_3$ -based composite ceramics for excellent energy storage performances via defect engineering. <i>Chemical Engineering Journal</i> , 2022, 439, 135762.	12.7	28
39	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
40	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
41	Low electric field induced high energy storage capability of the free-lead relaxor ferroelectric $0.94\text{Bi}_0.5\text{Na}_0.5\text{TiO}_3\text{-}0.06\text{BaTiO}_3$ -based ceramics. <i>Ceramics International</i> , 2021, 47, 11611-11617.	4.8	23
42	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
43	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
44	Enhancement of energy density in novel $\text{Ba}_0.67\text{Sr}_0.33\text{TiO}_3$ nanorod array nanocomposites. <i>Materials and Design</i> , 2020, 195, 109044.	7.0	17
45	$\text{MnO}_2$ -modified lead-free NBT-based relaxor ferroelectric ceramics with improved energy storage performances. <i>Ceramics International</i> , 2021, 47, 22065-22072.	4.8	15
46	Enhanced energy-storage performance in BNT-based lead-free dielectric ceramics via introducing $\text{SrTi}_0.875\text{Nb}_0.1\text{O}_3$ . <i>Journal of Materiomics</i> , 2022, 8, 537-544.	5.7	15
47	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
48	Effective improved energy storage performances of $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ -based relaxor ferroelectrics ceramics by A/B-sites co-doping. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160837.	5.5	14
49	Wafer-scale $2\text{H-MoS}_2$ Monolayer for High Surface-enhanced Raman Scattering Performance: Charge Transfer Coupled with Molecule Resonance. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	14
50	Ultra-sensitive flexible piezoelectric energy harvesters inspired by pine branches for detection. <i>Nano Energy</i> , 2022, 99, 107422.	16.0	11
51	Nanocrystalline Engineering Induced High Energy Storage Performances of Fatigue-Free $\text{Ba}_2\text{Bi}_3.9\text{Pr}_0.1\text{Ti}_5\text{O}_{18}$ Ferroelectric Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 17642-17651.	8.0	10
52	Ultralow contents of $\text{AgNbO}_3$ fibers induced high energy storage density in ferroelectric polymer nanocomposites. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	9
53	Interface engineering to optimize polarization and electric breakdown strength of $\text{Ba}_2\text{Bi}_3.97\text{Pr}_0.03\text{Ti}_5\text{O}_{18}/\text{BiFeO}_3$ ferroelectric thin-film for high-performance capacitors. <i>Chemical Engineering Journal</i> , 2022, 433, 133676.	12.7	7
54	Optimized energy storage performances in morphotropic phase boundary $(\text{Na}_0.8\text{K}_0.2)_0.5\text{Bi}_0.5\text{TiO}_3$ -based lead-free ferroelectric thin films. <i>Ceramics International</i> , 2022, 48, 6062-6068.	4.8	6

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55	Textured Orientation and Dynamic Magnetoelastic Properties of Epoxy-Based $Tb_{0.7}Pr_{0.3}(Fe_{0.9}B_{0.1})_{1.93}$ Particulate Composites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 3857-3864.	1.8	5
56	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
57	Solid-state Synthesis and High Magnetostriction Performances of Heavy Rare Earth-Free $Sm_{0.88}Nd_{0.12}Fe_x$ Particulate Composites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 1231-1237.	1.8	2
58	Energy density capability and upconversion luminescence in $Er^{3+}/Yb^{3+}$ -codoping BNT-based ferroelectric thin films. <i>Ceramics International</i> , 2022, 48, 28606-28613.	4.8	2