

Changhai Zhang

List of Publications by Year in descending order

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papers

2,814
citations

201674

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61
times ranked

1463
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy storage properties of P(VDF-TrFE-CTFE)-based composite dielectrics with uniform and gradient-doped boron nitride nanosheets. IET Nanodielectrics, 2022, 5, 50-61.	4.1	13
2	Investigations on the Electrical Performances of CuNPs/BN/EPDM Composites. Journal of Electronic Materials, 2022, 51, 1349-1357.	2.2	2
3	Thermal and Electrical Properties of Epoxy Composites Filled with 3D hBN/TOCNF Fillers. Macromolecular Materials and Engineering, 2022, 307, .	3.6	8
4	Polymer dielectric films exhibiting superior high-temperature capacitive performance by utilizing an inorganic insulation interlayer. Materials Horizons, 2022, 9, 1273-1282.	12.2	93
5	Interesting Influence of Different Inorganic Particles on the Energy Storage Performance of a Polyethersulfone-Based Dielectric Composite. ACS Applied Energy Materials, 2022, 5, 3545-3557.	5.1	13
6	High energy storage performance for flexible PbZrO ₃ thin films by seed layer engineering. Ceramics International, 2022, 48, 23840-23848.	4.8	10
7	Structure, dielectric, ferroelectric, and energy density properties of polyethersulfone-based composite for energy storage application. Journal of Materials Science: Materials in Electronics, 2022, 33, 12884-12899.	2.2	3
8	High Energy Storage Performance of All-Inorganic Flexible Antiferroelectric "Insulator Multilayered Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 28997-29006.	8.0	13
9	Polymer nanocomposites with excellent energy storage performances by utilizing the dielectric properties of inorganic fillers. Chemical Engineering Journal, 2021, 408, 127314.	12.7	61
10	High-temperature all-organic energy storage dielectric with the performance of self-adjusting electric field distribution. Journal of Materials Chemistry A, 2021, 9, 16384-16394.	10.3	65
11	Electrical, mechanical and thermal properties of ZnO/SiR composite dielectric. Journal of Materials Science: Materials in Electronics, 2021, 32, 17253-17265.	2.2	3
12	Improved High-Temperature Energy Storage Performance of PEI Dielectric Films by Introducing an SiO ₂ Insulating Layer. Macromolecular Materials and Engineering, 2021, 306, 2100514.	3.6	24
13	Improved Energy Storage Performance of P(VDF-TrFE-CFE) Multilayer Films by Utilizing Inorganic Functional Layers. ACS Applied Energy Materials, 2021, 4, 11726-11734.	5.1	9
14	Study on electrical properties of donor ZnO nanoparticles/EPDM composites. Journal of Materials Science: Materials in Electronics, 2021, 32, 26894-26904.	2.2	0
15	Effect of MWCNTs/ZnO inorganic fillers on the electrical, mechanical and thermal properties of SiR-based composites. Journal of Materials Science: Materials in Electronics, 2021, 32, 27676-27687.	2.2	2
16	Significantly Improved Energy Storage Performance of PVDF Ferroelectric Films by Blending PMMA and Filling PCBM. ACS Sustainable Chemistry and Engineering, 2021, 9, 16291-16303.	6.7	42
17	Ultrahigh discharge efficiency and excellent energy density in oriented core-shell nanofiber-polyetherimide composites. Energy Storage Materials, 2020, 25, 180-192.	18.0	152
18	High energy storage density and efficiency in aligned nanofiber filled nanocomposites with multilayer structure. Composites Part B: Engineering, 2020, 198, 108206.	12.0	64

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19	Excellent Energy Storage Performance of Ferroconcrete-like All-Organic Linear/Ferroelectric Polymer Films Utilizing Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56424-56434.	8.0	66
20	Improved energy storage performances of solution-processable ferroelectric polymer by modulating of microscopic and mesoscopic structure. <i>Composites Part B: Engineering</i> , 2020, 199, 108312.	12.0	14
21	Excellent energy storage performance for P(VDF-TrFE-CFE) composites by filling core-shell structured inorganic fibers. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 21128-21141.	2.2	11
22	Improved Energy Storage Performance of All-Organic Composite Dielectric via Constructing Sandwich Structure. <i>Polymers</i> , 2020, 12, 1972.	4.5	30
23	Investigation of electrical properties of ZnO@Ag/EPDM composites. <i>AIP Advances</i> , 2020, 10, .	1.3	3
24	Enhanced Energy Storage Characteristics in PVDF-Based Nanodielectrics With Core-Shell Structured and Optimized Shape Fillers. <i>IEEE Access</i> , 2020, 8, 81542-81550.	4.2	30
25	Nonlinear conductivity and breakdown strength characteristics of silicon carbide and hexagonal boron nitride co-doped epoxy resin composites. <i>AIP Advances</i> , 2020, 10, .	1.3	8
26	Designing of Ferroelectric/Linear Dielectric Bilayer Films: An Effective Way to Improve the Energy Storage Performances of Polymer-Based Capacitors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5920-5927.	3.1	52
27	Sandwich-structured polymers with electrospun boron nitrides layers as high-temperature energy storage dielectrics. <i>Chemical Engineering Journal</i> , 2020, 389, 124443.	12.7	143
28	Structure and piezoelectric properties of MnO ₂ doped Ba _{0.985} Ca _{0.005} Ti _{0.98} Sn _{0.02} O ₃ lead-free ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 18950-18958.	2.2	5
29	Energy storage enhancement of P(VDF-TrFE-CFE)-based composites with double-shell structured BZCT nanofibers of parallel and orthogonal configurations. <i>Nano Energy</i> , 2019, 66, 104195.	16.0	89
30	Designing of surface modification and sandwich structure: effective routes to improve energy storage property in polyimide-based composite films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19956-19965.	2.2	18
31	Excellent energy storage density and efficiency in blend polymer-based composites by design of core-shell structured inorganic fibers and sandwich structured films. <i>Composites Part B: Engineering</i> , 2019, 177, 107429.	12.0	89
32	Investigation of electrical and mechanical properties of silver-hexagonal boron nitride/EPDM composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 13321-13329.	2.2	8
33	A blended binary composite of poly(vinylidene fluoride) and poly(methyl methacrylate) exhibiting excellent energy storage performances. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14148-14158.	5.5	74
34	Optimizing sandwich-structured composites based on the structure of the filler and the polymer matrix: toward high energy storage properties. <i>RSC Advances</i> , 2019, 9, 33229-33237.	3.6	22
35	Excellent energy storage performance and thermal property of polymer-based composite induced by multifunctional one-dimensional nanofibers oriented in-plane direction. <i>Nano Energy</i> , 2019, 56, 138-150.	16.0	289
36	Excellent Energy Storage Properties with High-Temperature Stability in Sandwich-Structured Polyimide-Based Composite Films. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 748-757.	6.7	88

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37	Microstructures and energy storage property of sandwiched BZT-BCT@Fe ₃ O ₄ /polyimide composites. Journal of Materials Science: Materials in Electronics, 2019, 30, 1-8.	2.2	46
38	Sandwich-Structured PVDF-Based Composite Incorporated with Hybrid Fe ₃ O ₄ @BN Nanosheets for Excellent Dielectric Properties and Energy Storage Performance. Journal of Physical Chemistry C, 2018, 122, 1500-1512.	3.1	108
39	Microstructure and dielectric properties of BZT-BCT/PVDF nanocomposites. Results in Physics, 2018, 8, 391-396.	4.1	45
40	Excellent Energy Storage of Sandwich-Structured PVDF-Based Composite at Low Electric Field by Introduction of the Hybrid CoFe ₂ O ₄ @BZT/BCT Nanofibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 403-412.	6.7	110
41	PVDF-Based Dielectric Composite Films with Excellent Energy Storage Performances by Design of Nanofibers Composition Gradient Structure. ACS Applied Energy Materials, 2018, 1, 6320-6329.	5.1	70
42	Study on Nonlinear Conductivity of CCTO/EPDM Rubber Composites. Materials, 2018, 11, 1590.	2.9	1
43	Study on nonlinear conductivity and breakdown characteristics of zinc oxide/hexagonal boron nitride/EPDM composites. Journal of Materials Science: Materials in Electronics, 2018, 29, 19678-19688.	2.2	15
44	High Energy Storage Density for Poly(vinylidene fluoride) Composites by Introduced Core-Shell CaCu ₃ Ti ₄ O ₁₂ @Al ₂ O ₃ Nanofibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 8641-8649.	6.7	112
45	Sandwich structured BT-Fe ₃ O ₄ /PVDF composites with excellent dielectric properties and energy density. Journal of Materials Science: Materials in Electronics, 2017, 28, 11900-11906.	2.2	14
46	Enhanced Thermal Conductivity and Dielectric Properties of Iron Oxide/Polyethylene Nanocomposites Induced by a Magnetic Field. Scientific Reports, 2017, 7, 3072.	3.3	46
47	Enhanced electric polarization and breakdown strength in the all-organic sandwich-structured poly(vinylidene fluoride)-based dielectric film for high energy density capacitor. APL Materials, 2017, 5, .	5.1	55
48	Significantly enhanced energy storage density for poly(vinylidene fluoride) composites by induced PDA-coated 0.5Ba(Zr _{0.2} Ti _{0.8})O ₃ @0.5(Ba _{0.7} Ca _{0.3})TiO ₃ nanofibers. Journal of Materials Chemistry A, 2017, 5, 16757-16766.	10.3	177
49	Dielectric properties of sandwich-structured BaTiO ₃ /polyimide hybrid films. Journal of Materials Science: Materials in Electronics, 2017, 28, 15142-15148.	2.2	23
50	Nano-Fe ₃ O ₄ deposited CaCu ₃ Ti ₄ O ₁₂ /poly(vinylidene fluoride) composites with enhanced dielectric properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 2502-2510.	2.2	7
51	Low temperature preparation and electric properties of highly (100)-oriented (Na _{0.85} K _{0.15}) _{0.5} Bi _{0.5} TiO ₃ thin films prepared by a sol-gel route. Ceramics International, 2016, 42, 2497-2501.	4.8	4
52	Highly (100)-oriented sandwich structure of (Na _{0.85} K _{0.15}) _{0.5} Bi _{0.5} TiO ₃ composite films with outstanding pyroelectric properties. Journal of Materials Chemistry C, 2016, 4, 4442-4450.	5.5	21
53	Nano iron oxide-deposited calcium copper titanate/polyimide hybrid films induced by an external magnetic field: toward a high dielectric constant and suppressed loss. Journal of Materials Chemistry C, 2016, 4, 8179-8188.	5.5	86
54	Microstructure and electric properties of Nb doping x(Ba _{0.7} Ca _{0.3})TiO ₃ -(1-x)Ba(Zr _{0.2} Ti _{0.8})O ₃ ceramics. Journal of Alloys and Compounds, 2016, 685, 936-940.	5.5	7

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55	Enhanced dielectric properties of poly(vinylidene fluoride) composites filled with nano iron oxide-deposited barium titanate hybrid particles. <i>Scientific Reports</i> , 2016, 6, 33508.	3.3	80
56	Low temperature growth of (100)-oriented Ba(Zr _{0.2} Ti _{0.8})O ₃ -0.5(Ba _{0.7} Ca _{0.3})TiO ₃ thin films using a LaNiO ₃ seed layer. <i>Journal of Alloys and Compounds</i> , 2016, 663, 818-822.	5.5	17
57	Effects of magnetic field treatment on dielectric properties of CCTO@Ni/PVDF composite with low concentration of ceramic fillers. <i>AIP Advances</i> , 2015, 5, .	1.3	17
58	Effect of particle size on the dielectric properties of 0.5Ba(Zr _{0.2} Ti _{0.8})O ₃ â€“0.5(Ba _{0.7} Ca _{0.8})TiO ₃ /polyvinylidene fluoride hybrid films. <i>Ceramics International</i> , 2015, 41, 15116-15121.	4.8	13
59	Ni-coated CaCu ₃ Ti ₄ O ₁₂ /low density polyethylene composite material with ultra-high dielectric permittivity. <i>AIP Advances</i> , 2015, 5, .	1.3	8
60	Interface diffusion and pyroelectric properties of Pb _{0.8} La _{0.1} Ca _{0.1} Ti _{0.975} O ₃ /(Na _{0.85} K _{0.15}) _{0.5} Bi _{0.5} TiO ₃ hierarchical composite thin films. <i>Ceramics International</i> , 2015, 41, 13767-13771.	4.8	1
61	Enhanced dielectric performance of amorphous calcium copper titanate/polyimide hybrid film. <i>Journal of Materials Chemistry C</i> , 2014, 2, 172-177.	5.5	115