

Tian-Dong Zhang

List of Publications by Year in descending order

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69
papers

2,965
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172207

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docs citations

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times ranked

1557
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy storage properties of P(VDF-TrFE)-based composite dielectrics with uniform and gradient-doped boron nitride nanosheets. <i>IET Nanodielectrics</i> , 2022, 5, 50-61.	2.0	13
2	Machine learning and microstructure design of polymer nanocomposites for energy storage application. <i>High Voltage</i> , 2022, 7, 242-250.	2.7	24
3	Double-gradients design of polymer nanocomposites with high energy density. <i>Energy Storage Materials</i> , 2022, 44, 73-81.	9.5	51
4	Investigations on the Electrical Performances of CuNPs/BN/EPDM Composites. <i>Journal of Electronic Materials</i> , 2022, 51, 1349-1357.	1.0	2
5	Thermal and Electrical Properties of Epoxy Composites Filled with 3D hBN/TOCNF Fillers. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	8
6	Polymer dielectric films exhibiting superior high-temperature capacitive performance by utilizing an inorganic insulation interlayer. <i>Materials Horizons</i> , 2022, 9, 1273-1282.	6.4	93
7	Interesting Influence of Different Inorganic Particles on the Energy Storage Performance of a Polyethersulfone-Based Dielectric Composite. <i>ACS Applied Energy Materials</i> , 2022, 5, 3545-3557.	2.5	13
8	High energy storage performance for flexible PbZrO ₃ thin films by seed layer engineering. <i>Ceramics International</i> , 2022, 48, 23840-23848.	2.3	10
9	Structure, dielectric, ferroelectric, and energy density properties of polyethersulfone-based composite for energy storage application. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 12884-12899.	1.1	3
10	Double gradient composite dielectric with high energy density and efficiency. <i>Journal of Materials Chemistry A</i> , 2022, 10, 15183-15195.	5.2	28
11	High Energy Storage Performance of All-Inorganic Flexible Antiferroelectric Insulator Multilayered Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28997-29006.	4.0	13
12	Heat-resistant and electrical properties of bismaleimide modified epoxy resin. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 17868-17876.	1.1	2
13	Polymer nanocomposites with excellent energy storage performances by utilizing the dielectric properties of inorganic fillers. <i>Chemical Engineering Journal</i> , 2021, 408, 127314.	6.6	61
14	High-temperature all-organic energy storage dielectric with the performance of self-adjusting electric field distribution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16384-16394.	5.2	65
15	Multiferroic Properties and Magnetic Anisotropy in P(VDF-TrFE) Composites with Oriented CoFe ₂ O ₄ Nanofibers. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8840-8852.	1.5	22
16	Study on the Energy Storage Performance of Al ₂ O ₃ /PVDF Hybrid Film Based on Sol Blending Doping Strategy. , 2021, , .		0
17	Electrical, mechanical and thermal properties of ZnO/SiR composite dielectric. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 17253-17265.	1.1	3
18	Recent Advances in Multilayer Structure Dielectrics for Energy Storage Application. <i>Advanced Science</i> , 2021, 8, e2102221.	5.6	105

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19	Effect of humidity on the microstructure and energy storage properties of polyetherimide. Applied Physics Letters, 2021, 119, .	1.5	7
20	Improved High-Temperature Energy Storage Performance of PEI Dielectric Films by Introducing an SiO ₂ Insulating Layer. Macromolecular Materials and Engineering, 2021, 306, 2100514.	1.7	24
21	Self-polarization and energy storage performance in antiferroelectric-insulator multilayer thin films. Composites Part B: Engineering, 2021, 221, 109027.	5.9	29
22	Improved Energy Storage Performance of P(VDF-TrFE-CFE) Multilayer Films by Utilizing Inorganic Functional Layers. ACS Applied Energy Materials, 2021, 4, 11726-11734.	2.5	9
23	Study on electrical properties of donor ZnO nanoparticles/EPDM composites. Journal of Materials Science: Materials in Electronics, 2021, 32, 26894-26904.	1.1	0
24	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.	1.1	2
25	High Temperature Dielectric Materials for Electrical Energy Storage. , 2021, , 653-674.		1
26	Significantly Improved Energy Storage Performance of PVDF Ferroelectric Films by Blending PMMA and Filling PCBM. ACS Sustainable Chemistry and Engineering, 2021, 9, 16291-16303.	3.2	42
27	Excellent Energy Storage of PVTC-Based Composites at Low Electric Field by Filling with Core-Shell CCTO@SiO ₂ Nanoparticles. , 2021, , .		1
28	Ultrahigh discharge efficiency and excellent energy density in oriented core-shell nanofiber-polyetherimide composites. Energy Storage Materials, 2020, 25, 180-192.	9.5	152
29	High energy storage density and efficiency in aligned nanofiber filled nanocomposites with multilayer structure. Composites Part B: Engineering, 2020, 198, 108206.	5.9	64
30	Excellent Energy Storage Performance of Ferroconcrete-like All-Organic Linear/Ferroelectric Polymer Films Utilizing Interface Engineering. ACS Applied Materials & Interfaces, 2020, 12, 56424-56434.	4.0	66
31	Improved energy storage performances of solution-processable ferroelectric polymer by modulating of microscopic and mesoscopic structure. Composites Part B: Engineering, 2020, 199, 108312.	5.9	14
32	Excellent energy storage performance for P(VDF-TrFE-CFE) composites by filling core-shell structured inorganic fibers. Journal of Materials Science: Materials in Electronics, 2020, 31, 21128-21141.	1.1	11
33	Improved Energy Storage Performance of All-Organic Composite Dielectric via Constructing Sandwich Structure. Polymers, 2020, 12, 1972.	2.0	30
34	Investigation of electrical properties of ZnO@Ag/EPDM composites. AIP Advances, 2020, 10, .	0.6	3
35	Enhanced Energy Storage Characteristics in PVDF-Based Nanodielectrics With Core-Shell Structured and Optimized Shape Fillers. IEEE Access, 2020, 8, 81542-81550.	2.6	30
36	Nonlinear conductivity and breakdown strength characteristics of silicon carbide and hexagonal boron nitride co-doped epoxy resin composites. AIP Advances, 2020, 10, .	0.6	8

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37	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.	1.5	52
38	Sandwich-structured polymers with electrospun boron nitrides layers as high-temperature energy storage dielectrics. <i>Chemical Engineering Journal</i> , 2020, 389, 124443.	6.6	143
39	Designing coexisting multi-phases in PZT multilayer thin films: an effective way to induce large electrocaloric effect. <i>RSC Advances</i> , 2020, 10, 6603-6608.	1.7	8
40	Improved Energy Storage Density in Polymethyl Methacrylate Nanocomposites by Filling with High Aspect Ratio BaSrTiO ₃ Nanofibers. , 2020, , .		0
41	Study on nonlinear conductivity of copper-titanate-calcium/liquid silicone rubber composites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019, 26, 681-688.	1.8	4
42	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.	8.2	89
43	Designing of surface modification and sandwich structure: effective routs to improve energy storage property in polyimide-based composite films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19956-19965.	1.1	18
44	Study on Nonlinear Conductivity and Breakdown Characteristics of Zinc Oxide Nano Sheets/EPDM Composites. , 2019, , .		1
45	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.	5.9	89
46	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.	1.1	8
47	Study on nonlinear conductivity of copper-titanate-calcium/liquid silicone rubber composites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019, 26, 681-688.	1.8	8
48	Effect of nano-fillers on nonlinear conduction and DC breakdown characteristics of epoxy composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 10293-10301.	1.1	5
49	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.	2.7	74
50	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.	1.7	22
51	High energy storage density at low electric field of ABO ₃ antiferroelectric films with ionic pair doping. <i>Energy Storage Materials</i> , 2019, 18, 238-245.	9.5	61
52	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.	8.2	289
53	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.	3.2	88
54	Microstructures and energy storage property of sandwiched BZT-BCT@Fe ₃ O ₄ /polyimide composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1-8.	1.1	46

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55	Structure-Property Relationships: High Energy Storage Performance of Opposite Double-Heterojunction Ferroelectricity-Insulators (Adv. Funct. Mater. 10/2018). Advanced Functional Materials, 2018, 28, 1870066.	7.8	2
56	High Energy Storage Performance of Opposite Double-Heterojunction Ferroelectricity-Insulators. Advanced Functional Materials, 2018, 28, 1706211.	7.8	117
57	Polymer/metal multi-layers structured composites: A route to high dielectric constant and suppressed dielectric loss. Applied Physics Letters, 2018, 112, .	1.5	47
58	Sandwich-Structured PVDF-Based Composite Incorporated with Hybrid $\text{Fe}_3\text{O}_4/\text{BN}$ Nanosheets for Excellent Dielectric Properties and Energy Storage Performance. Journal of Physical Chemistry C, 2018, 122, 1500-1512.	1.5	108
59	Giant electrocaloric effect in compositionally graded PZT multilayer thin films. Journal of Alloys and Compounds, 2018, 731, 489-495.	2.8	19
60	Excellent Energy Storage of Sandwich-Structured PVDF-Based Composite at Low Electric Field by Introduction of the Hybrid $\text{CoFe}_2\text{O}_4/\text{BZT}$ BCT Nanofibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 403-412.	3.2	110
61	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.	2.5	70
62	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.	1.1	15
63	Effect of TiO_2 size factor on the electrical properties of polyethylene matrix dielectrics. Results in Physics, 2018, 11, 52-57.	2.0	5
64	High Energy Storage Density for Poly(vinylidene fluoride) Composites by Introduced Core-Shell $\text{CaCu}_3\text{Ti}_4\text{O}_{12}/\text{Al}_2\text{O}_3$ Nanofibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 8641-8649.	3.2	112
65	High-energy storage density and excellent temperature stability in antiferroelectric/ferroelectric bilayer thin films. Journal of the American Ceramic Society, 2017, 100, 3080-3087.	1.9	66
66	Mn doping to enhance energy storage performance of lead-free 0.7NBT-0.3ST thin films with weak oxygen vacancies. Applied Physics Letters, 2017, 110, .	1.5	97
67	Giant electrocaloric effect in PZT bilayer thin films by utilizing the electric field engineering. Applied Physics Letters, 2016, 108, 162902.	1.5	38
68	Positive/negative electrocaloric effect induced by defect dipoles in PZT ferroelectric bilayer thin films. RSC Advances, 2016, 6, 71934-71939.	1.7	36
69	High-energy Storage Density and Efficiency of $(1-x)\text{PZT}x\text{ST}$ Lead-Free Ceramics. Energy Technology, 2015, 3, 1198-1204.	1.8	109