Yifei Wang

List of Publications by Year in descending order

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60 papers	3,554 citations	236925 25 h-index	206112 48 g-index
61 all docs	61 docs citations	61 times ranked	1938 citing authors

#	Article	IF	Citations
1	Significantly Enhanced Breakdown Strength and Energy Density in Sandwichâ€Structured Barium Titanate/Poly(vinylidene fluoride) Nanocomposites. Advanced Materials, 2015, 27, 6658-6663.	21.0	525
2	Simultaneously achieved temperature-insensitive high energy density and efficiency in domain engineered BaTiO3-Bi(Mg0.5Zr0.5)O3 lead-free relaxor ferroelectrics. Nano Energy, 2018, 52, 203-210.	16.0	410
3	Relaxor ferroelectric 0.9BaTiO₃â€“0.1Bi(Zn_{0.5}Zr_{0.5})O₃ceramic capacitors with high energy density and temperature stable energy storage properties. Journal of Materials Chemistry C, 2017, 5, 9552-9558.	5.5	241
4	Ultrahigh energy density and greatly enhanced discharged efficiency of sandwich-structured polymer nanocomposites with optimized spatial organization. Nano Energy, 2018, 44, 364-370.	16.0	241
5	Compositional tailoring effect on electric field distribution for significantly enhanced breakdown strength and restrained conductive loss in sandwich-structured ceramic/polymer nanocomposites. Journal of Materials Chemistry A, 2017, 5, 4710-4718.	10.3	217
6	Ultrahigh electric displacement and energy density in gradient layer-structured BaTiO₃/PVDF nanocomposites with an interfacial barrier effect. Journal of Materials Chemistry A, 2017, 5, 10849-10855.	10.3	197
7	Multilayered ferroelectric polymer films incorporating low-dielectric-constant components for concurrent enhancement of energy density and chargeâ€“discharge efficiency. Nano Energy, 2018, 54, 288-296.	16.0	161
8	Multilayered hierarchical polymer composites for high energydensity capacitors. Journal of Materials Chemistry A, 2019, 7, 2965-2980.	10.3	153
9	Gradient-layered polymer nanocomposites with significantly improved insulation performance for dielectric energy storage. Energy Storage Materials, 2020, 24, 626-634.	18.0	137
10	Effect of the Modifier Structure on the Performance of Barium Titanate/Poly(vinylidene fluoride) Nanocomposites for Energy Storage Applications. ACS Applied Materials & Interfaces, 2015, 7, 24168-24176.	8.0	133
11	Flexible Temperatureâ€Invariant Polymer Dielectrics with Large Bandgap. Advanced Materials, 2020, 32, e2000499.	21.0	128
12	Bioinspired Hierarchically Structured Allâ€Inorganic Nanocomposites with Significantly Improved Capacitive Performance. Advanced Functional Materials, 2020, 30, 2000191.	14.9	88
13	Ultrahigh discharge efficiency and energy density achieved at low electric fields in sandwich-structured polymer films containing dielectric elastomers. Journal of Materials Chemistry A, 2019, 7, 3729-3736.	10.3	85
14	Frequency-dependent dielectric constant prediction of polymers using machine learning. Npj Computational Materials, 2020, 6, .	8.7	75
15	High-temperature dielectric polymer nanocomposites with interposed montmorillonite nanosheets. Chemical Engineering Journal, 2020, 401, 126093.	12.7	65
16	Significant enhancement in breakdown strength and energy density of the BaTiO3/BaTiO3@SiO2 layered ceramics with strong interface blocking effect. Journal of the European Ceramic Society, 2017, 37, 4645-4652.	5.7	61
17	High Thermal Stability and Photoluminescence of Siâ€“Nâ€Codoped BaMgAl₁₀O₁₇:Eu²⁺Phosphors. Journal of the American Ceramic Society, 2010, 93, 1534-1536.	3.8	59
18	Sandwich structured poly(vinylidene fluoride)/polyacrylate elastomers with significantly enhanced electric displacement and energy density. Journal of Materials Chemistry A, 2018, 6, 24367-24377.	10.3	54

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19	Effect of the coverage level of carboxylic acids as a modifier for barium titanate nanoparticles on the performance of poly(vinylidene fluoride)-based nanocomposites for energy storage applications. Physical Chemistry Chemical Physics, 2018, 20, 6598-6605.	2.8	43
20	Significantly improved breakdown strength and energy density of tri-layered polymer nanocomposites with optimized graphene oxide. Composites Science and Technology, 2020, 186, 107912.	7.8	43
21	All-organic flexible fabric antenna for wearable electronics. Journal of Materials Chemistry C, 2020, 8, 5662-5667.	5.5	43
22	Dielectric, ferroelectric and energy storage properties of lead-free (1-x)Ba0.9Sr0.1TiO3-xBi(Zn0.5Zr0.5)O3 ferroelectric ceramics sintered at lower temperature. Ceramics International, 2019, 45, 15556-15565.	4.8	39
23	Polyamideimide dielectric with montmorillonite nanosheets coating for high-temperature energy storage. Chemical Engineering Journal, 2022, 437, 135430.	12.7	32
24	Tuning Surface States of Metal/Polymer Contacts Toward Highly Insulating Polymer-Based Dielectrics. ACS Applied Materials & Interfaces, 2021, 13, 46142-46150.	8.0	31
25	Flexible mica films for high-temperature energy storage. Journal of Materiomics, 2018, 4, 173-178.	5.7	26
26	Excellent comprehensive energy storage capabilities achieved in linear polymer composites via inserting acrylic rubber dielectric elastomers. Journal of Materials Chemistry C, 2021, 9, 5000-5007.	5.5	26
27	Ultrahigh energy storage density at low operating field strength achieved in multicomponent polymer dielectrics with hierarchical structure. Composites Science and Technology, 2021, 201, 108557.	7.8	25
28	Electrotunable liquid sulfurÂmicrodroplets. Nature Communications, 2020, 11, 606.	12.8	22
29	Computable Bulk and Interfacial Electronic Structure Features as Proxies for Dielectric Breakdown of Polymers. ACS Applied Materials & Interfaces, 2020, 12, 37182-37187.	8.0	21
30	Nanocomposites: Significantly Enhanced Breakdown Strength and Energy Density in Sandwichâ€Structured Barium Titanate/Poly(vinylidene fluoride) Nanocomposites (Adv. Mater. 42/2015). Advanced Materials, 2015, 27, 6657-6657.	21.0	18
31	Molecular Engineering: Flexible Temperatureâ€Invariant Polymer Dielectrics with Large Bandgap (Adv.) Tj ETQq1 1 0.784314 rgBT /Overl	21.0	17
32	Microstructure and dielectric properties of Ti0.995(In0.5Nb0.5)0.005O2/SrO-B2O3-SiO2 glass-ceramics for energy storage. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 712-719.	2.9	15
33	Development of an arc root model for studying the electrode vaporization and its influence on arc dynamics. AIP Advances, 2020, 10, .	1.3	15
34	Novel high voltage polymer insulators using computational and data-driven techniques. Journal of Chemical Physics, 2021, 154, 174906.	3.0	12
35	3D computational study of arc splitting during power interruption: the influence of metal vapor enhanced radiation on arc dynamics. Journal Physics D: Applied Physics, 2021, 54, 085502.	2.8	12
36	Enhanced dielectric performance in flexible MWCNT/poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (fluoride-co-hexafluoro of Materials Chemistry C, 2020, 8, 5950-5957.	5.5	10

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37	Materials Compatibility Study of C₄F₇N/CO₂ Gas Mixture for Medium-Voltage Switchgear. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 270-278.	2.9	10
38	Barrier heights of polymer-electrode interfaces measured via photo injection current method. Surfaces and Interfaces, 2021, 24, 101070.	3.0	8
39	Scalable self-assembly interfacial engineering for high-temperature dielectric energy storage. IScience, 2022, 25, 104601.	4.1	7
40	Superior capacitive energy storage capability in polymer composites induced by polydopamine-coated paraelectric platelets. Journal of Materials Science, 2021, 56, 9395-9407.	3.7	6
41	High Breakdown Strength and Energy Storage Density in Aligned SrTiO3@SiO2 Coreâ€“Shell Platelets Incorporated Polymer Composites. Membranes, 2021, 11, 756.	3.0	6
42	Remarks on the Design of Flexible High-Temperature Polymer Dielectrics for Emerging Grand Electrification - Exemplified by Poly(oxa)norbornenes. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1468-1470.	2.9	5
43	Research Advances in Hierarchically Structured PVDF-Based All-Organic Composites for High-Energy Density Capacitors. Membranes, 2022, 12, 274.	3.0	5
44	Deep Well Trapping of Hot Carriers in a Hexagonal Boron Nitride Coating of Polymer Dielectrics. ACS Applied Materials & Interfaces, 2021, 13, 60393-60400.	8.0	5
45	Temperature-induced double P-E loops and improved energy storage performances of BaTiO3-based ceramics sintered at lower temperature. Journal of Electroceramics, 2019, 43, 96-105.	2.0	4
46	Influence of ZnO Nanoparticles on the Light Absorption Spectrum of PMMA for Ablation Dominated Arc Interruption. , 2020, , .		4
47	High Electric Field Conduction of Polymers at Ambient and Elevated Temperatures. , 2019, , .		3
48	Temperature-dependent breakdown and pre-breakdown conduction of polyethylene terephthalate. Journal Physics D: Applied Physics, 2022, 55, 365302.	2.8	3
49	Integrity of novel high-performance nanostructured insulation for high torque density propulsions. , 2019, , .		2
50	Enhancing corona resistance in Kapton with self-assembled two-dimensional montmorillonite nanocoatings. Materials Advances, 2022, 3, 3853-3861.	5.4	2
51	Hybrid motion artifact detection and correction approach for functional near-infrared spectroscopy measurements. Journal of Biomedical Optics, 2022, 27, .	2.6	2
52	Allâ€inorganic Nanocomposites: Bioinspired Hierarchically Structured Allâ€inorganic Nanocomposites with Significantly Improved Capacitive Performance (Adv. Funct. Mater. 23/2020). Advanced Functional Materials, 2020, 30, 2070149.	14.9	1
53	Endurance life of nanostructured insulation material for high torque density propulsion motors. , 2021, , .		1
54	Discharge behavior of the nanostructured insulation material for high torque density electrical propulsion. , 2019, , .		0

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55	Enhanced Electrical Breakdown Strength in Nano-coatings of Polymer Composites. , 2019, , .		0
56	Sandwiched Barium Titanate/Polyamideimide Nanocomposite for Dielectric Energy Storage. , 2020, , .		0
57	Novel nanocomposite thin film for arc ablation resistance. , 2021, , .		0
58	Enhanced dielectric and electrical properties of high-temperature polymers with 2D nanocoatings. , 2021, , .		0
59	Compatibility of Molecular Sieves with C₄F₇N/CO₂ Insulating Gas Mixture. , 2021, , .		0
60	In Situ Topochemically Converted 2-D BaTiO3 Polycrystals with Multifarious Zone Axes. Materials Advances, 0, , .	5.4	0