

Yifei Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2801305/publications.pdf>

Version: 2024-02-01

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	Materials Compatibility Study of C ₄ F ₇ N/CO ₂ Gas Mixture for Medium-Voltage Switchgear. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 270-278.	2.9	10
2	Enhancing corona resistance in Kapton with self-assembled two-dimensional montmorillonite nanocoatings. Materials Advances, 2022, 3, 3853-3861.	5.4	2
3	Research Advances in Hierarchically Structured PVDF-Based All-Organic Composites for High-Energy Density Capacitors. Membranes, 2022, 12, 274.	3.0	5
4	Hybrid motion artifact detection and correction approach for functional near-infrared spectroscopy measurements. Journal of Biomedical Optics, 2022, 27, .	2.6	2
5	Polyamideimide dielectric with montmorillonite nanosheets coating for high-temperature energy storage. Chemical Engineering Journal, 2022, 437, 135430.	12.7	32
6	Temperature-dependent breakdown and pre-breakdown conduction of polyethylene terephthalate. Journal Physics D: Applied Physics, 2022, 55, 365302.	2.8	3
7	Scalable self-assembly interfacial engineering for high-temperature dielectric energy storage. IScience, 2022, 25, 104601.	4.1	7
8	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
9	Excellent comprehensive energy storage capabilities achieved in linear polymer composites <i>via</i> inserting acrylic rubber dielectric elastomers. Journal of Materials Chemistry C, 2021, 9, 5000-5007.	5.5	26
10	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
11	Novel high voltage polymer insulators using computational and data-driven techniques. Journal of Chemical Physics, 2021, 154, 174906.	3.0	12
12	Barrier heights of polymer-electrode interfaces measured via photo injection current method. Surfaces and Interfaces, 2021, 24, 101070.	3.0	8
13	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
14	Endurance life of nanostructured insulation material for high torque density propulsion motors. , 2021, , .		1
15	Tuning Surface States of Metal/Polymer Contacts Toward Highly Insulating Polymer-Based Dielectrics. ACS Applied Materials & Interfaces, 2021, 13, 46142-46150.	8.0	31
16	High Breakdown Strength and Energy Storage Density in Aligned SrTiO ₃ @SiO ₂ Core-Shell Platelets Incorporated Polymer Composites. Membranes, 2021, 11, 756.	3.0	6
17	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
18	Novel nanocomposite thin film for arc ablation resistance. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	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
20	Enhanced dielectric and electrical properties of high-temperature polymers with 2D nanocoatings. , 2021, , .		0
21	Compatibility of Molecular Sieves with C ₄ F ₇ N/CO ₂ Insulating Gas Mixture. , 2021, , .		0
22	Gradient-layered polymer nanocomposites with significantly improved insulation performance for dielectric energy storage. Energy Storage Materials, 2020, 24, 626-634.	18.0	137
23	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
24	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
25	Development of an arc root model for studying the electrode vaporization and its influence on arc dynamics. AIP Advances, 2020, 10, .	1.3	15
26	Frequency-dependent dielectric constant prediction of polymers using machine learning. Npj Computational Materials, 2020, 6, .	8.7	75
27	Molecular Engineering: Flexible Temperature-Invariant Polymer Dielectrics with Large Bandgap (Adv. Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (fluoride-c	21.0	17
28	All-Inorganic Nanocomposites: Bioinspired Hierarchically Structured All-Inorganic Nanocomposites with Significantly Improved Capacitive Performance (Adv. Funct. Mater. 23/2020). Advanced Functional Materials, 2020, 30, 2070149.	14.9	1
29	Enhanced dielectric performance in flexible MWCNT/poly(vinylidene of Materials Chemistry C, 2020, 8, 5950-5957.	5.5	10
30	All-organic flexible fabric antenna for wearable electronics. Journal of Materials Chemistry C, 2020, 8, 5662-5667.	5.5	43
31	Bioinspired Hierarchically Structured All-Inorganic Nanocomposites with Significantly Improved Capacitive Performance. Advanced Functional Materials, 2020, 30, 2000191.	14.9	88
32	Flexible Temperature-Invariant Polymer Dielectrics with Large Bandgap. Advanced Materials, 2020, 32, e2000499.	21.0	128
33	High-temperature dielectric polymer nanocomposites with interposed montmorillonite nanosheets. Chemical Engineering Journal, 2020, 401, 126093.	12.7	65
34	Electrotunable liquid sulfur-microdroplets. Nature Communications, 2020, 11, 606.	12.8	22
35	Sandwiched Barium Titanate/Polyamideimide Nanocomposite for Dielectric Energy Storage. , 2020, , .		0
36	Influence of ZnO Nanoparticles on the Light Absorption Spectrum of PMMA for Ablation Dominated Arc Interruption. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
37	Integrity of novel high-performance nanostructured insulation for high torque density propulsions. , 2019, , .		2
38	Temperature-induced double P-E loops and improved energy storage performances of BaTiO ₃ -based ceramics sintered at lower temperature. Journal of Electroceramics, 2019, 43, 96-105.	2.0	4
39	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
40	Multilayered hierarchical polymer composites for high energy density capacitors. Journal of Materials Chemistry A, 2019, 7, 2965-2980.	10.3	153
41	Dielectric, ferroelectric and energy storage properties of lead-free (1-x)Ba _{0.9} Sr _{0.1} TiO _{3-x} Bi(Zn _{0.5} Zr _{0.5})O ₃ ferroelectric ceramics sintered at lower temperature. Ceramics International, 2019, 45, 15556-15565.	4.8	39
42	Discharge behavior of the nanostructured insulation material for high torque density electrical propulsion. , 2019, , .		0
43	Enhanced Electrical Breakdown Strength in Nano-coatings of Polymer Composites. , 2019, , .		0
44	High Electric Field Conduction of Polymers at Ambient and Elevated Temperatures. , 2019, , .		3
45	Flexible mica films for high-temperature energy storage. Journal of Materiomics, 2018, 4, 173-178.	5.7	26
46	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
47	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
48	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
49	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
50	Simultaneously achieved temperature-insensitive high energy density and efficiency in domain engineered BaTiO ₃ -Bi(Mg _{0.5} Zr _{0.5})O ₃ lead-free relaxor ferroelectrics. Nano Energy, 2018, 52, 203-210.	16.0	410
51	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
52	Ultrahigh electric displacement and energy density in gradient layer-structured BaTiO ₃ /PVDF nanocomposites with an interfacial barrier effect. Journal of Materials Chemistry A, 2017, 5, 10849-10855.	10.3	197
53	Microstructure and dielectric properties of Ti _{0.995} (In _{0.5} Nb _{0.5}) _{0.005} O ₂ /SrO-B ₂ O ₃ -SiO ₂ glass-ceramics for energy storage. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 712-719.	2.9	15
54	Relaxor ferroelectric 0.9BaTiO ₃ â€0.1Bi(Zn _{0.5} Zr _{0.5})O ₃ ceramic capacitors with high energy density and temperature stable energy storage properties. Journal of Materials Chemistry C, 2017, 5, 9552-9558.	5.5	241

#	ARTICLE	IF	CITATIONS
55	Significant enhancement in breakdown strength and energy density of the BaTiO ₃ /BaTiO ₃ @SiO ₂ layered ceramics with strong interface blocking effect. Journal of the European Ceramic Society, 2017, 37, 4645-4652.	5.7	61
56	Nanocomposites: Significantly Enhanced Breakdown Strength and Energy Density in Sandwich-Structured Barium Titanate/Poly(vinylidene fluoride) Nanocomposites (Adv. Mater. 42/2015). Advanced Materials, 2015, 27, 6657-6657.	21.0	18
57	Significantly Enhanced Breakdown Strength and Energy Density in Sandwich-Structured Barium Titanate/Poly(vinylidene fluoride) Nanocomposites. Advanced Materials, 2015, 27, 6658-6663.	21.0	525
58	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
59	High Thermal Stability and Photoluminescence of Na-Codoped BaMgAl ₁₀ O ₁₇ :Eu ²⁺ Phosphors. Journal of the American Ceramic Society, 2010, 93, 1534-1536.	3.8	59
60	In Situ Topochemically Converted 2-D BaTiO ₃ Polycrystals with Multifarious Zone Axes. Materials Advances, 0, , .	5.4	0