

Shuhui Yu

List of Publications by Year in descending order

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67
papers

2,265
citations

257101

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214527

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docs citations

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times ranked

2031
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano Ag-Deposited BaTiO ₃ Hybrid Particles as Fillers for Polymeric Dielectric Composites: Toward High Dielectric Constant and Suppressed Loss. ACS Applied Materials & Interfaces, 2014, 6, 176-182.	4.0	275
2	Construction of a 3D-BaTiO ₃ network leading to significantly enhanced dielectric permittivity and energy storage density of polymer composites. Energy and Environmental Science, 2017, 10, 137-144.	15.6	265
3	Significantly Enhanced Electrostatic Energy Storage Performance of Flexible Polymer Composites by Introducing Highly Insulating Ferroelectric Microhybrids as Fillers. Advanced Energy Materials, 2019, 9, 1803204.	10.2	250
4	Nano- and microsize effect of CCTO fillers on the dielectric behavior of CCTO/PVDF composites. Acta Materialia, 2011, 59, 5593-5602.	3.8	224
5	BaTiO ₃ internally decorated hollow porous carbon hybrids as fillers enhancing dielectric and energy storage performance of sandwich-structured polymer composite. Nano Energy, 2020, 68, 104351.	8.2	71
6	Mechanism of high dielectric performance of polymer composites induced by BaTiO ₃ -supporting Ag hybrid fillers. Applied Physics Letters, 2014, 104, .	1.5	65
7	Effects of poly(ethylene glycol) additive molecular weight on the microstructure and properties of sol-gel-derived lead zirconate titanate thin films. Journal of Materials Research, 2003, 18, 737-741.	1.2	54
8	Electrical modulus analysis on the Ni/CCTO/PVDF system near the percolation threshold. Journal Physics D: Applied Physics, 2011, 44, 475305.	1.3	53
9	Mechanical reinforcement while remaining electrical insulation of glass fibre/polymer composites using core-shell CNT@SiO ₂ hybrids as fillers. Composites Part A: Applied Science and Manufacturing, 2015, 73, 260-268.	3.8	50
10	Toward high-performance all-solid-state supercapacitors using facilely fabricated graphite nanosheet-supported CoMoS ₄ as electrode material. Chemical Engineering Journal, 2019, 355, 891-900.	6.6	50
11	Enhancement of dielectric breakdown strength and energy storage of all-polymer films by surface flattening. Chemical Engineering Journal, 2021, 412, 128476.	6.6	49
12	Enhanced breakdown strength of polymer composites by low filler loading and its mechanisms. Applied Physics Letters, 2017, 111, .	1.5	47
13	A systematic study on electrical properties of the BaTiO ₃ -epoxy composite with different sized BaTiO ₃ as fillers. Journal of Alloys and Compounds, 2015, 620, 315-323.	2.8	44
14	Microstructure and dielectric behavior of the three-phase Ag@SiO ₂ /BaTiO ₃ /PVDF composites with high permittivity. Journal of Materials Research, 2012, 27, 991-998.	1.2	42
15	Microstructure and electrical properties of Mn-doped barium strontium titanate thin films prepared on copper foils. Applied Surface Science, 2010, 256, 6531-6535.	3.1	39
16	Shape-controlled synthesis of CoMoO ₄ @Co _{1.5} Ni _{1.5} S ₄ hybrids with rambutan-like structure for high-performance all-solid-state supercapacitors. Chemical Engineering Journal, 2018, 346, 193-202.	6.6	39
17	Effects of BaTiO ₃ and FeAlSi as fillers on the magnetic, dielectric and microwave absorption characteristics of the epoxy-based composites. Ceramics International, 2012, 38, 3553-3562.	2.3	38
18	Nanoparticles with rationally designed isoelectronic traps as fillers significantly enhance breakdown strength and electrostatic energy density of polymer composites. Composites Science and Technology, 2020, 195, 108201.	3.8	33

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19	Thermal behavior and dielectric property analysis of boron nitride-filled bismaleimide-triazine resin composites. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1353-1359.	1.3	32
20	Investigation of nonlinear I-V behavior of CNTs filled polymer composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 206, 55-60.	1.7	32
21	Clean and in-situ synthesis of copper-epoxy nanocomposite as a matrix for dielectric composites with improved dielectric performance. <i>Composites Science and Technology</i> , 2015, 110, 95-102.	3.8	31
22	Enhancement of dielectric performance upto GHz of the composites with polymer encapsulated hybrid BaTiO ₃ -Cu as fillers: multiple interfacial polarizations playing a key role. <i>RSC Advances</i> , 2016, 6, 36450-36458.	1.7	29
23	Preparation of perovskite Pb(Zn _{1-x} Nb _{2x-3})O ₃ -based thin films from polymer-modified solution precursors. <i>Applied Physics Letters</i> , 2006, 88, 052904.	1.5	28
24	Critical interparticle distance for the remarkably enhanced dielectric constant of BaTiO ₃ -Ag hybrids filled polyvinylidene fluoride composites. <i>Applied Physics Letters</i> , 2014, 104, 252903.	1.5	26
25	Surface-modified barium titanate by MEEAA for high-energy storage application of polymer composites. <i>High Voltage</i> , 2016, 1, 175-180.	2.7	24
26	Significantly enhanced dielectric and energy storage performance of blend polymer-based composites containing inorganic 3D-network. <i>Materials and Design</i> , 2018, 142, 106-113.	3.3	24
27	Effects and mechanism of graft modification on the dielectric performance of polymer-matrix composites. <i>Composites Science and Technology</i> , 2013, 89, 127-133.	3.8	22
28	High energy density polymer nanocomposites with Y-doped barium strontium titanate nanoparticles as fillers. <i>IET Nanodielectrics</i> , 2018, 1, 137-142.	2.0	22
29	Advanced hybrid membrane for vanadium redox flow battery created by polytetrafluoroethylene layer and functionalized silicon carbide nanowires. <i>Chemical Engineering Journal</i> , 2022, 427, 131413.	6.6	22
30	ZnO-Decorated Carbon Nanotube Hybrids as Fillers Leading to Reversible Nonlinear I-V Behavior of Polymer Composites for Device Protection. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35545-35551.	4.0	21
31	Toward High Micro-Supercapacitive Performance by Constructing Graphene-Supported NiMoS ₄ Hybrid Materials on 3D Current Collectors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19779-19786.	3.2	21
32	Structure and Properties of (1-x)PZN-xPT Thin Films with Perovskite Phase Promoted by Polyethylene Glycol. <i>Chemistry of Materials</i> , 2006, 18, 5343-5350.	3.2	20
33	Simultaneously Enhanced Permittivity and Electric Breakdown Strength of Polyacrylonitrile Composites by Introducing Ultralow Content BaSrTiO ₃ Nanofibers. <i>Advanced Engineering Materials</i> , 2019, 21, 1900817.	1.6	20
34	Enhanced electrocaloric effect for refrigeration in lead-free polymer composite films with an optimal filler loading. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	20
35	Elaborately fabricated polytetrafluoroethylene film exhibiting superior high-temperature energy storage performance. <i>Applied Materials Today</i> , 2020, 21, 100882.	2.3	20
36	Optimizing electric field distribution via tuning cross-linked point size for improving the dielectric properties of polymer nanocomposites. <i>Nanoscale</i> , 2020, 12, 12416-12425.	2.8	20

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37	In Situ Grown Tungsten Trioxide Nanoparticles on Graphene Oxide Nanosheet to Regulate Ion Selectivity of Membrane for High Performance Vanadium Redox Flow Battery. <i>Advanced Functional Materials</i> , 2022, 32, 2109427.	7.8	20
38	A facile and clean process for exfoliating MoS ₂ nanosheets assisted by a surface active agent in aqueous solution. <i>Nanotechnology</i> , 2018, 29, 425702.	1.3	15
39	Genome sequence of the Chinese white wax scale insect <i>Ericerus pela</i> : the first draft genome for the Coccidae family of scale insects. <i>GigaScience</i> , 2019, 8, .	3.3	15
40	Increased effective piezoelectric response of structurally modulated P(VDF-TrFE) film devices for effective energy harvesters. <i>Materials and Design</i> , 2020, 192, 108700.	3.3	15
41	Effect of functionalized multiwall carbon nanotubes on the curing kinetics and reaction mechanism of bismaleimide-triazine. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 387-395.	2.0	14
42	Investigating the mechanism of catalytic reduction of silver nitrate on the surface of barium titanate at room temperature: oxygen vacancies play a key role. <i>RSC Advances</i> , 2015, 5, 3377-3380.	1.7	11
43	KCl-assisted, chemically reduced graphene oxide for high-performance supercapacitor electrodes. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 3635-3641.	1.2	9
44	Thermally Self-Healable Titanium Dioxide/Polyurethane Nanocomposites with Recoverable Mechanical and Dielectric Properties. <i>Macromolecular Research</i> , 2020, 28, 373-381.	1.0	9
45	Microstructure and electrical properties of Ba _{0.5} Sr _{0.5} TiO ₃ thin films prepared on copper foils with La ₂ O ₃ buffer layers. <i>Applied Surface Science</i> , 2009, 255, 8319-8323.	3.1	8
46	A Compact Low-Pass Filter Based on the Fe ₃ O ₄ @SiO ₂ -CCTO-Epoxy Composite Film. <i>Integrated Ferroelectrics</i> , 2013, 142, 61-72.	0.3	6
47	Formation of cerium oxide hollow spheres and investigation of hollowing mechanism. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	5
48	Complete nucleotide sequence of a novel alphapartitivirus from <i>Rhizoctonia solani</i> AG-4 HG III isolate SM03. <i>Archives of Virology</i> , 2022, 167, 953-957.	0.9	5
49	Observations and Analyses on the Thermal Stability of (1 ̂) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (<i>x</i>)</i>Pb(Zn_s Chemistry of Materials, 2007, 19, 4373-4377.	3.2	4
50	Oxidation resistant core-shell Cu@SiO ₂ /inf>2</inf> nanowires for composites with high dielectric performance. , 2016, , .		2
51	Flexible BaTiO ₃ /SiC@PbTiO ₃ /epoxy composite films with enhanced dielectric performance at high frequency. <i>Ceramics International</i> , 2022, 48, 20102-20109.	2.3	2
52	Fabricating 3D BT-BN/epoxy Composites with High Dielectric Performance. , 2018, , .		1
53	Hybrid particles of Ag nanoparticles embedded in (Ba _{0.6} Sr _{0.4})TiO ₃ fibers as fillers in polyvinylidene fluoride composites leading to excellent dielectric property. , 2020, , .		1
54	Protonation of g-C ₃ N ₄ and its temperature-sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 6190-6200.	1.1	1

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55	Preparation and dielectric properties of BaTiO ₃ @PANI filled PVDF composites. , 2013, , .		0
56	Low loss CCTO@Fe ₃ O ₄ /epoxy composites with matched permeability and permittivity for high frequency applications. , 2015, , .		0
57	Improved permittivity and breakdown strength of PVDF composites filled with TiO ₂ -SrTiO ₃ hybrids. , 2017, , .		0
58	The Cu@SiO ₂ core-shell nanoparticles filled polyvinylidene fluoride nanocomposites film: Fabrication, characterization and dielectric property analysis. , 2017, , .		0
59	Dielectric properties of epoxy nanocomposites filled with copper oxides. , 2017, , .		0
60	Dielectric and energy storage behavior of PVDF composite film filled with graphene quantum dots decorated BaTiO ₃ . , 2018, , .		0
61	Effect of ZnS size on the dielectric and energy storage properties of ZnS/polymer composites. , 2018, , .		0
62	Core-Shell Structural Fillers to High Energy Storage Dielectric Polymer Materials. , 2018, , 199-245.		0
63	Dielectric self-healing BNNS/PU nanocomposites based on DA chemistry. , 2019, , .		0
64	Electrochemically Etched Tantalum Foils as Anode for Tantalum Electrolytic Capacitors. , 2020, , .		0
65	Self-healable and mechanically reinforced polyurethane/titanium dioxide dielectric nanocomposites by exchangeable disulfide links. , 2020, , .		0
66	An Epoxy Composite Film for Modified Semi-Addictive Process. , 2021, , .		0
67	Effect of grain size on dielectric properties and reliability for ultra-thin MLCCs. , 2021, , .		0