Yunhe Zhang

List of Publications by Year
in descending order

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65 papers	1,346 citations	331670 21 h-index	395702 33 g-index
68 all docs	68 docs citations	68 times ranked	1164 citing authors

#	Article	IF	Citations
1	High-k Polymer Nanocomposites Filled with Hyperbranched Phthalocyanine-Coated BaTiO₃ for High-Temperature and Elevated Field Applications. ACS Applied Materials & Interfaces, 2018, 10, 11233-11241.	8.0	82
2	Bioinspired Polymer Nanocomposites Exhibit Giant Energy Density and High Efficiency at High Temperature. Small, 2019, 15, e1901582.	10.0	75
3	Interfaceâ€Strengthened Polymer Nanocomposites with Reduced Dielectric Relaxation Exhibit High Energy Density at Elevated Temperatures Utilizing a Facile Dual Crosslinked Network. Small, 2020, 16, e2000714.	10.0	64
4	Novel soluble fluorinated poly(ether imide)s with different pendant groups: Synthesis, thermal, dielectric, and optical properties. Journal of Polymer Science Part A, 2010, 48, 3281-3289.	2.3	63
5	Crosslinked dielectric materials for high-temperature capacitive energy storage. Journal of Materials Chemistry A, 2021, 9, 10000-10011.	10.3	63
6	Decreasing the dielectric constant and water uptake by introducing hydrophobic cross-linked networks into co-polyimide films. Applied Surface Science, 2019, 480, 990-997.	6.1	62
7	Pendant-group cross-linked highly sulfonated co-polyimides for proton exchange membranes. Journal of Membrane Science, 2015, 480, 83-92.	8.2	47
8	Highly sulfonated co-polyimides containing hydrophobic cross-linked networks as proton exchange membranes. Polymer Chemistry, 2016, 7, 4728-4735.	3.9	38
9	Rational Design of Soluble Polyaramid for Highâ€Efficiency Energy Storage Dielectric Materials at Elevated Temperatures. Macromolecular Materials and Engineering, 2020, 305, 1900820.	3.6	38
10	Enhanced Discharged Efficiency and High Energy Density at Elevated Temperature in Polymer Dielectric via Manipulating Relaxation Behavior. CCS Chemistry, 2020, 2, 1169-1177.	7.8	38
11	Microporous polyimide networks constructed through a two-step polymerization approach, and their carbon dioxide adsorption performance. Polymer Chemistry, 2017, 8, 1298-1305.	3.9	36
12	Fabrication of microporous polyimide networks with tunable pore size and high CO2 selectivity. Chemical Engineering Journal, 2019, 368, 618-626.	12.7	36
13	Dielectric percolative composites with high dielectric constant and low dielectric loss based on sulfonated poly(aryl ether ketone) and a-MWCNTs coated with polyaniline. Journal of Materials Chemistry C, 2013, 1, 4035.	5.5	33
14	Synthesis of novel fluorinated hyperbranched polyimides with excellent optical properties. Journal of Polymer Science Part A, 2009, 47, 6269-6279.	2.3	31
15	Crosslinked polyetherimide nanocomposites with superior energy storage achieved via trace Al2O3 nanoparticles. Composites Science and Technology, 2022, 223, 109421.	7.8	29
16	Decreasing the dielectric constant and water uptake of co-polyimide films by introducing hydrophobic cross-linked networks. European Polymer Journal, 2018, 101, 105-112.	5.4	28
17	Lowâ€Cost Titaniumâ€“Bromine Flow Battery with Ultrahigh Cycle Stability for Gridâ€Scale Energy Storage. Advanced Materials, 2020, 32, e2005036.	21.0	28
18	Synthesis and characterization of novel poly(aryl ether ketone)s with metallophthalocyanine pendant unit from a new bisphenol containing dicyanophenyl side group. Polymer, 2006, 47, 1569-1574.	3.8	25

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19	Preparation and nonlinear optical characterization of a novel hyperbranched poly(aryl ether ketone) end-functionalized with nickel phthalocyanine. Dyes and Pigments, 2008, 79, 217-223.	3.7	25
20	From a flexible hyperbranched polyimide to a microporous polyimide network: Microporous architecture and carbon dioxide adsorption. Polymer, 2017, 115, 176-183.	3.8	25
21	Curly-Packed Structure Polymers for High-Temperature Capacitive Energy Storage. Chemistry of Materials, 2022, 34, 2333-2341.	6.7	25
22	Construction and carbon dioxide capture of microporous polymer networks with high surface area based on cross-linkable linear polyimides. Polymer Chemistry, 2019, 10, 4611-4620.	3.9	22
23	Crosslinked poly (aryl ether ketone)/boron nitride nanocomposites containing a stable chemical bonding structure as high temperature dielectrics. Composites Science and Technology, 2021, 213, 108949.	7.8	21
24	Synthesis and third-order optical nonlinearities of hyperbranched metal phthalocyanines. European Polymer Journal, 2014, 53, 58-64.	5.4	20
25	Synthesis, structure and third-order optical nonlinearities of hyperbranched metal phthalocyanines containing imide units. Dyes and Pigments, 2018, 154, 75-81.	3.7	20
26	Optimizing electric field distribution via tuning cross-linked point size for improving the dielectric properties of polymer nanocomposites. Nanoscale, 2020, 12, 12416-12425.	5.6	20
27	Novel axially substituted lanthanum phthalocyanines: Synthesis, photophysical and nonlinear optical properties. Dyes and Pigments, 2020, 179, 108407.	3.7	19
28	Chemical grafting of multi-walled carbon nanotubes on metal phthalocyanines for the preparation of nanocomposites with high dielectric constant and low dielectric loss for energy storage application. RSC Advances, 2015, 5, 51542-51548.	3.6	18
29	Enhanced Highâ€Temperature Dielectric Properties of Poly(aryl ether sulfone)/BaTiO₃ Nanocomposites via Constructing Chemical Crosslinked Networks. Macromolecular Rapid Communications, 2020, 41, e2000012.	3.9	17
30	Study on Novel Carbon-Nanotube/Sulfonated Poly(Aryl Ether Ketone) Composites with High Dielectric Constant at Low Percolation Threshold. Soft Materials, 2010, 9, 94-103.	1.7	16
31	Preparation of organicâ€“inorganic hybrid membranes with superior antifouling property by incorporating polymer-modified multiwall carbon nanotubes. RSC Advances, 2017, 7, 30564-30572.	3.6	16
32	Porphyrinâ€“poly(arylene ether sulfone) covalently functionalized multi-walled carbon nanotubes: synthesis and enhanced broadband nonlinear optical properties. RSC Advances, 2016, 6, 75530-75540.	3.6	15
33	The microstructure and dielectric properties of modified poly(aryl ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td (ketone)/	2.7	14
34	Preparation and Dielectric Properties of AGS@CuPc/PVDF Composites. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 743-750.	3.7	14
35	Synthesis and properties of hyperbranched polyimides derived from tetra-amine and long-chain aromatic dianhydrides. RSC Advances, 2015, 5, 107793-107803.	3.6	14
36	Influence of the existence of a phthalocyanine phase on the dielectric properties of ternary composites: Carbon nanotubes/phthalocyanine/poly(vinylidene fluoride). Composites Science and Technology, 2014, 104, 89-96.	7.8	13

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37	Combination of Polydopamine Coating and Plasma Pretreatment to Improve Bond Ability Between PEEK and Primary Teeth. Frontiers in Bioengineering and Biotechnology, 2020, 8, 630094.	4.1	13
38	Oxygenâ€Tolerant RAFT Polymerization Catalyzed by a Recyclable Biomimetic Mineralization Enhanced Biological Cascade System. Macromolecular Rapid Communications, 2022, 43, e2100559.	3.9	13
39	Synergy Effect of Porphyrin Units and Alkynyl Ï€ Bridges Tunes the Memory Behavior and Threshold Voltage of Hyperbranched Polyimides. Journal of Physical Chemistry C, 2020, 124, 2872-2878.	3.1	12
40	HOMO-controlled donor-acceptor contained polyimide for nonvolatile resistive memory device. Dyes and Pigments, 2021, 186, 109020.	3.7	12
41	Microstructure and Dielectric Properties of Poly(aryl ether ketone)s/Tetra-amino-phthalocyanine Zinc Composites. Polymer-Plastics Technology and Engineering, 2012, 51, 1372-1376.	1.9	11
42	Synthesis of crosslinkable fluorinated linearâ€hyperbranched copolyimides for optical waveguide devices. Journal of Applied Polymer Science, 2013, 127, 1834-1841.	2.6	11
43	Synthesis and properties of novel hyperbranched polyimides endâ€capped with metallophthalocyanines. Journal of Applied Polymer Science, 2013, 128, 3405-3410.	2.6	10
44	High-performance piezo-damping materials based on CNTs/BaTiO3/F-PAEK-b-PDMS under high temperature steam conditions. Applied Surface Science, 2018, 452, 429-436.	6.1	10
45	Enhanced optical limiting properties of composite films consisting of hyperbranched phthalocyanine and polyphenylsulfone with high linear transmittance. Synthetic Metals, 2020, 265, 116405.	3.9	10
46	High dielectric constant polyaniline/sulfonated poly(aryl ether ketone) composite membranes with good thermal and mechanical properties. Journal of Applied Polymer Science, 2013, 130, 1990-1995.	2.6	9
47	Research on performance and preparation of graphene/epoxy high dielectric permittivity polymer composites. High Performance Polymers, 2015, 27, 911-917.	1.8	8
48	Crosslinked microporous polyimides with polar substituent group for efficient CO2 capture. Microporous and Mesoporous Materials, 2020, 293, 109809.	4.4	8
49	Synthesis and Properties of Poly(Aryl Ether Ketone) Copolymers Containing 1,4â€Naphthalene Moieties. Journal of Macromolecular Science - Pure and Applied Chemistry, 2004, 41, 1095-1103.	2.2	7
50	Preparation and characterization of a novel hyperbranched poly(aryl ether ketone) terminated with cobalt phthalocyanine to be used for oxidative decomposition of 2,4,6-trichlorophenol. Macromolecular Research, 2010, 18, 331-335.	2.4	7
51	Ternary graphite nanosheet/copper phthalocyanine/sulfonated poly(aryl ether ketone) dielectric percolative composites: preparation, micromorphologies and dielectric properties. RSC Advances, 2014, 4, 28721-28727.	3.6	6
52	Covalent functionalization of graphene oxide with hyperbranched lanthanum phthalocyanines for improving optical limiting. Materials Letters, 2020, 258, 126781.	2.6	6
53	Enhanced electromechanical performance through chemistry graft copper phthalocyanine to siloxaneâ€modified polyurethane and interpenetrate with siloxane silicon rubber as composite actuator material. IET Nanodielectrics, 2021, 4, 38-44.	4.1	6
54	Microstructure and nonlinear optical characterization of a poly(aryl ether ketone) containing cobalt phthalocyanine. Materials Letters, 2008, 62, 3453-3455.	2.6	5

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55	In-situ preparation of high dielectric poly (metal phthalocyanine) imide/MWCNTs nanocomposites. Synthetic Metals, 2014, 188, 86-91.	3.9	5
56	Poly(ether ether ketone)/wrapped graphite nanosheets with poly(ether sulfone) composites: Preparation, mechanical properties, and tribological behavior. Journal of Applied Polymer Science, 2015, 132, .	2.6	5
57	New Type of Ecoâ€Friendly Polymeric Dye by Covalently Bonding Anthraquinone into Polyphenylsulfone. Macromolecular Materials and Engineering, 2019, 304, 1800692.	3.6	5
58	Polymer Grafted Aluminum Nanoparticles for Percolative Composite Films with Enhanced Compatibility. Polymers, 2019, 11, 638.	4.5	4
59	Synthesis and characterization of poly(aryl ether ketone) oligomers terminated with metallophthalocyanine to be used for oxidative decomposition of TCP. Journal of Applied Polymer Science, 2009, 112, 434-438.	2.6	3
60	ZnPc-MWCNT/sulfonated poly (ether ether ketone) composites for high-k and electrical energy storage applications. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 720-726.	2.9	3
61	Synthesis and characterization of novel cyanofunctionalized poly(aryl ether ketone)s. E-Polymers, 2009, 9, .	3.0	2
62	Preparation and dielectric properties of sulfonated poly(aryl ether ketone)/acidified graphite nanosheet composites. Journal of Applied Polymer Science, 2014, 131, .	2.6	2
63	Hyperbranched lutecium phthalocyanines grafted ethylenediamine@graphene oxide with enhanced nonlinear optical properties. Journal of Porphyrins and Phthalocyanines, 2020, 24, 1038-1046.	0.8	1
64	Nonlinear Optical Stability of Polyphenylsulfone (PPSU)â€Containing Anthraquinones with High Transmittance. Macromolecular Chemistry and Physics, 2021, 222, 2100112.	2.2	1
65	Polymer Nanocomposites: Bioinspired Polymer Nanocomposites Exhibit Giant Energy Density and High Efficiency at High Temperature (Small 28/2019). Small, 2019, 15, 1970148.	10.0	0