

Haibo Zhang

List of Publications by Year in descending order

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65
papers

2,130
citations

279701

23
h-index

233338

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docs citations

65
times ranked

2354
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Layer Thickness and Raster Angle on the Mechanical Properties of 3D-Printed PEEK and a Comparative Mechanical Study between PEEK and ABS. <i>Materials</i> , 2015, 8, 5834-5846.	1.3	610
2	Unique ion rectification in hypersaline environment: A high-performance and sustainable power generator system. <i>Science Advances</i> , 2018, 4, eaau1665.	4.7	195
3	Novel Wholly Aromatic Sulfonated Poly(arylene ether) Copolymers Containing Sulfonic Acid Groups on the Pendants for Proton Exchange Membrane Materials. <i>Macromolecules</i> , 2007, 40, 9435-9442.	2.2	138
4	A Charge-Density-Tunable Three/Two-Dimensional Polymer/Graphene Oxide Heterogeneous Nanoporous Membrane for Ion Transport. <i>ACS Nano</i> , 2017, 11, 10816-10824.	7.3	99
5	Sulfonated poly(arylene ether nitrile ketone) and its composite with phosphotungstic acid as materials for proton exchange membranes. <i>Journal of Membrane Science</i> , 2005, 264, 56-64.	4.1	70
6	Preparation and nonlinear optical studies of a novel thermal stable polymer containing azo chromophores in the side chain. <i>Dyes and Pigments</i> , 2008, 77, 223-228.	2.0	67
7	Low Water Swelling and High Proton Conducting Sulfonated Poly(arylene ether) with Pendant Sulfoalkyl Groups for Proton Exchange Membranes. <i>Macromolecular Rapid Communications</i> , 2007, 28, 2332-2338.	2.0	64
8	Novel soluble fluorinated poly(ether imide)s with different pendant groups: Synthesis, thermal, dielectric, and optical properties. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3281-3289.	2.5	63
9	Synthesis and characterization of sulfonated poly(arylene ether)s with sulfoalkyl pendant groups for proton exchange membranes. <i>Journal of Membrane Science</i> , 2008, 318, 271-279.	4.1	59
10	Poly(aryl ether ketone) containing flexible tetra-sulfonated side chains as proton exchange membranes. <i>Polymer Chemistry</i> , 2014, 5, 1477-1486.	1.9	58
11	Non-covalent modification of boron nitride nanoparticle-reinforced PEEK composite: Thermally conductive, interfacial, and mechanical properties. <i>Polymer</i> , 2020, 203, 122763.	1.8	57
12	Rational Design of Soluble Polyaramid for High Efficiency Energy Storage Dielectric Materials at Elevated Temperatures. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900820.	1.7	38
13	Synthesis of novel fluorinated hyperbranched polyimides with excellent optical properties. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6269-6279.	2.5	31
14	High Dimensional Stability and Alcohol Resistance Aromatic Poly(aryl ether ketone) Polyelectrolyte Membrane Synthesis and Characterization. <i>ACS Applied Energy Materials</i> , 2019, 2, 1646-1656.	2.5	31
15	Synthesis and characterization of photoactive poly(arylene ether sulfone)s containing azobenzene moieties in their main chains. <i>Reactive and Functional Polymers</i> , 2010, 70, 616-621.	2.0	29
16	Graft octa-sulfonated poly(arylene ether) for high performance proton exchange membrane. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12698-12708.	5.2	29
17	New comb-shaped ionomers based on hydrophobic poly(aryl ether ketone) backbone bearing hydrophilic high concentration sulfonated micro-cluster. <i>Polymer</i> , 2016, 96, 188-197.	1.8	27
18	Preparation of a novel poly(ether ether ketone) nonwoven filter and its application in harsh conditions for dust removal. <i>Separation and Purification Technology</i> , 2020, 253, 117555.	3.9	26

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19	Three-Dimensional Coating of SF/PLGA Coaxial Nanofiber Membranes on Surfaces of Calcium Phosphate Cement for Enhanced Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2970-2984.	2.6	25
20	High methanol resistant polyelectrolyte membrane based on semi-crystalline Poly(ether ketone) with densely sulfonated side chain for direct methanol fuel cell. <i>Journal of Power Sources</i> , 2021, 482, 228982.	4.0	25
21	Curly-Packed Structure Polymers for High-Temperature Capacitive Energy Storage. <i>Chemistry of Materials</i> , 2022, 34, 2333-2341.	3.2	25
22	Fabrication of Fluorescent Holographic Micropatterns Based on Azobenzene-Containing Host-Guest Complexes. <i>Langmuir</i> , 2009, 25, 10444-10446.	1.6	24
23	Synthesis, characterization, and photoresponsive behavior of a series of azobenzene-containing side-chain poly(ether sulfone)s with various lengths of flexible spacers. <i>Dyes and Pigments</i> , 2013, 99, 1117-1123.	2.0	23
24	Highly proton conducting proton-exchange membranes based on fluorinated poly(arylene ether) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	2.5	22
25	Polymeric Nano-Blue-Energy Generator Based on Anion-Selective Ionomers with 3D Pores and pH-Driving Gating. <i>Advanced Energy Materials</i> , 2020, 10, 2001552.	10.2	20
26	Preparation and Properties of Novel Cross-Linked Fluorinated Poly(aryl ether) with Low Dielectric Constant and High Thermal Stability. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000100.	2.0	20
27	A biodegradable core-sheath nanofibrous 3D hierarchy prepared by emulsion electrospinning for sustained drug release. <i>Journal of Materials Science</i> , 2020, 55, 16730-16743.	1.7	19
28	Micro-block versus random quaternized poly(arylene ether sulfones) with highly dense quaternization units for anion exchange membranes. <i>Polymer Chemistry</i> , 2020, 11, 2399-2407.	1.9	18
29	Pyrene-functionalized PAEKs prepared from C-H borylation and Suzuki coupling reactions for the dispersion of single-walled carbon nanotubes. <i>Composites Science and Technology</i> , 2017, 143, 82-88.	3.8	15
30	Synthesis and photoresponsive behaviors of novel poly(arylene ether)s with di-azobenzene pendants. <i>Reactive and Functional Polymers</i> , 2011, 71, 553-560.	2.0	11
31	Synthesis of crosslinkable fluorinated linear-hyperbranched copolyimides for optical waveguide devices. <i>Journal of Applied Polymer Science</i> , 2013, 127, 1834-1841.	1.3	11
32	Fabrication of fluorescent holographic micropatterns based on the rare earth complexes using azobenzene-containing poly(aryl ether)s as macromolecular ligands. <i>Journal of Polymer Science Part A</i> , 2015, 53, 936-943.	2.5	11
33	Cross-Linked Fluorinated Poly(Aryl Ether) (CFPAE) Films: Preparation Strategy, Performance Study, and Low Dielectric Applications. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900866.	1.7	11
34	Effect of molecular weight on mechanical properties and microstructure of 3D printed poly(ether ether ketone). <i>Polymer International</i> , 2021, 70, 1065-1072.	1.6	11
35	Synthesis and properties poly(arylene ether sulfone)s with pendant hyper-sulfonic acid. <i>RSC Advances</i> , 2015, 5, 38298-38307.	1.7	10
36	Integrative Clustering Reveals a Novel Subtype of Soft Tissue Sarcoma With Poor Prognosis. <i>Frontiers in Genetics</i> , 2020, 11, 69.	1.1	10

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37	Design and synthesis of poly(arylene ether sulfone)s with high glass transition temperature by introducing biphenylene groups. <i>Polymer International</i> , 2020, 69, 1267-1274.	1.6	9
38	Research on performance and preparation of graphene/epoxy high dielectric permittivity polymer composites. <i>High Performance Polymers</i> , 2015, 27, 911-917.	0.8	8
39	Self-cleaning and Oil/Water Separation of 3D Network Super-hydrophobic Bead-like Fluorinated Silica Pellets/Poly(aryl ether ketone) Composite Membrane Fabricated via a Facile One-step Electrospinning. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 1320-1325.	1.3	8
40	Investigations on the tribological properties of poly(arylene ether ketone) copolymer with 3-(trifluoromethyl) phenyl pendants and biphenyl units. <i>High Performance Polymers</i> , 2014, 26, 247-254.	0.8	7
41	A non-enzymatic glucose sensor based on electrospun 3-D copper oxide micro-nanofiber network films using carboxylic-functionalized poly(arylene ether ketone)s as templates. <i>RSC Advances</i> , 2019, 9, 6613-6619.	1.7	7
42	Knockdown of Kif20a inhibits growth of tumors in soft tissue sarcoma in vitro and in vivo. <i>Journal of Cancer</i> , 2020, 11, 5088-5098.	1.2	7
43	Influence of crosslink density on thermal, mechanical and dielectric properties of cross-linked fluorinated poly(aryl ether)s. <i>European Polymer Journal</i> , 2022, 172, 111244.	2.6	7
44	Novel photoactive poly(aryl ether)s containing bisazobenzene pendants for optical storage. <i>High Performance Polymers</i> , 2016, 28, 518-524.	0.8	6
45	Reinforcement of poly(ether ketone) by introducing fluorene groups and their effect on thermal and mechanical properties. <i>Polymer International</i> , 2021, 70, 282-287.	1.6	6
46	Poly(ether ether ketone)/wrapped graphite nanosheets with poly(ether sulfone) composites: Preparation, mechanical properties, and tribological behavior. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	5
47	Functionalization of multi-walled carbon nanotubes and their effect on the tribological properties of poly(ether ether ketone) composites. <i>Polymer International</i> , 2017, 66, 1897-1905.	1.6	5
48	Effects of biphenyl groups on the dry sliding behavior of poly (ether-ether-ketone-ketone) copolymers against stainless steel. <i>Materials and Design</i> , 2018, 158, 39-45.	3.3	5
49	New Type of Eco-Friendly Polymeric Dye by Covalently Bonding Anthraquinone into Polyphenylsulfone. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800692.	1.7	5
50	The performances of modified single-walled carbon nanotubes/poly(ether ether ketone) composites prepared by solution blending and melt blending. <i>High Performance Polymers</i> , 2020, 32, 276-285.	0.8	5
51	Synthesis and Characterization of Poly(ether ether ketone)s with (2,5-dihydroxy)phenyl Side Group. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2007, 44, 535-540.	1.2	4
52	Synthesis, characterization and photoresponsive behaviour of a series of azobenzene-containing poly(ether sulfone)s with high glass transition temperatures. <i>High Performance Polymers</i> , 2014, 26, 946-952.	0.8	4
53	Electrospun porous hybrid CuO/CdO nanofibers using carboxylic-functionalized poly(arylene ether) Tj ETQq1 1 0.784314 rgB4 /Overlo	0.8	4
54	Effectively improving the performance of MWNT/PEEK composite by choosing PAK-Cz as the solubilizer. <i>High Performance Polymers</i> , 2019, 31, 875-884.	0.8	4

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55	3D network super-hydrophobic hexafluorobisphenol A poly(aryl ether ketone) membrane prepared by one-step electrospraying. High Performance Polymers, 2020, 32, 1094-1101.	0.8	4
56	Construction of OH-functionalized MWCNT/solid waste composites with tubular/spherical heterostructures for enhanced electromagnetic wave absorption property. RSC Advances, 2022, 12, 16003-16013.	1.7	4
57	A Novel Graphene Nanoplatelets (GNPs) Dispersant: Polyaryletherketones with Pendent Pyrene Groups. Macromolecular Chemistry and Physics, 2019, 220, 1800553.	1.1	3
58	Enhanced interlayer strength in 3D printed poly (ether ether ketone) parts. Additive Manufacturing, 2022, 55, 102852.	1.7	3
59	Effect of barium-containing glass filler reinforcement on shear bond strength of poly(ether ether) Tj ETQq1 1 0.784314 rgBT (Overlock 2	0.8	2
60	Novel soluble carbazole-based poly(aryl ethers): Preparation, properties, and application for dispersing multiwalled carbon nanotubes. Journal of Applied Polymer Science, 2018, 135, 46250.	1.3	2
61	Preparation and properties of novel boric acid modified poly(aryl ether sulfone) membranes. Journal of Applied Polymer Science, 2014, 131, .	1.3	1
62	A low onset voltage WORM type polymer memory based on functional PES. Journal of Applied Polymer Science, 2015, 132, .	1.3	1
63	Resistive memory devices based on novel functionalized poly(aryl ether)s with pendant azobenzene. High Performance Polymers, 2019, 31, 273-281.	0.8	1
64	A series of novel high-temperature-resistant multiwall carbon nanotubes dispersants: Polyphenylene sulfones with pyrene groups in main chain. Journal of Applied Polymer Science, 2020, 137, 48379.	1.3	1
65	Blue Energy: Polymeric Nano-Blue Energy Generator Based on Anion-Selective Ionomers with 3D Pores and pH-Driving Gating (Adv. Energy Mater. 44/2020). Advanced Energy Materials, 2020, 10, 2070182.	10.2	0