

Suobo Zhang

List of Publications by Year in descending order

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67
papers

2,886
citations

185998

28
h-index

174990

52
g-index

68
all docs

68
docs citations

68
times ranked

2495
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Hydroxide-Conducting Polyelectrolyte Composed of an Poly(arylene ether sulfone) Containing Pendant Quaternary Guanidinium Groups for Alkaline Fuel Cell Applications. <i>Macromolecules</i> , 2010, 43, 3890-3896.	2.2	408
2	Synthesis of Soluble Poly(arylene ether sulfone) Ionomers with Pendant Quaternary Ammonium Groups for Anion Exchange Membranes. <i>Macromolecules</i> , 2009, 42, 8711-8717.	2.2	206
3	A novel guanidinium grafted poly(aryl ether sulfone) for high-performance hydroxide exchange membranes. <i>Chemical Communications</i> , 2010, 46, 7495.	2.2	201
4	Polyamide thin film composite membranes prepared from isomeric biphenyl tetraacyl chloride and m-phenylenediamine. <i>Journal of Membrane Science</i> , 2008, 315, 20-27.	4.1	114
5	High- β polymers of intrinsic microporosity: a new class of high temperature and low loss dielectrics for printed electronics. <i>Materials Horizons</i> , 2020, 7, 592-597.	6.4	87
6	Preparation and properties of anion exchange membranes with exceptional alkaline stable polymer backbone and cation groups. <i>Journal of Membrane Science</i> , 2020, 596, 117720.	4.1	84
7	Synthesis of novel guanidinium-based anion-exchange membranes with controlled microblock structures. <i>Journal of Membrane Science</i> , 2017, 537, 151-159.	4.1	80
8	Fixation of carbon dioxide into aliphatic polycarbonate, cobalt porphyrin catalyzed regio-specific poly(propylene carbonate) with high molecular weight. <i>Journal of Polymer Science Part A</i> , 2008, 46, 5959-5967.	2.5	79
9	Functional microporous polyimides based on sulfonated binaphthalene dianhydride for uptake and separation of carbon dioxide and vapors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10368.	5.2	79
10	Bioinspired superhydrophilic-hydrophobic integrated surface with conical pattern-shape for self-driven fog collection. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 274-281.	5.0	74
11	The effective synthesis of propylene carbonate catalyzed by silica-supported hexaalkylguanidinium chloride. <i>New Journal of Chemistry</i> , 2005, 29, 1199.	1.4	72
12	Pyrrolidinium-functionalized poly(arylene ether sulfone)s for anion exchange membranes: Using densely concentrated ionic groups and block design to improve membrane performance. <i>Journal of Membrane Science</i> , 2017, 535, 301-311.	4.1	71
13	Sulfonated Poly(arylene-co-naphthalimide)s Synthesized by Copolymerization of Primarily Sulfonated Monomer and Fluorinated Naphthalimide Dichlorides as Novel Polymers for Proton Exchange Membranes. <i>Macromolecules</i> , 2006, 39, 6425-6432.	2.2	65
14	Synthesis and properties of novel polyimides from sulfonated binaphthalene dianhydride for proton exchange membranes. <i>Journal of Polymer Science Part A</i> , 2008, 46, 2820-2832.	2.5	59
15	Bi-guanidinium-based crosslinked anion exchange membranes: Synthesis, characterization, and properties. <i>Journal of Membrane Science</i> , 2020, 601, 117923.	4.1	50
16	The effect of polymer backbones and cation functional groups on properties of anion exchange membranes for fuel cells. <i>Journal of Membrane Science</i> , 2020, 603, 118025.	4.1	49
17	Synthesis, properties, and gas permeation performance of cardo poly(arylene ether sulfone)s containing phthalimide side groups. <i>Journal of Applied Polymer Science</i> , 2007, 106, 2808-2816.	1.3	47
18	High-performance functionalized polymer of intrinsic microporosity (PIM) composite membranes with thin and stable interconnected layer for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2019, 591, 117347.	4.1	47

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19	Preparation of a highly permeable nanofiltration membrane using a novel acyl chloride monomer with -PO(Cl) ₂ group. <i>Desalination</i> , 2018, 431, 56-65.	4.0	46
20	Facile synthesis and the properties of novel cardo poly(arylene ether sulfone)s with pendent cycloaminium side chains as anion exchange membranes. <i>Polymer Chemistry</i> , 2017, 8, 4207-4219.	1.9	45
21	A Microporous Polymer with Suspended Cations for Anion Exchange Membrane Fuel Cells. <i>Macromolecules</i> , 2020, 53, 10998-11008.	2.2	43
22	Janus porous membrane with conical nanoneedle channel for rapid unidirectional water transport. <i>Chemical Communications</i> , 2018, 54, 10954-10957.	2.2	42
23	Mixed-matrix membranes incorporated with porous shape-persistent organic cages for gas separation. <i>Journal of Colloid and Interface Science</i> , 2017, 490, 29-36.	5.0	40
24	Facile Preparation of Highly Alkaline Stable Poly(arylene ⁺ imidazolium) Anion Exchange Membranes through an Ionized Monomer Strategy. <i>Macromolecules</i> , 2021, 54, 2202-2212.	2.2	38
25	Synthesis and characterization of a novel poly(arylene ether sulfone) containing pendent imidazole groups for high temperature proton exchange membranes. <i>Journal of Materials Chemistry</i> , 2012, 22, 22706.	6.7	36
26	Preparation of high water flux and antifouling RO membranes using a novel diacyl chloride monomer with a phosphonate group. <i>Journal of Membrane Science</i> , 2017, 536, 98-107.	4.1	32
27	Alkaline polymers of intrinsic microporosity: high-conduction and low-loss anhydrous proton exchange membranes for energy conversion. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3925-3930.	5.2	32
28	Design, synthesis and characterization of anion exchange membranes containing guanidinium salts with ultrahigh dimensional stability. <i>Journal of Membrane Science</i> , 2022, 643, 120008.	4.1	32
29	Phenolphthalein ⁻ based cardo poly(arylene ether sulfone): Preparation and application to separation membranes. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1-12.	1.3	30
30	Triphenylamine-containing microporous organic copolymers for hydrocarbons/water separation. <i>RSC Advances</i> , 2014, 4, 5568.	1.7	30
31	Controllable Janus porous membrane with liquids manipulation for diverse intelligent energy-free applications. <i>Journal of Membrane Science</i> , 2020, 601, 117954.	4.1	30
32	An integrated Janus porous membrane with controllable under-oil directional water transport and fluid gating property for oil/water emulsion separation. <i>Journal of Membrane Science</i> , 2021, 627, 119229.	4.1	28
33	Double-responsive polyampholyte as a nanoparticle stabilizer: application to reversible dispersion of gold nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 4379.	6.7	27
34	Preparation and characterization of side-chain poly(aryl ether ketone) anion exchange membranes by superacid-catalyzed reaction. <i>Polymer</i> , 2021, 222, 123639.	1.8	26
35	Synthesis, characterization and gas transport properties of novel poly(amine-imide)s containing tetraphenylmethane pendant groups. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9835-9843.	5.2	25
36	A liquid-based Janus porous membrane for convenient liquid ⁻ liquid extraction and immiscible oil/water separation. <i>Chemical Communications</i> , 2019, 55, 14486-14489.	2.2	23

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37	A chemical-induced crystallization strategy to fabricate poly(ether ether ketone) asymmetric membranes for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2021, 620, 118899.	4.1	23
38	Copolymerization of carbon dioxide and propylene oxide under inorganic oxide supported rare earth ternary catalyst. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3797-3804.	2.5	22
39	Preparation and characterization of an antibacterial ultrafiltration membrane with N-chloramine functional groups. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 391-400.	5.0	22
40	Highly stable polysulfone anion exchange membranes incorporated with bulky alkyl substituted guanidinium cations. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 1039-1047.	1.7	21
41	Preparation and characterization of positively charged composite nanofiltration membranes by coating poly(ether ether ketone) containing quaternary ammonium groups on polysulfone ultrafiltration membranes. <i>Journal of Applied Polymer Science</i> , 2013, 127, 1601-1608.	1.3	18
42	Controlled Superacid-Catalyzed Self-Cross-Linked Polymer of Intrinsic Microporosity for High-Performance CO ₂ Separation. <i>Macromolecules</i> , 2020, 53, 7988-7996.	2.2	18
43	Microwave-assisted synthesis of high-molecular-weight poly(ether imide)s by phase-transfer catalysis. <i>Journal of Applied Polymer Science</i> , 2004, 92, 2415-2419.	1.3	17
44	Chlorine-resistant sulfochlorinated and sulfonated polysulfone for reverse osmosis membranes by coating method. <i>Journal of Colloid and Interface Science</i> , 2019, 541, 434-443.	5.0	17
45	Patterned, anti-fouling membrane with controllable wettability for ultrafast oil/water separation and liquid-liquid extraction. <i>Chemical Communications</i> , 2020, 56, 12045-12048.	2.2	17
46	Synthesis and characterization of soluble poly(amide-imide)s bearing triethylamine sulfonate groups as gas dehumidification membrane material. <i>Journal of Applied Polymer Science</i> , 2007, 106, 3179-3184.	1.3	16
47	Preparation and characterization of novel positively charged copolymer composite membranes for nanofiltration. <i>RSC Advances</i> , 2014, 4, 22625.	1.7	16
48	Preparation and characterization of porous polyelectrolyte complex membranes for nanofiltration. <i>RSC Advances</i> , 2015, 5, 3567-3573.	1.7	16
49	A Simple Self-Cross-Linking Strategy for Double-Layered Proton Exchange Membranes with Improved Methanol Resistance and Good Electrochemical Properties for Passive Direct Methanol Fuel Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 941-947.	2.5	16
50	Nanofiber-based poly(aryl ether sulfone) containing guanidinium groups as novel anion-exchange membranes. <i>Journal of Polymer Research</i> , 2013, 20, 1.	1.2	15
51	High-efficiency Pd nanoparticles loaded porous organic polymers membrane catalytic reactors. <i>Chemical Communications</i> , 2021, 57, 3131-3134.	2.2	14
52	Nanofiber mats electrospun from composite proton exchange membranes prepared from poly(aryl ether sulfone) containing guanidinium groups. <i>Journal of Membrane Science</i> , 2014, 475, 101-108.	1.7	13
53	Surface modification of polyamide reverse osmosis membrane by phosphonic acid group with improved performance. <i>Journal of Applied Polymer Science</i> , 2019, 136, 46931.	1.3	13
54	Synthesis and properties of novel regioirregular polyimides from easily synthesized asymmetrical dichlorophthalimide monomers. <i>Journal of Polymer Science Part A</i> , 2007, 45, 3550-3561.	2.5	12

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55	A highly stable membrane for vanadium flow batteries (VFBs) enabled by the selective degradation of ionic side chains. <i>Journal of Materials Chemistry A</i> , 2022, 10, 762-771.	5.2	12
56	Antifouling ultrafiltration membrane fabricated from poly (arylene ether ketone) bearing hydrophilic hydroxyl groups. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	11
57	Synthesis of Fluorinated Poly(phenyl-alkane)s of Intrinsic Microporosity by Regioselective Aldehyde (A ₂) + Aromatics (B ₂) Friedel-Crafts Polycondensation. <i>Macromolecules</i> , 2021, 54, 6543-6551.	2.2	11
58	Nano-Interlayers Fabricated via Interfacial Azo-Coupling Polymerization: Effect of Pore Properties of Interlayers on Overall Performance of Thin-Film Composite for Nanofiltration. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59329-59340.	4.0	11
59	Thin film composite nanofiltration membranes fabricated from quaternized poly(ether ether ketone) with crosslinkable moiety using a benign solvent. <i>Journal of Colloid and Interface Science</i> , 2016, 463, 332-341.	5.0	10
60	Preparation and characterization of sulfonated poly(arylene-co-naphthalimide)s for use as proton exchange membranes. <i>Journal of Applied Polymer Science</i> , 2010, 118, 3187-3196.	1.3	9
61	Preparation of antifouling ultrafiltration membranes from copolymers of polysulfone and zwitterionic poly(arylene ether sulfone)s. <i>Chinese Journal of Chemical Engineering</i> , 2022, 49, 100-110.	1.7	8
62	Synthesis, structure and ethylene polymerization of group 4 complexes with phosphinoamide ligands. <i>Applied Organometallic Chemistry</i> , 2006, 20, 138-141.	1.7	7
63	High flexible ether-free semi-crystalline fuel cell membranes: Molecular-level design, assembly structure and properties. <i>Journal of Membrane Science</i> , 2021, 627, 119240.	4.1	6
64	A Novel Material for High-Performance O ₂ Battery Separator: Polyetherketone Nanofiber Membrane. <i>Small</i> , 2022, 18, e2201470.	5.2	6
65	Synthesis and gas permeability of novel fluorinated poly(phenylene-co-naphthalimide)s. <i>Journal of Applied Polymer Science</i> , 2007, 104, 2395-2402.	1.3	5
66	Correlation of the polymer hydrophilicity and membrane fabrication process on the properties of asymmetric membranes in a vapor-induced phase-inversion process. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	5
67	Synthesis and Properties of Novel Fluorinated Poly(phenylene-co-imide)s. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 307-315.	1.1	2