

Shenghai Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

2,029
citations

23
h-index

44
g-index

60
ext. papers

2,366
ext. citations

7.3
avg, IF

5.16
L-index

#	Paper	IF	Citations
57	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	13	0
56	Zwitterionic analog structured ultrafiltration membranes for high permeate flux and improved anti-fouling performance. <i>Journal of Membrane Science</i> , 2022 , 643, 120060	9.6	3
55	Fluorinated strategy of node structure of Zr-based MOF for construction of high-performance composite polymer electrolyte membranes. <i>Journal of Membrane Science</i> , 2022 , 645, 120193	9.6	2
54	Design, synthesis and characterization of anion exchange membranes containing guanidinium salts with ultrahigh dimensional stability. <i>Journal of Membrane Science</i> , 2022 , 643, 120008	9.6	4
53	Substrate-independent multifunctional nanostructured coating for diverse wastewater treatment. <i>Journal of Membrane Science</i> , 2022 , 654, 120562	9.6	0
52	Preparation and characterization of side-chain poly(aryl ether ketone) anion exchange membranes by superacid-catalyzed reaction. <i>Polymer</i> , 2021 , 222, 123639	3.9	8
51	A bio-inspired method to fabricate the substrate-independent Janus membranes with outstanding floatability for precise oil/water separation. <i>Bulletin of Materials Science</i> , 2021 , 44, 1	1.7	0
50	Synthesis of Fluorinated Poly(phenyl-alkane)s of Intrinsic Microporosity by Regioselective Aldehyde (A2) + Aromatics (B2) Friedel-Crafts Polycondensation. <i>Macromolecules</i> , 2021 , 54, 6543-6551	5.5	3
49	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	9.6	4
48	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	9.6	10
47	A high potential biphenol derivative cathode: toward a highly stable air-insensitive aqueous organic flow battery. <i>Science Bulletin</i> , 2021 , 66, 457-463	10.6	8
46	High-efficiency Pd nanoparticles loaded porous organic polymers membrane catalytic reactors. <i>Chemical Communications</i> , 2021 , 57, 3131-3134	5.8	8
45	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	13	8
44	Facile Preparation of Highly Alkaline Stable Poly(arylene-imidazolium) Anion Exchange Membranes through an Ionized Monomer Strategy. <i>Macromolecules</i> , 2021 , 54, 2202-2212	5.5	9
43	A Microporous Polymer with Suspended Cations for Anion Exchange Membrane Fuel Cells. <i>Macromolecules</i> , 2020 , 53, 10998-11008	5.5	11
42	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	9.6	27
41	Bi-guanidinium-based crosslinked anion exchange membranes: Synthesis, characterization, and properties. <i>Journal of Membrane Science</i> , 2020 , 601, 117923	9.6	25

40	Controllable Janus porous membrane with liquids manipulation for diverse intelligent energy-free applications. <i>Journal of Membrane Science</i> , 2020 , 601, 117954	9.6	18
39	Azobenzene-assisted exfoliation of 2D covalent organic frameworks into large-area, few-layer nanosheets for high flux and selective molecular separation membrane. <i>Journal of Membrane Science</i> , 2020 , 601, 117864	9.6	23
38	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	9.6	38
37	Controlled Superacid-Catalyzed Self-Cross-Linked Polymer of Intrinsic Microporosity for High-Performance CO ₂ Separation. <i>Macromolecules</i> , 2020 , 53, 7988-7996	5.5	7
36	Patterned, anti-fouling membrane with controllable wettability for ultrafast oil/water separation and liquid-liquid extraction. <i>Chemical Communications</i> , 2020 , 56, 12045-12048	5.8	11
35	An enhanced proton conductivity and reduced methanol permeability composite membrane prepared by sulfonated covalent organic nanosheets/Nafion. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 24985-24996	6.7	20
34	Highly stable polysulfone anion exchange membranes incorporated with bulky alkyl substituted guanidinium cations. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 1039-1047	4.6	12
33	Renewable antibacterial and antifouling polysulfone membranes incorporating a PEO-grafted amphiphilic polymer and N-chloramine functional groups. <i>Journal of Colloid and Interface Science</i> , 2019 , 554, 658-667	9.3	8
32	A liquid-based Janus porous membrane for convenient liquid-liquid extraction and immiscible oil/water separation. <i>Chemical Communications</i> , 2019 , 55, 14486-14489	5.8	20
31	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	6.1	11
30	Janus porous membrane with conical nanoneedle channel for rapid unidirectional water transport. <i>Chemical Communications</i> , 2018 , 54, 10954-10957	5.8	36
29	Bio-inspired fabrication of asymmetric wettability Janus porous membrane for secure F-oil infused F-free-membrane filtration. <i>Journal of Membrane Science</i> , 2018 , 566, 161-167	9.6	12
28	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	9.3	44
27	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	9.3	21
26	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,	2.9	5
25	Novel insights into the interplay between support and active layer in the thin film composite polyamide membranes. <i>Journal of Membrane Science</i> , 2017 , 537, 372-383	9.6	54
24	Synthesis of novel guanidinium-based anion-exchange membranes with controlled microblock structures. <i>Journal of Membrane Science</i> , 2017 , 537, 151-159	9.6	64
23	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	9.6	54

22	Integrated antimicrobial and antifouling ultrafiltration membrane by surface grafting PEO and N-chloramine functional groups. <i>Journal of Colloid and Interface Science</i> , 2017 , 500, 333-340	9.3	31
21	Novel quaternary ammonium microblock poly (p-phenylene-co-aryl ether ketone)s as anion exchange membranes for alkaline fuel cells. <i>Journal of Power Sources</i> , 2017 , 342, 605-615	8.9	59
20	Enhancing the performance of aromatic polyamide reverse osmosis membrane by surface modification via covalent attachment of polyvinyl alcohol (PVA). <i>Journal of Membrane Science</i> , 2016 , 501, 209-219	9.6	103
19	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, 332-41	9.3	10
18	Effect of poly(vinyl alcohol) coating process conditions on the properties and performance of polyamide reverse osmosis membranes. <i>Desalination</i> , 2016 , 379, 42-52	10.3	34
17	Hierarchical polymer coating for optimizing the antifouling and bactericidal efficacies. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016 , 27, 1397-412	3.5	8
16	Novel amphiphilic PEO-grafted cardo poly(aryl ether sulfone) copolymer: Synthesis, characterization and antifouling performance. <i>Polymer</i> , 2015 , 77, 48-54	3.9	14
15	Preparation and characterization of porous polyelectrolyte complex membranes for nanofiltration. <i>RSC Advances</i> , 2015 , 5, 3567-3573	3.7	11
14	Triphenylamine-containing microporous organic copolymers for hydrocarbons/water separation. <i>RSC Advances</i> , 2014 , 4, 5568	3.7	28
13	Preparation and characterization of novel positively charged copolymer composite membranes for nanofiltration. <i>RSC Advances</i> , 2014 , 4, 22625	3.7	14
12	Advanced Membrane Technology for Products Separation in Biorefinery 2012 , 407-433		
11	Assembly of an unbalanced charged polyampholyte onto Nafion [®] to produce high-performance composite membranes. <i>Chemical Communications</i> , 2012 , 48, 12201-3	5.8	16
10	Novel side-chain-type cardo poly(aryl ether sulfone) bearing pendant sulfoalkyl groups for proton exchange membranes. <i>Journal of Membrane Science</i> , 2011 , 367, 166-173	9.6	51
9	Poly(arylene ether sulfone)s ionomers with pendant quaternary ammonium groups for alkaline anion exchange membranes: Preparation and stability issues. <i>Journal of Membrane Science</i> , 2011 , 368, 246-253	9.6	74
8	A novel guanidinium grafted poly(aryl ether sulfone) for high-performance hydroxide exchange membranes. <i>Chemical Communications</i> , 2010 , 46, 7495-7	5.8	184
7	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	5.5	376
6	Double-responsive polyampholyte as a nanoparticle stabilizer: application to reversible dispersion of gold nanoparticles. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4379		26
5	Ionic-liquid-grafted rigid poly(p-phenylene) microspheres: efficient heterogeneous media for metal scavenging and catalysis. <i>Chemistry - A European Journal</i> , 2010 , 16, 1812-8	4.8	26

4	Novel proton exchange membranes based on water resistant sulfonated poly[bis(benzimidazobenzisoquinolinones)]. <i>Journal of Power Sources</i> , 2009 , 187, 67-73	8.9	11
3	Synthesis of Soluble Poly(arylene ether sulfone) Ionomers with Pendant Quaternary Ammonium Groups for Anion Exchange Membranes. <i>Macromolecules</i> , 2009 , 42, 8711-8717	5.5	195
2	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	56
1	Facile transformation of hydrophilic cellulose into superhydrophobic cellulose. <i>Chemical Communications</i> , 2007 , 4857-9	5.8	114