

Xiaocheng Lin

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,712
citations

159525

30
h-index

182361

51
g-index

51
all docs

51
docs citations

51
times ranked

3275
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Construction of ZnO@ZIF-8 Heterostructures with Size-Selective Photocatalysis Properties. ACS Applied Materials & Interfaces, 2016, 8, 9080-9087.	4.0	310
2	Alkali resistant and conductive guanidinium-based anion-exchange membranes for alkaline polymer electrolyte fuel cells. Journal of Power Sources, 2012, 217, 373-380.	4.0	148
3	Alkaline polymer electrolytes containing pendant dimethylimidazolium groups for alkaline membrane fuel cells. Journal of Materials Chemistry A, 2013, 1, 7262.	5.2	135
4	A novel route for preparing highly proton conductive membrane materials with metal-organic frameworks. Chemical Communications, 2013, 49, 143-145.	2.2	130
5	Direct Superassemblies of Freestanding Metal-Carbon Frameworks Featuring Reversible Crystalline-Phase Transformation for Electrochemical Sodium Storage. Journal of the American Chemical Society, 2016, 138, 16533-16541.	6.6	120
6	Novel alkaline anion exchange membranes containing pendant benzimidazolium groups for alkaline fuel cells. Journal of Membrane Science, 2013, 443, 193-200.	4.1	113
7	Rapid synthesis of ultrathin, defect-free ZIF-8 membranes via chemical vapour modification of a polymeric support. Chemical Communications, 2015, 51, 11474-11477.	2.2	103
8	Highly crosslinked, chlorine tolerant polymer network entwined graphene oxide membrane for water desalination. Journal of Materials Chemistry A, 2017, 5, 1533-1540.	5.2	96
9	Aqueous Phase Synthesis of ZIF-8 Membrane with Controllable Location on an Asymmetrically Porous Polymer Substrate. ACS Applied Materials & Interfaces, 2016, 8, 6236-6244.	4.0	95
10	Novel silica/poly(2,6-dimethyl-1,4-phenylene oxide) hybrid anion-exchange membranes for alkaline fuel cells: Effect of heat treatment. Journal of Membrane Science, 2009, 338, 51-60.	4.1	88
11	A low-pressure GO nanofiltration membrane crosslinked via ethylenediamine. Journal of Membrane Science, 2018, 548, 363-371.	4.1	88
12	The enhanced hydrogen separation performance of mixed matrix membranes by incorporation of two-dimensional ZIF-L into polyimide containing hydroxyl group. Journal of Membrane Science, 2018, 549, 260-266.	4.1	82
13	Loose nanofiltration-based electrodialysis for highly efficient textile wastewater treatment. Journal of Membrane Science, 2020, 608, 118182.	4.1	68
14	Preparation of porous diffusion dialysis membranes by functionalization of polysulfone for acid recovery. Journal of Membrane Science, 2017, 524, 557-564.	4.1	59
15	Cross-linked anion exchange membranes for alkaline fuel cells synthesized using a solvent free strategy. Journal of Power Sources, 2013, 233, 259-268.	4.0	57
16	Quaternized membranes bearing zwitterionic groups for vanadium redox flow battery through a green route. Journal of Membrane Science, 2015, 483, 60-69.	4.1	56
17	Synthesis of soluble copolymers bearing ionic graft for alkaline anion exchange membrane. RSC Advances, 2012, 2, 4250.	1.7	53
18	Bipolar membrane electrodialysis in aqua-ethanol medium: Production of salicylic acid. Journal of Membrane Science, 2015, 482, 76-82.	4.1	53

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19	Porous diffusion dialysis membranes for rapid acid recovery. <i>Journal of Membrane Science</i> , 2016, 502, 76-83.	4.1	52
20	Fabrication of asymmetrical diffusion dialysis membranes for rapid acid recovery with high purity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24000-24007.	5.2	49
21	Composite ultrafiltration membranes from polymer and its quaternary phosphonium-functionalized derivative with enhanced water flux. <i>Journal of Membrane Science</i> , 2015, 482, 67-75.	4.1	44
22	Design and synthesis of novel Brønsted-Lewis acidic ionic liquid and its application in biodiesel production from soapberry oil. <i>Energy Conversion and Management</i> , 2018, 166, 318-327.	4.4	44
23	Synthesis and Properties of Quaternary Phosphonium-based Anion Exchange Membrane for Fuel Cells. <i>Chinese Journal of Chemistry</i> , 2012, 30, 2241-2246.	2.6	40
24	A one-dimensional material as a nano-scaffold and a pseudo-seed for facilitated growth of ultrathin, mechanically reinforced molecular sieving membranes. <i>Chemical Communications</i> , 2016, 52, 13764-13767.	2.2	38
25	Integrated loose nanofiltration-electrodialysis process for sustainable resource extraction from high-salinity textile wastewater. <i>Journal of Hazardous Materials</i> , 2021, 419, 126505.	6.5	38
26	Self-solidification ionic liquids as heterogeneous catalysts for biodiesel production. <i>Green Chemistry</i> , 2019, 21, 3182-3189.	4.6	35
27	Immobilization of N-(3-aminopropyl)-imidazole through MOFs in proton conductive membrane for elevated temperature anhydrous applications. <i>Journal of Membrane Science</i> , 2014, 458, 86-95.	4.1	34
28	Durable superhydrophobic polyvinylidene fluoride membranes via facile spray-coating for effective membrane distillation. <i>Desalination</i> , 2022, 538, 115925.	4.0	34
29	Slow hydrophobic hydration induced polymer ultrafiltration membranes with high water flux. <i>Journal of Membrane Science</i> , 2014, 471, 27-34.	4.1	32
30	Novel triazolium-based ionic liquids as effective catalysts for transesterification of palm oil to biodiesel. <i>Journal of Molecular Liquids</i> , 2018, 249, 732-738.	2.3	32
31	Novel multi- SO_3H functionalized ionic liquids as highly efficient catalyst for synthesis of biodiesel. <i>Green Energy and Environment</i> , 2021, 6, 271-282.	4.7	31
32	High-performance porous anion exchange membranes for efficient acid recovery from acidic wastewater by diffusion dialysis. <i>Journal of Membrane Science</i> , 2021, 624, 119116.	4.1	31
33	A convenient, efficient and green route for preparing anion exchange membranes for potential application in alkaline fuel cells. <i>Journal of Membrane Science</i> , 2013, 425-426, 190-199.	4.1	27
34	Cation exchange membranes from hot-pressed electrospun sulfonated poly(phenylene oxide) nanofibers for alkali recovery. <i>Journal of Membrane Science</i> , 2014, 470, 479-485.	4.1	27
35	Synthesis and Characterization of Chitosan-Grafted BPPO Ultrafiltration Composite Membranes with Enhanced Antifouling and Antibacterial Properties. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 14974-14981.	1.8	27
36	Asymmetrically porous anion exchange membranes with an ultrathin selective layer for rapid acid recovery. <i>Journal of Membrane Science</i> , 2016, 510, 437-446.	4.1	27

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37	Self-Solidifying Quaternary Phosphonium-Containing Ionic Liquids as Efficient and Reusable Catalysts for Biodiesel Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6956-6963.	3.2	25
38	Hydrophilic Nanowire Modified Polymer Ultrafiltration Membranes with High Water Flux. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19161-19167.	4.0	22
39	Reusable and efficient heterogeneous catalysts for biodiesel production from free fatty acids and oils: Self-solidifying hybrid ionic liquids. <i>Energy</i> , 2020, 211, 118631.	4.5	22
40	Ionic Liquid@Amphiphilic Silica Nanoparticles: Novel Catalysts for Converting Waste Cooking Oil to Biodiesel. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18054-18061.	3.2	22
41	Piperazine-functionalized porous anion exchange membranes for efficient acid recovery by diffusion dialysis. <i>Journal of Membrane Science</i> , 2022, 654, 120560.	4.1	20
42	Bromomethylated poly(phenylene oxide) (BPPO)-assisted fabrication of UiO-66-NH ₂ /BPPO/polyethersulfone mixed matrix membrane for enhanced gas separation. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46759.	1.3	19
43	One-step fabrication of polymeric self-solidifying ionic liquids as the efficient catalysts for biodiesel production. <i>Journal of Cleaner Production</i> , 2021, 292, 125967.	4.6	17
44	Acidic chitosan membrane as an efficient catalyst for biodiesel production from oleic acid. <i>Renewable Energy</i> , 2019, 143, 1488-1499.	4.3	16
45	Free-standing hybrid anion-exchange membranes for application in fuel cells. <i>Journal of Applied Polymer Science</i> , 2012, 123, 3644-3651.	1.3	13
46	Polysulfone and Its Quaternary Phosphonium Derivative Composite Membranes with High Water Flux. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 3333-3340.	1.8	11
47	Porous Anion Exchange Membrane for Effective Acid Recovery by Diffusion Dialysis. <i>Processes</i> , 2021, 9, 1049.	1.3	9
48	Controllable fabrication of heterostructured Au/Bi ₂ O ₃ with plasmon effect for efficient photodegradation of rhodamine 6G. <i>Journal of Experimental Nanoscience</i> , 2017, 12, 33-44.	1.3	8
49	Porous polymer microsphere functionalized with benzimidazolium based ionic liquids as effective solid catalysts for esterification. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 2455-2466.	1.7	7
50	Polymeric ionic liquids (PILs) with high acid density: Tunable catalytic performance for biodiesel production. <i>Chinese Journal of Chemical Engineering</i> , 2021, 38, 266-275.	1.7	3