

Liang Zhu

List of Publications by Year in descending order

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35
papers

2,535
citations

201385

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344852

36
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all docs

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docs citations

36
times ranked

2105
citing authors

#	ARTICLE	IF	CITATIONS
1	Multication Side Chain Anion Exchange Membranes. <i>Macromolecules</i> , 2016, 49, 815-824.	2.2	303
2	Elastic Long-Chain Multication Cross-Linked Anion Exchange Membranes. <i>Macromolecules</i> , 2017, 50, 3323-3332.	2.2	159
3	Mechanically Tough and Chemically Stable Anion Exchange Membranes from Rigid-Flexible Semi-Interpenetrating Networks. <i>Chemistry of Materials</i> , 2015, 27, 6689-6698.	3.2	149
4	Cationic Side-Chain Attachment to Poly(Phenylene Oxide) Backbones for Chemically Stable and Conductive Anion Exchange Membranes. <i>Chemistry of Materials</i> , 2017, 29, 5321-5330.	3.2	133
5	Crosslinking of comb-shaped polymer anion exchange membranes via thiol-ene click chemistry. <i>Polymer Chemistry</i> , 2016, 7, 2464-2475.	1.9	131
6	High Performance Anion Exchange Membrane Fuel Cells Enabled by Fluoropoly(olefin) Membranes. <i>Advanced Functional Materials</i> , 2019, 29, 1902059.	7.8	128
7	Functionalization of Poly(2,6-dimethyl-1,4-phenylene oxide)s with Hindered Fluorene Side Chains for Anion Exchange Membranes. <i>Macromolecules</i> , 2016, 49, 3300-3309.	2.2	107
8	Mechanically Robust Anion Exchange Membranes via Long Hydrophilic Cross-Linkers. <i>Macromolecules</i> , 2017, 50, 2329-2337.	2.2	103
9	The balance of electric field and interfacial catalysis in promoting water dissociation in bipolar membranes. <i>Energy and Environmental Science</i> , 2018, 11, 2235-2245.	15.6	100
10	Poly(olefin)-Based Anion Exchange Membranes Prepared Using Ziegler-Natta Polymerization. <i>Macromolecules</i> , 2019, 52, 4030-4041.	2.2	92
11	Anion Exchange Fuel Cell Membranes Prepared from C-H Borylation and Suzuki Coupling Reactions. <i>Macromolecules</i> , 2014, 47, 1973-1980.	2.2	86
12	Exploring backbone-cation alkyl spacers for multi-cation side chain anion exchange membranes. <i>Journal of Power Sources</i> , 2018, 375, 433-441.	4.0	83
13	Click Cross-Linking-Improved Waterborne Polymers for Environment-Friendly Coatings and Adhesives. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17499-17510.	4.0	79
14	Polybenzimidazole/ionic liquid functionalized graphene oxide nanocomposite membrane for alkaline anion exchange membrane fuel cells. <i>Materials Letters</i> , 2016, 173, 219-222.	1.3	71
15	Influence of Sulfone Linkage on the Stability of Aromatic Quaternary Ammonium Polymers for Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, F615-F621.	1.3	69
16	Imidazolium-based organic-inorganic hybrid anion exchange membranes for fuel cell applications. <i>Journal of Membrane Science</i> , 2016, 508, 7-14.	4.1	69
17	Chemical Degradation of Polyacrylamide during Hydraulic Fracturing. <i>Environmental Science & Technology</i> , 2018, 52, 327-336.	4.6	68
18	Varying the microphase separation patterns of alkaline polymer electrolytes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4071-4081.	5.2	61

#	ARTICLE	IF	CITATIONS
19	Thermodynamics of Counterion Release Is Critical for Anion Exchange Membrane Conductivity. <i>Journal of the American Chemical Society</i> , 2018, 140, 7961-7969.	6.6	61
20	Bicarbonate and chloride anion transport in anion exchange membranes. <i>Journal of Membrane Science</i> , 2016, 514, 125-134.	4.1	60
21	Improved electrical power production of thermally regenerative batteries using a poly(phenylene) Tj ETQq1 1 0.784314 rgBT /Overloc	4.0	60
22	Ether-Free Polybenzimidazole Bearing Pendant Imidazolium Groups for Alkaline Anion Exchange Membrane Fuel Cells Application. <i>ACS Applied Energy Materials</i> , 2020, 3, 1089-1098.	2.5	57
23	Synthesis and application of binuclear $\hat{\pm}$ -diimine nickel/palladium catalysts with a conjugated backbone. <i>Dalton Transactions</i> , 2014, 43, 2900-2906.	1.6	53
24	Flexible Ionic Diodes for Low-Frequency Mechanical Energy Harvesting. <i>Advanced Energy Materials</i> , 2017, 7, 1601983.	10.2	51
25	Multiscale Tortuous Diffusion in Anion and Cation Exchange Membranes. <i>Macromolecules</i> , 2019, 52, 24-35.	2.2	34
26	Highly Proton Conducting Polyelectrolyte Membranes with Unusual Water Swelling Behavior Based on Triptycene-containing Poly(arylene ether sulfone) Multiblock Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1173-1186.	4.0	33
27	Anion exchange membranes by bromination of tetramethylbiphenol-based poly(sulfone)s. <i>Polymer Chemistry</i> , 2017, 8, 2442-2449.	1.9	30
28	Insight into the Mechanism of Thermal Stability of $\hat{\pm}$ -Diimine Nickel Complex in Catalyzing Ethylene Polymerization. <i>Organometallics</i> , 2017, 36, 1196-1203.	1.1	22
29	Utilizing thiol-ene chemistry for crosslinked nickel cation-based anion exchange membranes. <i>Journal of Polymer Science Part A</i> , 2018, 56, 328-339.	2.5	20
30	A thermal stable $\hat{\pm}$ -diimine palladium catalyst for copolymerization of ethylene with functionalized olefins. <i>Journal of Molecular Catalysis A</i> , 2014, 390, 76-82.	4.8	17
31	Side Chain Influence on the Mechanical Properties and Water Uptake of Confined Comb-Shaped Cationic Polymer Thin Films. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 2442-2451.	1.1	13
32	Molecular Engineering Mechanically Programmable Hydrogels with Orthogonal Functionalization. <i>Chemistry of Materials</i> , 2017, 29, 9981-9989.	3.2	12
33	Study on 2-thiophenecarbonyl chloride-quenched olefin polymerization with $\hat{\pm}$ -diimine nickel catalysts. <i>Iranian Polymer Journal (English Edition)</i> , 2018, 27, 153-159.	1.3	12
34	Influences of the chain structure of PE-PEG on the properties of PE/PE-PEG blend membranes prepared by TIPS. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46499.	1.3	3
35	Preparation and application of sulfonated poly(1-octene-co-styrene). <i>Journal of Applied Polymer Science</i> , 2011, 119, 677-684.	1.3	1