Liang Xian

List of Publications by Year in descending order

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LIANC XIAN

#	Article	IF	CITATIONS
1	Beneficial use of rotatable-spacer side-chains in alkaline anion exchange membranes for fuel cells. Energy and Environmental Science, 2018, 11, 3472-3479.	30.8	196
2	Sulfonated Microporous Polymer Membranes with Fast and Selective Ion Transport for Electrochemical Energy Conversion and Storage. Angewandte Chemie - International Edition, 2020, 59, 9564-9573.	13.8	145
3	Self-aggregating cationic-chains enable alkaline stable ion-conducting channels for anion-exchange membrane fuel cells. Journal of Materials Chemistry A, 2021, 9, 327-337.	10.3	116
4	A benzyltetramethylimidazolium-based membrane with exceptional alkaline stability in fuel cells: role of its structure in alkaline stability. Journal of Materials Chemistry A, 2018, 6, 527-534.	10.3	101
5	Anion exchange membranes with branched ionic clusters for fuel cells. Journal of Materials Chemistry A, 2018, 6, 5993-5998.	10.3	70
6	Highly conductive and stabilized side-chain-type anion exchange membranes: ideal alternatives for alkaline fuel cell applications. Journal of Materials Chemistry A, 2018, 6, 17101-17110.	10.3	58
7	Ionomer Cross-Linking Immobilization of Catalyst Nanoparticles for High Performance Alkaline Membrane Fuel Cells. Chemistry of Materials, 2019, 31, 7812-7820.	6.7	57
8	Cation–dipole interaction that creates ordered ion channels in an anion exchange membrane for fast <scp>OH</scp> ^{â^'} conduction. AICHE Journal, 2021, 67, e17133.	3.6	53
9	Shielded goethite catalyst that enables fast water dissociation in bipolar membranes. Nature Communications, 2021, 12, 9.	12.8	49
10	Improving fuel cell performance of an anion exchange membrane by terminal pending bis-cations on a flexible side chain. Journal of Membrane Science, 2020, 595, 117483.	8.2	48
11	Biomimetic Nanocones that Enable High Ion Permselectivity. Angewandte Chemie - International Edition, 2019, 58, 12646-12654.	13.8	47
12	Achieving high anion conductivity by densely grafting of ionic strings. Journal of Membrane Science, 2018, 559, 35-41.	8.2	38
13	Flexible Bis-piperidinium Side Chains Construct Highly Conductive and Robust Anion-Exchange Membranes. ACS Applied Energy Materials, 2021, 4, 9701-9711.	5.1	34
14	Thermally triggered polyrotaxane translational motion helps proton transfer. Nature Communications, 2018, 9, 2297.	12.8	24
15	3Dâ€Zipped Interface: In Situ Covalent‣ocking for High Performance of Anion Exchange Membrane Fuel Cells. Advanced Science, 2021, 8, e2102637.	11.2	21
16	Biomimetic Nanocones that Enable High Ion Permselectivity. Angewandte Chemie, 2019, 131, 12776-12784.	2.0	20
17	Sulfonated Microporous Polymer Membranes with Fast and Selective Ion Transport for Electrochemical Energy Conversion and Storage. Angewandte Chemie, 2020, 132, 9651-9660.	2.0	20
18	Towards the gemini cation anion exchange membranes by nucleophilic substitution reaction. Science China Materials, 2019, 62, 973-981.	6.3	18

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19	Hydrogen bonding assisted OHâ^' transport under low humidity for rapid start-up in AEMFCs. Journal of Membrane Science, 2022, 647, 120303.	8.2	15
20	Development of a High-Performance Proton Exchange Membrane: From Structural Optimization to Quantity Production. Industrial & Engineering Chemistry Research, 2022, 61, 4329-4338.	3.7	14
21	Exploring H-bonding interaction to enhance proton permeability of an acid-selective membrane. Journal of Membrane Science, 2021, 637, 119650.	8.2	13
22	Angioplasty mimetic stented ion transport channels construct durable high-performance membranes. Journal of Materials Chemistry A, 2019, 7, 10030-10040.	10.3	12
23	Fast Bulky Anion Conduction Enabled by Free Shuttling Phosphonium Cations. Research, 2021, 2021, 9762709.	5.7	11
24	High-performance bipolar membrane for electrochemical water electrolysis. Journal of Membrane Science, 2022, 656, 120660.	8.2	11