

Liang Ge

List of Publications by Year in descending order

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72
papers

4,287
citations

94381

37
h-index

110317

64
g-index

72
all docs

72
docs citations

72
times ranked

3705
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion exchange membranes: New developments and applications. <i>Journal of Membrane Science</i> , 2017, 522, 267-291.	4.1	650
2	Mixed matrix proton exchange membranes for fuel cells: State of the art and perspectives. <i>Progress in Polymer Science</i> , 2016, 57, 103-152.	11.8	262
3	Anion-immobilized polymer electrolyte achieved by cationic metal-organic framework filler for dendrite-free solid-state batteries. <i>Energy Storage Materials</i> , 2019, 18, 59-67.	9.5	237
4	Decorating nanoporous ZIF-67-derived NiCo ₂ O ₄ shells on a Co ₃ O ₄ nanowire array core for battery-type electrodes with enhanced energy storage performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10878-10884.	5.2	148
5	Sulfonated Microporous Polymer Membranes with Fast and Selective Ion Transport for Electrochemical Energy Conversion and Storage. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9564-9573.	7.2	145
6	Efficient Ion Sieving in Covalent Organic Framework Membranes with Sub-2 nm Nanometer Channels. <i>Advanced Materials</i> , 2021, 33, e2104404.	11.1	131
7	A novel route for preparing highly proton conductive membrane materials with metal-organic frameworks. <i>Chemical Communications</i> , 2013, 49, 143-145.	2.2	130
8	Electrodialysis with nanofiltration membrane (EDNF) for high-efficiency cations fractionation. <i>Journal of Membrane Science</i> , 2016, 498, 192-200.	4.1	100
9	A solvent-assisted ligand exchange approach enables metal-organic frameworks with diverse and complex architectures. <i>Nature Communications</i> , 2020, 11, 927.	5.8	93
10	Monovalent cation perm-selective membranes (MCPMs): New developments and perspectives. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 1606-1615.	1.7	88
11	Imidazolium functionalized anion exchange membrane blended with PVA for acid recovery via diffusion dialysis process. <i>Journal of Membrane Science</i> , 2016, 497, 209-215.	4.1	86
12	Oriented MOF-polymer Composite Nanofiber Membranes for High Proton Conductivity at High Temperature and Anhydrous Condition. <i>Scientific Reports</i> , 2014, 4, 4334.	1.6	81
13	An ordered ZIF-8-derived layered double hydroxide hollow nanoparticles-nanoflake array for high efficiency energy storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16953-16960.	5.2	81
14	Precisely tailoring ZIF-67 nanostructures from cobalt carbonate hydroxide nanowire arrays: toward high-performance battery-type electrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16688-16694.	5.2	74
15	Highly Ion-Permselective Porous Organic Cage Membranes with Hierarchical Channels. <i>Journal of the American Chemical Society</i> , 2022, 144, 10220-10229.	6.6	67
16	Hydrophobic Side Chains Impart Anion Exchange Membranes with High Monovalent/Divalent Anion Selectivity in Electrodialysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4429-4442.	3.2	65
17	Engineering Leaf-Like UiO-66-SO ₃ H Membranes for Selective Transport of Cations. <i>Nano-Micro Letters</i> , 2020, 12, 51.	14.4	64
18	Highly Cation Permselective Metal-Organic Framework Membranes with Leaf-Like Morphology. <i>ChemSusChem</i> , 2019, 12, 2593-2597.	3.6	61

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19	Facile preparation of 1,8-Diazabicyclo[5.4.0]undec-7-ene based high performance anion exchange membranes for diffusion dialysis applications. <i>Journal of Membrane Science</i> , 2015, 491, 45-52.	4.1	60
20	Preparation of proton selective membranes through constructing H ⁺ transfer channels by acid-base pairs. <i>Journal of Membrane Science</i> , 2015, 475, 273-280.	4.1	57
21	High performance anion exchange membrane with proton transport pathways for diffusion dialysis. <i>Separation and Purification Technology</i> , 2018, 193, 11-20.	3.9	57
22	Electro-nanofiltration membranes with positively charged polyamide layer for cations separation. <i>Journal of Membrane Science</i> , 2020, 594, 117453.	4.1	57
23	Ti-exchanged UiO-66-NH ₂ containing polyamide membranes with remarkable cation permselectivity. <i>Journal of Membrane Science</i> , 2020, 615, 118608.	4.1	57
24	Preparation of monovalent cation selective membranes through annealing treatment. <i>Journal of Membrane Science</i> , 2014, 459, 217-222.	4.1	55
25	A general route to the synthesis of layer-by-layer structured metal organic framework/graphene oxide hybrid films for high-performance supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16865-16872.	5.2	54
26	Asymmetric porous monovalent cation perm-selective membranes with an ultrathin polyamide selective layer for cations separation. <i>Journal of Membrane Science</i> , 2018, 557, 49-57.	4.1	53
27	Cation exchange membrane integrated with cationic and anionic layers for selective ion separation via electrodialysis. <i>Desalination</i> , 2019, 458, 25-33.	4.0	53
28	Cationic covalent organic framework membranes for efficient dye/salt separation. <i>Journal of Membrane Science</i> , 2022, 644, 120118.	4.1	50
29	Improved acid recovery performance by novel Poly(DMAEM-co- ¹³ C-MPS) anion exchange membrane via diffusion dialysis. <i>Journal of Membrane Science</i> , 2017, 525, 163-174.	4.1	49
30	Monovalent cations permselective membranes with zwitterionic side chains. <i>Journal of Membrane Science</i> , 2018, 563, 320-325.	4.1	48
31	Self-organized nanostructured anion exchange membranes for acid recovery. <i>Chemical Engineering Journal</i> , 2020, 382, 122838.	6.6	48
32	Proton exchange membrane from tetrazole-based poly (phthalazinone ether sulfone ketone) for high-temperature fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 12337-12346.	3.8	47
33	Nanofibrous composite membranes (NFCMs) for mono/divalent cations separation. <i>Journal of Membrane Science</i> , 2017, 528, 243-250.	4.1	47
34	Biomimetic Nanocones that Enable High Ion Permselectivity. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12646-12654.	7.2	47
35	Facile synthesis of pyridinium functionalized anion exchange membranes for diffusion dialysis application. <i>Separation and Purification Technology</i> , 2016, 167, 108-116.	3.9	44
36	Anion exchange membranes from hot-pressed electrospun QPPO-SiO ₂ hybrid nanofibers for acid recovery. <i>Journal of Membrane Science</i> , 2015, 480, 115-121.	4.1	42

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37	Click mediated high-performance anion exchange membranes with improved water uptake. Journal of Materials Chemistry A, 2017, 5, 1022-1027.	5.2	39
38	Zwitterion structure membrane provides high monovalent/divalent cation electro dialysis selectivity: Investigating the effect of functional groups and operating parameters. Journal of Membrane Science, 2019, 588, 117211.	4.1	39
39	Cross-linked anion exchange membranes with hydrophobic side-chains for anion separation. Journal of Membrane Science, 2019, 581, 150-157.	4.1	39
40	Advanced charged porous membranes with ultrahigh selectivity and permeability for acid recovery. Journal of Membrane Science, 2017, 536, 11-18.	4.1	36
41	Cationic metal-organic framework porous membranes with high hydroxide conductivity and alkaline resistance for fuel cells. Journal of Materials Chemistry A, 2016, 4, 14545-14549.	5.2	34
42	Sandwich structure SPPO/BPPO proton exchange membranes for fuel cells: Morphology-electrochemical properties relationship. Journal of Membrane Science, 2015, 475, 30-38.	4.1	32
43	In-situ crosslinked SPPO/PVA composite membranes for alkali recovery via diffusion dialysis. Journal of Membrane Science, 2019, 590, 117267.	4.1	32
44	Layer-by-Layer Assembled $g-C_3N_4$ Nanosheets/Cellulose Nanofibers Oriented Membrane Filler Leading to Enhanced Thermal Conductivity. Advanced Materials Interfaces, 2019, 6, 1801406.	1.9	31
45	Spray-deposited thin-film composite MOFs membranes for dyes removal. Journal of Membrane Science, 2021, 635, 119475.	4.1	30
46	Novel Poly(ester amide) Membranes with Tunable Crosslinked Structures for Nanofiltration. ACS Applied Materials & Interfaces, 2022, 14, 10782-10792.	4.0	30
47	Cation exchange membranes from hot-pressed electrospun sulfonated poly(phenylene oxide) nanofibers for alkali recovery. Journal of Membrane Science, 2014, 470, 479-485.	4.1	27
48	Novel synthetic route to prepare doubly quaternized anion exchange membranes for diffusion dialysis application. Separation and Purification Technology, 2017, 189, 204-212.	3.9	27
49	Zwitterion membranes for selective cation separation via electro dialysis. Separation and Purification Technology, 2021, 254, 117619.	3.9	27
50	Preparation of porous poly(vinylidene fluoride) membranes with acrylate particles for electro dialysis application. Separation and Purification Technology, 2015, 150, 102-111.	3.9	26
51	SPPO-based cation exchange membranes with a positively charged layer for cation fractionation. Desalination, 2019, 472, 114145.	4.0	26
52	Bipolar membrane electro dialysis for cleaner production of <i>N</i> -methylated glycine derivative amino acids. AIChE Journal, 2020, 66, e17023.	1.8	26
53	Ion-ædistillation-æfor isolating lithium from lake brine. AIChE Journal, 2022, 68, .	1.8	26
54	Beneficial Use of a Coordination Complex As the Junction Catalyst in a Bipolar Membrane. ACS Applied Energy Materials, 2020, 3, 5765-5773.	2.5	25

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55	Novel silica-functionalized aminoisophthalic acid-based membranes for base recovery via diffusion dialysis. <i>Journal of Membrane Science</i> , 2016, 507, 90-98.	4.1	21
56	Biomimetic Nanocones that Enable High Ion Permselectivity. <i>Angewandte Chemie</i> , 2019, 131, 12776-12784.	1.6	20
57	In-situ crosslinked AEMs with self-assembled nanostructure for acid recovery. <i>Separation and Purification Technology</i> , 2020, 247, 116927.	3.9	20
58	Sulfonated Microporous Polymer Membranes with Fast and Selective Ion Transport for Electrochemical Energy Conversion and Storage. <i>Angewandte Chemie</i> , 2020, 132, 9651-9660.	1.6	20
59	PVA-Based Mixed Matrix Membranes Comprising ZSM-5 for Cations Separation. <i>Membranes</i> , 2020, 10, 114.	1.4	19
60	Preparation and characterization of click-driven N-vinylcarbazole-based anion exchange membranes with improved water uptake for fuel cells. <i>RSC Advances</i> , 2017, 7, 29794-29805.	1.7	18
61	One-pot preparation of anion exchange membranes from bromomethylated poly(2,6-dimethyl-1,4-phenylene oxide) for electrodialysis. <i>Chemical Engineering Science</i> , 2015, 135, 526-531.	1.9	16
62	Development of PVA/MIDA based hybrid cation exchange membranes for alkali recovery via Diffusion Dialysis. <i>Separation and Purification Technology</i> , 2016, 164, 63-69.	3.9	16
63	Preparation of click-driven cross-linked anion exchange membranes with low water uptake. <i>Particuology</i> , 2020, 48, 65-73.	2.0	13
64	Exploring H-bonding interaction to enhance proton permeability of an acid-selective membrane. <i>Journal of Membrane Science</i> , 2021, 637, 119650.	4.1	13
65	Enhancing acid recovery efficiency by implementing oligomer ionic bridge in the membrane matrix. <i>Journal of Membrane Science</i> , 2016, 518, 263-272.	4.1	12
66	Adsorption of methyl orange from aqueous solution on anion exchange membranes: Adsorption kinetics and equilibrium. <i>Membrane Water Treatment</i> , 2016, 7, 23-38.	0.5	12
67	Fabrication of cation exchange membrane from polyvinyl alcohol using lignin sulfonic acid: Applications in diffusion dialysis process for alkali recovery. <i>Separation Science and Technology</i> , 2017, 52, 1106-1113.	1.3	10
68	Ion Exchange Membrane “ABC” A Key Material for Upgrading Process Industries. <i>Chinese Journal of Chemistry</i> , 2021, 39, 825-837.	2.6	8
69	Soluble polymeric metal-organic frameworks toward crystalline membranes for efficient cation separation. <i>Journal of Membrane Science</i> , 2021, 639, 119757.	4.1	8
70	In-situ interfacial polymerization endows surface enrichment of -COOH groups on anion exchange membranes for efficient $\text{Cl}^{-}/\text{SO}_4^{2-}$ separation. <i>Journal of Polymer Science</i> , 2022, 60, 3022-3034.	2.0	8
71	A novel mixed matrix membrane framework for ultrafast cation sieving. <i>Chemical Communications</i> , 2020, 56, 6543-6546.	2.2	7
72	Polyamide-Based Electronanofiltration Membranes for Efficient Anion Separation. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 9869-9878.	1.8	6