

Li-Fen Liu

List of Publications by Year in descending order

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40
papers

1,833
citations

304743
22
h-index

289244
40
g-index

40
all docs

40
docs citations

40
times ranked

1696
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing functional layer of cation exchange membrane by three-dimensional cross-linking quaternization for enhancing monovalent selectivity. Chinese Chemical Letters, 2022, 33, 2757-2762.	9.0	8
2	Hierarchical metal-phenolic-polyplex assembly toward superwetting membrane for high-flux and antifouling oil-water separation. Chinese Chemical Letters, 2022, 33, 3859-3864.	9.0	16
3	Structure adjustment for enhancing the water permeability and separation selectivity of the thin film composite nanofiltration membrane based on a dendritic hyperbranched polymer. Journal of Membrane Science, 2021, 618, 118455.	8.2	37
4	Surface modification of reverse osmosis membrane with tannic acid for improving chlorine resistance. Desalination, 2021, 498, 114639.	8.2	34
5	Engineering superwetting membranes through polyphenol-polycation-metal complexation for high-efficient oil/water separation: From polyphenol to tailored nanostructures. Journal of Membrane Science, 2021, 630, 119310.	8.2	50
6	Preparation of monovalent cation perm-selective membranes by controlling surface hydration energy barrier. Separation and Purification Technology, 2021, 270, 118768.	7.9	25
7	A rigid-flexible interpenetrating polyamide reverse osmosis membrane with improved antifouling property fabricated via two step modifications. Journal of Membrane Science, 2021, 637, 119625.	8.2	17
8	Polyphenol-engineered superwetting membranes with wrinkled microspherical organizations for high-efficient oil/water separation. Journal of Membrane Science, 2021, 640, 119813.	8.2	20
9	Surface modification of polyamide reverse osmosis membranes with small-molecule zwitterions for enhanced fouling resistance: a molecular simulation study. Physical Chemistry Chemical Physics, 2021, 23, 6623-6631.	2.8	7
10	Green Fabrication of Tertrabutylammonium Styrene Sulfonate Cation-Exchange Membranes via a Solvent-Free Photopolymerization Strategy. Industrial & Engineering Chemistry Research, 2021, 60, 17055-17064.	3.7	1
11	Diatom-Inspired TiO ₂ -PANi-Decorated Bilayer Photothermal Foam for Solar-Driven Clean Water Generation. ACS Applied Materials & Interfaces, 2021, 13, 58124-58133.	8.0	34
12	Combining tannic acid-modified support and a green co-solvent for high performance reverse osmosis membranes. Journal of Membrane Science, 2020, 595, 117474.	8.2	41
13	High flux reverse osmosis membranes fabricated with hyperbranched polymers via novel twice-crosslinked interfacial polymerization method. Journal of Membrane Science, 2020, 595, 117480.	8.2	27
14	Solvent activation before heat-treatment for improving reverse osmosis membrane performance. Journal of Membrane Science, 2020, 595, 117565.	8.2	35
15	Applications of tannic acid in membrane technologies: A review. Advances in Colloid and Interface Science, 2020, 284, 102267.	14.7	181
16	In situ metal-polyphenol interfacial assembly tailored superwetting PES/SPES/MPN membranes for oil-in-water emulsion separation. Journal of Membrane Science, 2020, 615, 118566.	8.2	81
17	<i>In silico</i> study of structure and water dynamics in CNT/polyamide nanocomposite reverse osmosis membranes. Physical Chemistry Chemical Physics, 2020, 22, 22324-22331.	2.8	6
18	Structure regulation for synergistically improving the permeation properties of the reverse osmosis membrane based on an amphiphilic hyperbranched polymer. Journal of Membrane Science, 2020, 608, 118143.	8.2	12

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19	Polyphenol-metal manipulated nanohybridization of CNT membranes with FeOOH nanorods for high-flux, antifouling and self-cleaning oil/water separation. <i>Journal of Membrane Science</i> , 2020, 600, 117857.	8.2	80
20	Superwetting Oil/Water Separation Membrane Constructed from In Situ Assembled Metal-Phenolic Networks and Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10000-10008.	8.0	113
21	Molecular dynamics simulation studies of the structure and antifouling performance of a gradient polyamide membrane. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19995-20002.	2.8	16
22	Amino-modified hollow mesoporous silica nanospheres-incorporated reverse osmosis membrane with high performance. <i>Journal of Membrane Science</i> , 2019, 581, 168-177.	8.2	57
23	Thin film nanocomposite reverse osmosis membrane incorporated with UiO-66 nanoparticles for enhanced boron removal. <i>Journal of Membrane Science</i> , 2019, 580, 101-109.	8.2	123
24	Modification of polyamide TFC nanofiltration membrane for improving separation and antifouling properties. <i>RSC Advances</i> , 2018, 8, 15102-15110.	3.6	42
25	Understanding the temperature effect on transport dynamics and structures in polyamide reverse osmosis system via molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29996-30005.	2.8	20
26	Modification of poly(amide-urethane-imide) (PAUI) thin film composite reverse osmosis membrane with nano-silver particles. <i>RSC Advances</i> , 2018, 8, 37817-37827.	3.6	4
27	Metal-polyphenol coordination networks: Towards engineering of antifouling hybrid membranes via in situ assembly. <i>Journal of Membrane Science</i> , 2018, 563, 435-446.	8.2	42
28	Modification of Polyamide-Urethane (PAUt) Thin Film Composite Membrane for Improving the Reverse Osmosis Performance. <i>Polymers</i> , 2018, 10, 346.	4.5	4
29	Modification of PSf/SPSf Blended Porous Support for Improving the Reverse Osmosis Performance of Aromatic Polyamide Thin Film Composite Membranes. <i>Polymers</i> , 2018, 10, 686.	4.5	23
30	Functionalized Graphene Oxide Modified Polyethersulfone Membranes for Low-Pressure Anionic Dye/Salt Fractionation. <i>Polymers</i> , 2018, 10, 795.	4.5	15
31	Dopamine-induced biomimetic mineralization for in situ developing antifouling hybrid membrane. <i>Journal of Membrane Science</i> , 2018, 560, 47-57.	8.2	61
32	Recent developments in nanofiltration membranes based on nanomaterials. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 1639-1652.	3.5	129
33	A novel semi-aromatic polyamide TFC reverse osmosis membrane fabricated from a dendritic molecule of trimesoylamidoamine through a two-step amine-immersion mode. <i>RSC Advances</i> , 2017, 7, 39127-39137.	3.6	16
34	Thin film composite membranes combining carbon nanotube intermediate layer and microfiltration support for high nanofiltration performances. <i>Journal of Membrane Science</i> , 2016, 515, 238-244.	8.2	239
35	Synthesis of quaternary ammonium hydroxide from its halide salt by bipolar membrane electrodialysis (BMED): effect of molecular structure of ammonium compounds on the process performance. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 841-850.	3.2	17
36	Fabrication and characterization of a novel poly(amide-urethane-imide) TFC reverse osmosis membrane with chlorine-tolerant property. <i>Journal of Membrane Science</i> , 2014, 469, 397-409.	8.2	66

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37	Synthesis, characterization, and nonlinear optical responses of nickel(II) complexes with phenanthroline-based ligands. <i>Journal of Coordination Chemistry</i> , 2013, 66, 2388-2397.	2.2	10
38	Study on a novel antifouling polyamide-urea reverse osmosis composite membrane (ICIC-MPD)III. Analysis of membrane electrical properties. <i>Journal of Membrane Science</i> , 2008, 310, 119-128.	8.2	20
39	Study on a novel polyamide-urea reverse osmosis composite membrane (ICIC-MPD). <i>Journal of Membrane Science</i> , 2006, 283, 133-146.	8.2	46
40	Study on a novel polyamide-urea reverse osmosis composite membrane (ICIC-MPD)I. Preparation and characterization of ICIC-MPD membrane. <i>Journal of Membrane Science</i> , 2006, 281, 88-94.	8.2	58