

Fu Liu

List of Publications by Year in descending order

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83
papers

6,196
citations

109321

35
h-index

69250

77
g-index

83
all docs

83
docs citations

83
times ranked

6225
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in the production and modification of PVDF membranes. Journal of Membrane Science, 2011, 375, 1-27.	8.2	1,786
2	An Intelligent Superwetting PVDF Membrane Showing Switchable Transport Performance for Oil/Water Separation. Advanced Materials, 2014, 26, 2943-2948.	21.0	614
3	Robust preparation of superhydrophobic polymer/carbon nanotube hybrid membranes for highly effective removal of oils and separation of water-in-oil emulsions. Journal of Materials Chemistry A, 2014, 2, 15268.	10.3	194
4	Full Biomass-Derived Solar Stills for Robust and Stable Evaporation To Collect Clean Water from Various Water-Bearing Media. ACS Applied Materials & Interfaces, 2019, 11, 10672-10679.	8.0	176
5	Preparation and evaluation of heparin-immobilized poly (lactic acid) (PLA) membrane for hemodialysis. Journal of Membrane Science, 2014, 452, 390-399.	8.2	153
6	Amide-based covalent organic frameworks materials for efficient and recyclable removal of heavy metal lead (II). Chemical Engineering Journal, 2019, 370, 822-830.	12.7	152
7	Robust superhydrophilic polylactide (PLA) membranes with a TiO ₂ nano-particle inlaid surface for oil/water separation. Journal of Materials Chemistry A, 2017, 5, 6538-6545.	10.3	141
8	Ultra-robust carbon fibers for multi-media purification <i>via</i> solar-evaporation. Journal of Materials Chemistry A, 2019, 7, 586-593.	10.3	136
9	Facile fabrication of nanofiber- and micro/nanosphere-coordinated PVDF membrane with ultrahigh permeability of viscous water-in-oil emulsions. Journal of Materials Chemistry A, 2018, 6, 7014-7020.	10.3	132
10	Catalytic PVDF membrane for continuous reduction and separation of p-nitrophenol and methylene blue in emulsified oil solution. Chemical Engineering Journal, 2018, 334, 579-586.	12.7	127
11	Surface zwitterionization of hemocompatible poly(lactic acid) membranes for hemodiafiltration. Journal of Membrane Science, 2015, 475, 469-479.	8.2	107
12	A tight nanofiltration membrane with multi-charged nanofilms for high rejection to concentrated salts. Journal of Membrane Science, 2017, 537, 407-415.	8.2	104
13	Highly Efficient Solar Steam Generation from Activated Carbon Fiber Cloth with Matching Water Supply and Durable Fouling Resistance. ACS Applied Energy Materials, 2019, 2, 4354-4361.	5.1	101
14	Prussian blue/PVDF catalytic membrane with exceptional and stable Fenton oxidation performance for organic pollutants removal. Applied Catalysis B: Environmental, 2020, 273, 119047.	20.2	95
15	The effect of membrane surface charges on demulsification and fouling resistance during emulsion separation. Journal of Membrane Science, 2018, 563, 126-133.	8.2	82
16	Omniphobic Nanofibrous Membrane with Pine-Needle-Like Hierarchical Nanostructures: Toward Enhanced Performance for Membrane Distillation. ACS Applied Materials & Interfaces, 2019, 11, 47963-47971.	8.0	80
17	Superhydrophilic carbonaceous-silver nanofibrous membrane for complex oil/water separation and removal of heavy metal ions, organic dyes and bacteria. Journal of Membrane Science, 2020, 614, 118491.	8.2	79
18	Hydrophilic poly(vinylidene fluoride) (PVDF) membrane by in situ polymerisation of 2-hydroxyethyl methacrylate (HEMA) and micro-phase separation. Journal of Materials Chemistry, 2012, 22, 9131.	6.7	77

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19	Poly(Lactic Acid) Hemodialysis Membranes with Poly(Lactic Acid)- <i>block</i> -Poly(2-Hydroxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlo Materials & Interfaces, 2015, 7, 17748-17755.	8.0	75
20	Controllable transition from finger-like pores to inter-connected pores of PLLA membranes. Journal of Membrane Science, 2015, 478, 96-104.	8.2	73
21	Electrosprayed polyamide nanofiltration membrane with intercalated structure for controllable structure manipulation and enhanced separation performance. Journal of Membrane Science, 2020, 602, 117971.	8.2	68
22	One-step tailoring surface roughness and surface chemistry to prepare superhydrophobic polyvinylidene fluoride (PVDF) membranes for enhanced membrane distillation performances. Journal of Colloid and Interface Science, 2019, 553, 99-107.	9.4	66
23	Janus Polyvinylidene Fluoride Membrane with Extremely Opposite Wetting Surfaces via One Single-Step Unidirectional Segregation Strategy. ACS Applied Materials & Interfaces, 2018, 10, 24947-24954.	8.0	64
24	A novel natural hirudin facilitated anti-clotting polylactide membrane via hydrogen bonding interaction. Journal of Membrane Science, 2017, 523, 505-514.	8.2	58
25	Sustaining fouling resistant membranes: Membrane fabrication, characterization and mechanism understanding of demulsification and fouling-resistance. Journal of Membrane Science, 2019, 581, 105-113.	8.2	57
26	A pH-responsive PVDF membrane with superwetting properties for the separation of oil and water. RSC Advances, 2015, 5, 23530-23539.	3.6	51
27	Fast polydopamine coating on reverse osmosis membrane: Process investigation and membrane performance study. Journal of Colloid and Interface Science, 2019, 535, 239-244.	9.4	48
28	In situ generated micro-bubbles enhanced membrane antifouling for separation of oil-in-water emulsion. Journal of Membrane Science, 2021, 621, 119005.	8.2	48
29	Janus Membrane with Unparalleled Forward Osmosis Performance. Environmental Science and Technology Letters, 2019, 6, 79-85.	8.7	47
30	Enhancing solar steam generation through manipulating the heterostructure of PVDF membranes with reduced reflection and conduction. Journal of Materials Chemistry A, 2019, 7, 17505-17515.	10.3	46
31	Exceptional interfacial solar evaporation via heteromorphic PTFE/CNT hollow fiber arrays. Journal of Materials Chemistry A, 2021, 9, 390-399.	10.3	45
32	Superhydrophilic and mechanical robust PVDF nanofibrous membrane through facile interfacial Span 80 welding for excellent oil/water separation. Applied Surface Science, 2019, 485, 179-187.	6.1	44
33	Meso-/macro-porous microspheres confining Au nanoparticles based on PDLA/PLLA stereo-complex membrane for continuous flowing catalysis and separation. Chemical Engineering Journal, 2018, 344, 299-310.	12.7	42
34	Covalent Bonding of Heparin on the Crystallized Poly(lactic acid) (PLA) Membrane to Improve Hemocompatibility via Surface Cross-Linking and Glycidyl Ether Reaction. ACS Biomaterials Science and Engineering, 2016, 2, 2207-2216.	5.2	40
35	Improvement in LiFePO ₄ Li battery performance via poly(perfluoroalkylsulfonyl)imide (PFSI) based ionene composite binder. Journal of Materials Chemistry A, 2013, 1, 15016.	10.3	37
36	A new strategy to simultaneously improve the permeability, heat-deformation resistance and antifouling properties of polylactide membrane via bio-based β ² -cyclodextrin and surface crosslinking. Journal of Membrane Science, 2016, 513, 166-176.	8.2	36

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37	Beyond Superwetting Surfaces: Dual-Scale Hyperporous Membrane with Rational Wettability for "Nonfouling" Emulsion Separation via Coalescence Demulsification. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4731-4739.	8.0	36
38	Robust poly(lactic acid) membranes improved by polysulfone-g-poly(lactic acid) copolymers for hemodialysis. <i>RSC Advances</i> , 2015, 5, 78306-78314.	3.6	34
39	Novel Janus membrane with unprecedented osmosis transport performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 632-638.	10.3	34
40	Flexible PVDF membranes with exceptional robust superwetting surface for continuous separation of oil/water emulsions. <i>Scientific Reports</i> , 2017, 7, 14099.	3.3	33
41	A silane-based interfacial crosslinking strategy to design PVDF membranes with versatile surface functions. <i>Journal of Membrane Science</i> , 2016, 520, 769-778.	8.2	32
42	Designing pH-Responsive Biodegradable Polymer Coatings for Controlled Drug Release via Vapor-Based Route. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38449-38458.	8.0	32
43	Enhanced catalytic degradation of 4-NP using a superhydrophilic PVDF membrane decorated with Au nanoparticles. <i>RSC Advances</i> , 2016, 6, 62302-62309.	3.6	31
44	Poly(vinyl alcohol)/polydopamine hybrid nanofiltration membrane fabricated through aqueous electro spraying with excellent antifouling and chlorine resistance. <i>Journal of Membrane Science</i> , 2021, 632, 119385.	8.2	30
45	Persistently hydrophilic microporous membranes based on in situ cross-linking. <i>Journal of Membrane Science</i> , 2015, 474, 224-232.	8.2	28
46	Preparation and evaluation of a self-anticoagulating dialyzer via an interface crosslinking approach. <i>Journal of Membrane Science</i> , 2018, 563, 115-125.	8.2	28
47	ZIF-67 derived nanofibrous catalytic membranes for ultrafast removal of antibiotics under flow-through filtration via non-radical dominated pathway. <i>Journal of Membrane Science</i> , 2021, 639, 119782.	8.2	28
48	PDLA/PLLA ultrafiltration membrane with excellent permeability, rejection and fouling resistance via stereocomplexation. <i>Journal of Membrane Science</i> , 2017, 533, 103-111.	8.2	27
49	Carbonaceous microsphere/nanofiber composite superhydrophilic membrane with enhanced anti-adhesion property towards oil and anionic surfactant: Membrane fabrication and applications. <i>Separation and Purification Technology</i> , 2020, 235, 116189.	7.9	26
50	Electrosprayed polydopamine membrane: Surface morphology, chemical stability and separation performance study. <i>Separation and Purification Technology</i> , 2020, 244, 116857.	7.9	26
51	"Living" electro spray " A controllable polydopamine nano-coating strategy with zero liquid discharge for separation. <i>Journal of Membrane Science</i> , 2019, 586, 170-176.	8.2	25
52	Investigation of the heat resistance, wettability and hemocompatibility of a polylactide membrane via surface crosslinking induced crystallization. <i>RSC Advances</i> , 2016, 6, 20492-20499.	3.6	24
53	Solar-driven organic solvent purification enabled by the robust cubic Prussian blue. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8960-8966.	10.3	24
54	A novel poly (4-methyl-1-pentene)/polypropylene (PMP/PP) thin film composite (TFC) artificial lung membrane for enhanced gas transport and excellent hemo-compatibility. <i>Journal of Membrane Science</i> , 2022, 649, 120359.	8.2	23

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55	Fabrication of anti-fouling, anti-bacterial and non-clotting PVDF membranes through one step outside-in interface segregation strategy. <i>Journal of Colloid and Interface Science</i> , 2018, 517, 93-103.	9.4	22
56	Gravity-driven catalytic nanofibrous membrane with microsphere and nanofiber coordinated structure for ultrafast continuous reduction of 4-nitrophenol. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 108-115.	9.4	22
57	Tunable adhesion of superoleophilic/superhydrophobic poly (lactic acid) membrane for controlled-release of oil soluble drugs. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 49-58.	9.4	21
58	Enhanced hemocompatibility of flat and hollow fiber membranes via a heparin free surface crosslinking strategy. <i>Reactive and Functional Polymers</i> , 2018, 124, 104-114.	4.1	21
59	Surface PEGylation on PLA membranes via micro-swelling and crosslinking for improved biocompatibility/hemocompatibility. <i>RSC Advances</i> , 2015, 5, 107949-107956.	3.6	20
60	Synergetic treatment of dye contaminated wastewater using microparticles functionalized with carbon nanotubes/titanium dioxide nanocomposites. <i>RSC Advances</i> , 2020, 10, 9210-9225.	3.6	20
61	Construction of hierarchical Prussian blue microcrystal with high sunlight absorption for efficient photo-thermal degradation of organic pollutants. <i>Separation and Purification Technology</i> , 2021, 269, 118724.	7.9	20
62	Interfacial polymerized polyamide nanofiltration membrane by demulsification of hexane-in-water droplets through hydrophobic PTFE membrane: Membrane performance and formation mechanism. <i>Separation and Purification Technology</i> , 2021, 275, 119227.	7.9	20
63	Construction of electro-neutral surface on dialysis membrane for improved toxin clearance and anti-coagulation/inflammation through saltwater fish inspired trimethylamine N-oxide (TMAO). <i>Journal of Membrane Science</i> , 2022, 641, 119900.	8.2	20
64	Anticoagulant dialyzer with enhanced Ca ²⁺ chelation and hydrophilicity for heparin free hemodialysis. <i>Journal of Membrane Science</i> , 2020, 604, 118082.	8.2	19
65	Efficient separation of O/W and W/O micro-emulsion by thermally responsive superantwetting PVDF membrane. <i>Reactive and Functional Polymers</i> , 2015, 97, 86-95.	4.1	18
66	Heparin free coating on PLA membranes for enhanced hemocompatibility via iCVD. <i>Applied Surface Science</i> , 2018, 433, 869-878.	6.1	18
67	APTES assisted surface heparinization of polylactide porous membranes for improved hemocompatibility. <i>RSC Advances</i> , 2016, 6, 42684-42692.	3.6	17
68	Confined Channels Induced Coalescence Demulsification and Slippery Interfaces Constructed Fouling Resist-Release for Long-Lasting Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30224-30234.	8.0	17
69	Polytetrafluoroethylene (PTFE) hollow fibers modified by hydrophilic crosslinking network (HCN) for robust resistance to fouling and harsh chemical cleaning. <i>Journal of Membrane Science</i> , 2021, 630, 119301.	8.2	16
70	Chinese Knot Inspired Ag Nanowire Membrane for Robust Separation in Water Remediation. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800183.	3.7	14
71	Biomimetic urchin-like surface based on poly (lactic acid) membrane for robust anti-wetting and anti-bacteria properties. <i>Materials Letters</i> , 2019, 237, 240-244.	2.6	14
72	Effect of solvents on morphology and polymorphism of polyvinylidene fluoride membrane via supercritical CO ₂ induced phase separation. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	12

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73	Reversible filtration redox of methylene blue in dimethylsulfoxide by manganese oxide loaded carbonaceous nanofibrous membrane through Fenton-like oxidation. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 436-445.	9.4	10
74	The stabilization of ultrafiltration membrane blended with randomly structured amphiphilic copolymer: Micropollutants adsorption properties in filtration processes. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 234-243.	9.4	10
75	Solar-catalytic membranes constructed by graphene oxide and prussian blue@covalent triazine framework "active mega cubes" for ultrafast water transport. <i>Journal of Membrane Science</i> , 2022, 644, 120156.	8.2	9
76	Bimetallic Coordination in Two-Dimensional Metal-Organic Framework Nanosheets Enables Highly Efficient Removal of Heavy Metal Lead (II). <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	2.7	8
77	Bone/muscle-inspired polymer porous matrix toughened carbon nanofibrous catalytic membranes for robust emerging contaminants removal. <i>Chemical Engineering Journal</i> , 2022, 442, 136069.	12.7	6
78	Investigation of abnormal thermoresponsive PVDF membranes on casting solution, membrane morphology and filtration performance. <i>RSC Advances</i> , 2016, 6, 27485-27493.	3.6	5
79	Targeted perfusion adsorption for hyperphosphatemia using mixed matrix microspheres (MMMs) encapsulated NH ₂ -MIL-101(Fe). <i>Journal of Materials Chemistry B</i> , 2021, 9, 4555-4566.	5.8	5
80	Catalytic conversion controlled interfacial polymerization for polyamide membranes. <i>Reactive and Functional Polymers</i> , 2018, 131, 84-88.	4.1	4
81	Morphology evolution of poly(vinylidene fluoride) membranes during supercritical CO ₂ assisted phase inversion. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014, 32, 1628-1638.	3.8	3
82	Air nanobubbles (ANBs) incorporated sandwich-structured carbon nanotube membranes (CNM) for highly permeable and stable forward osmosis. , 2022, 2, 100026.		3
83	Silver Nanowire Membrane: Chinese Knot Inspired Ag Nanowire Membrane for Robust Separation in Water Remediation (<i>Adv. Mater. Interfaces</i> 11/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870053.	3.7	0