

# Jianqiang Meng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2532177/publications.pdf>

Version: 2024-02-01

97  
papers

3,395  
citations

117453

34  
h-index

161609

54  
g-index

98  
all docs

98  
docs citations

98  
times ranked

4031  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rhodium Nanoparticles Stabilized by Ionic Copolymers in Ionic Liquids: Long Lifetime Nanocluster Catalysts for Benzene Hydrogenation. <i>Journal of the American Chemical Society</i> , 2005, 127, 9694-9695.	6.6	285
2	A Scalable Method toward Superhydrophilic and Underwater Superoleophobic PVDF Membranes for Effective Oil/Water Emulsion Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14896-14904.	4.0	225
3	Surface coating on the polyamide TFC RO membrane for chlorine resistance and antifouling performance improvement. <i>Journal of Membrane Science</i> , 2014, 451, 205-215.	4.1	154
4	Surface modification of PES ultrafiltration membrane by polydopamine coating and poly(ethylene terephthalate) crosslinking. <i>Journal of Membrane Science</i> , 2014, 451, 144-150.	4.0	144
5	Synthesis of hydrophilic polysulfone membranes having antifouling and boron adsorption properties via blending with an amphiphilic graft copolymer. <i>Journal of Membrane Science</i> , 2013, 444, 50-59.	4.1	92
6	A novel salt-responsive TFC RO membrane having superior antifouling and easy-cleaning properties. <i>Journal of Membrane Science</i> , 2014, 461, 123-129.	4.1	89
7	Surface modification of PVDF membrane via AGET ATRP directly from the membrane surface. <i>Applied Surface Science</i> , 2011, 257, 6282-6290.	3.1	87
8	Antibacterial cellulose membrane via one-step covalent immobilization of ammonium/amine groups. <i>Desalination</i> , 2015, 359, 156-166.	4.0	83
9	Polysulfone membranes clicked with poly(ethylene glycol) of high density and uniformity for oil/water emulsion purification: Effects of tethered hydrogel microstructure. <i>Journal of Membrane Science</i> , 2014, 470, 112-124.	4.1	68
10	Experimental study on NO <sub>x</sub> reduction from staging combustion of high volatile pulverized coals. Part 1. Air staging. <i>Fuel Processing Technology</i> , 2014, 126, 266-275.	3.7	64
11	Poly(p-phenylene terephthamide) embedded in a polysulfone as the substrate for improving compaction resistance and adhesion of a thin film composite polyamide membrane. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13610-13624.	5.2	63
12	A simple but efficient zwitterionization method towards cellulose membrane with superior antifouling property and biocompatibility. <i>Journal of Membrane Science</i> , 2015, 492, 547-558.	4.1	61
13	Hypochlorite treatment on thin film composite RO membrane to improve boron removal performance. <i>Desalination</i> , 2011, 274, 136-143.	4.0	60
14	Hyperbranched grafting enabling simultaneous enhancement of the boric acid uptake and the adsorption rate of a complexing membrane. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11656-11665.	5.2	58
15	Preparation and characterization of antibacterial polyamine-based cyclophosphazene nanofiltration membranes. <i>Journal of Membrane Science</i> , 2019, 592, 117371.	4.1	57
16	Surface glycosylation of polysulfone membrane towards a novel complexing membrane for boron removal. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 197-207.	5.0	55
17	Water and salt transport properties of zwitterionic polymers film. <i>Journal of Membrane Science</i> , 2015, 491, 73-81.	4.1	53
18	Hierarchical porous metallized poly-melamine-formaldehyde (PMF) as a low-cost and high-efficiency catalyst for cyclic carbonate synthesis from CO <sub>2</sub> and epoxides. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8441-8448.	5.2	53

#	ARTICLE	IF	CITATIONS
19	Synthesis of catalytic polypropylene membranes enabling visible-light-driven photocatalytic degradation of dyes in water. <i>Journal of Membrane Science</i> , 2014, 453, 221-229.	4.1	52
20	One-step bimodel grafting via a multicomponent reaction toward antifouling and antibacterial TFC RO membranes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15945-15960.	5.2	50
21	Non-leaching antibacterial cellulose triacetate reverse osmosis membrane via covalent immobilization of quaternary ammonium cations. <i>Carbohydrate Polymers</i> , 2018, 181, 1102-1111.	5.1	49
22	Polyol-grafted polysulfone membranes for boron removal: Effects of the ligand structure. <i>Journal of Membrane Science</i> , 2015, 476, 205-215.	4.1	45
23	Atom transfer radical polymerization of 6-O-methacryloyl-1,2;3,4-di-O-isopropylidene-D-galactopyranose in solution. <i>Journal of Polymer Science Part A</i> , 2005, 43, 752-762.	2.5	44
24	A novel controlled grafting chemistry fully regulated by light for membrane surface hydrophilization and functionalization. <i>Journal of Membrane Science</i> , 2014, 455, 405-414.	4.1	42
25	Fast and facile fabrication of antifouling and hemocompatible PVDF membrane tethered with amino-acid modified PEG film. <i>Applied Surface Science</i> , 2018, 428, 41-53.	3.1	42
26	Formation of a thin and continuous MOF membrane with 2-D MOF nanosheets as seeds <i>via</i> layer-by-layer growth. <i>Chemical Communications</i> , 2019, 55, 10146-10149.	2.2	42
27	Surface modified glass fiber membranes with superior chemical and thermal resistance for O/W separation. <i>Chemical Engineering Journal</i> , 2017, 309, 30-40.	6.6	40
28	Facile surface glycosylation of PVDF microporous membrane via direct surface-initiated AGET ATRP and improvement of antifouling property and biocompatibility. <i>Applied Surface Science</i> , 2012, 258, 2856-2863.	3.1	38
29	Green Facile Scalable Synthesis of Titania/Carbon Nanocomposites: New Use of Old Dental Resins. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18461-18468.	4.0	38
30	Direct Non-oxidative Methane Conversion in a Millisecond Catalytic Wall Reactor. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7083-7086.	7.2	38
31	High-performance acid-stable polysulfonamide thin-film composite membrane prepared via spinning-assist multilayer interfacial polymerization. <i>Journal of Materials Science</i> , 2019, 54, 886-900.	1.7	38
32	Experimental study on NO <sub>x</sub> reduction from staging combustion of high volatile pulverized coals. Part 2. Fuel staging. <i>Fuel Processing Technology</i> , 2015, 138, 445-454.	3.7	37
33	Facile Scalable Synthesis of TiO <sub>2</sub> /Carbon Nanohybrids with Ultrasmall TiO <sub>2</sub> Nanoparticles Homogeneously Embedded in Carbon Matrix. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24247-24255.	4.0	36
34	Silicon Oxycarbide/Carbon Nanohybrids with Tiny Silicon Oxycarbide Particles Embedded in Free Carbon Matrix Based on Photoactive Dental Methacrylates. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 13982-13992.	4.0	36
35	Fouling resistance and cleaning efficiency of stimuli-responsive reverse osmosis (RO) membranes. <i>Polymer</i> , 2016, 103, 457-467.	1.8	35
36	Hyperbranched-polyol-tethered poly (amic acid) electrospun nanofiber membrane with ultrahigh adsorption capacity for boron removal. <i>Applied Surface Science</i> , 2017, 402, 21-30.	3.1	35

#	ARTICLE	IF	CITATIONS
37	Synthesis of antifouling nanoporous membranes having tunable nanopores via click chemistry. <i>Journal of Membrane Science</i> , 2012, 401-402, 109-117.	4.1	34
38	Tuning the microstructure of crosslinked Poly(ionic liquid) membranes and gels via a multicomponent reaction for improved CO <sub>2</sub> capture performance. <i>Journal of Membrane Science</i> , 2020, 593, 117405.	4.1	34
39	Experimental and theoretical research on N-methyl-2-pyrrolidone concentration by vacuum membrane distillation using polypropylene hollow fiber membrane. <i>Journal of Membrane Science</i> , 2014, 452, 157-164.	4.1	33
40	Titanium Silicalite-1 Nanosheet-Supported Platinum for Non-oxidative Ethane Dehydrogenation. <i>ACS Catalysis</i> , 2021, 11, 9970-9985.	5.5	30
41	Direct electrochemistry of hemoglobin entrapped in cyanoethyl cellulose film and its electrocatalysis to nitric oxide. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3049-3054.	5.3	29
42	A MOF membrane with ultrathin ZIF-8 layer bonded on ZIF-8 in-situ embedded PSf substrate. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 104, 273-283.	2.7	29
43	Surface grafting of zwitterionic and PEGylated cross-linked polymers toward PVDF membranes with ultralow protein adsorption. <i>Polymer</i> , 2019, 167, 1-12.	1.8	28
44	Hierarchical porous membrane via electrospinning PIM-1 for micropollutants removal. <i>Applied Surface Science</i> , 2018, 443, 441-451.	3.1	27
45	Tuning the micro-phase separation of the PES-g-PEG comb-like copolymer membrane for efficient CO <sub>2</sub> separation. <i>Separation and Purification Technology</i> , 2021, 265, 118465.	3.9	27
46	Tethering of hyperbranched polyols using PEI as a building block to synthesize antifouling PVDF membranes. <i>Applied Surface Science</i> , 2017, 419, 546-556.	3.1	25
47	Synthesis, characterization and excellent antibacterial property of cellulose acetate reverse osmosis membrane via a two-step reaction. <i>Carbohydrate Polymers</i> , 2019, 216, 312-321.	5.1	25
48	Hierarchical porous polyimide nanocomposite membrane for flow-through CO <sub>2</sub> cycloaddition at mild conditions. <i>Chemical Engineering Journal</i> , 2020, 383, 123166.	6.6	25
49	A novel mixed matrix membrane allowing for flow-through removal of boron. <i>Chemical Engineering Journal</i> , 2017, 308, 557-567.	6.6	24
50	Pyrene End-Labeled Diblock Glycopolymers: Synthesis and Aggregation. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 513-520.	1.1	23
51	Facile fabrication of polyethyleneimine interlayer-assisted graphene oxide incorporated reverse osmosis membranes for water desalination. <i>Desalination</i> , 2022, 526, 115502.	4.0	23
52	Microporous Binder for the Silicon-Based Lithium-Ion Battery Anode with Exceptional Rate Capability and Improved Cyclic Performance. <i>Langmuir</i> , 2020, 36, 2003-2011.	1.6	22
53	Modulating pore size and surface properties of cellulose microporous membrane via thio-ene chemistry. <i>Desalination</i> , 2013, 328, 58-66.	4.0	21
54	Surface modification of AO-PAN@OHeC nanofiber membranes with amino acid for antifouling and hemocompatible properties. <i>Applied Surface Science</i> , 2019, 475, 934-941.	3.1	21

#	ARTICLE	IF	CITATIONS
55	Engineering of Ag-nanoparticle-encapsulated intermediate layer by tannic acid-inspired chemistry towards thin film nanocomposite membranes of superior antibiofouling property. <i>Journal of Membrane Science</i> , 2022, 641, 119922.	4.1	21
56	Hierarchical Porous and Zinc-Ion-Crosslinked PIM-1 Nanocomposite as a CO <sub>2</sub> Cycloaddition Catalyst with High Efficiency. <i>ChemSusChem</i> , 2019, 12, 2231-2239.	3.6	20
57	A microporous polymer TFC membrane with 2-D MOF nanosheets gutter layer for efficient H <sub>2</sub> separation. <i>Separation and Purification Technology</i> , 2021, 261, 118283.	3.9	20
58	An all ATRP route to PMMA- <i>b</i> -PEO- <i>b</i> -PS and PMAA- <i>b</i> -PEO- <i>b</i> -PS miktoarm ABC star terpolymer. <i>Polymer</i> , 2009, 50, 125-132.	1.8	19
59	Electrospun poly(styrene-co-maleic anhydride) nanofibrous membrane: A versatile platform for mixed mode membrane adsorbers. <i>Applied Surface Science</i> , 2019, 484, 62-71.	3.1	19
60	Environmentally friendly approach for the fabrication of polyamide thin film nanocomposite membrane with enhanced antifouling and antibacterial properties. <i>Separation and Purification Technology</i> , 2021, 260, 118249.	3.9	19
61	High-flux PSF/PES-COOH hollow fiber loose nanofiltration membrane for high-efficiency dye-salt separation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108180.	3.3	19
62	Water/salt transport properties of organic/inorganic hybrid films based on cellulose triacetate. <i>Journal of Membrane Science</i> , 2018, 563, 571-583.	4.1	17
63	Poly(siloxane imide) Binder for Silicon-Based Lithium-Ion Battery Anodes via Rigidity/Softness Coupling. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2674-2680.	1.7	17
64	Protein Transport Properties of PAN Membranes Grafted with Hyperbranched Polyelectrolytes and Hyperbranched Zwitterions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 1019-1028.	1.8	15
65	Surface Modification of Cellulose Membranes To Prepare a High-Capacity Membrane Adsorber for Monoclonal Antibody Purification via Hydrophobic Charge-Induction Chromatography. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 13235-13246.	1.8	14
66	Synthesis, characterization and antibacterial properties of reverse osmosis membranes from cellulose bromoacetate. <i>Cellulose</i> , 2018, 25, 5967-5984.	2.4	14
67	MnO/Metal/Carbon Nanohybrid Lithium-Ion Battery Anode With Enhanced Electrochemical Performance: Universal Facile Scalable Synthesis and Fundamental Understanding. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900335.	1.9	14
68	Porous ZIF-8 Thin Layer Coating on ZnO Hollow Nanofibers for Enhanced Acetone Sensing. <i>ChemistrySelect</i> , 2020, 5, 2401-2407.	0.7	14
69	Declined ionic flux through the nano-pores of vertically aligned carbon nanotubes filled with PNIPAm hydrogel. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11111-11116.	5.2	13
70	Antibacterial Thin Film Composite Polyamide Membranes Prepared by Sequential Interfacial Polymerization. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000114.	1.7	13
71	Different roles of aqueous and organic additives in the morphology and performance of polyamide thin-film composite membranes. <i>Chemical Engineering Research and Design</i> , 2021, 165, 1-11.	2.7	13
72	Synthesis of membrane adsorbers via surface initiated ATRP of 2-dimethylaminoethyl methacrylate from microporous PVDF membranes. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014, 32, 880-891.	2.0	12

#	ARTICLE	IF	CITATIONS
73	Water and salt transport properties of the cellulose triacetate/reduced graphene oxide nanocomposite membranes. <i>Polymer</i> , 2020, 210, 122976.	1.8	10
74	High internal phase emulsion hierarchical porous polymer grafting polyol compounds for boron removal. <i>Journal of Water Process Engineering</i> , 2021, 41, 102025.	2.6	10
75	Enhanced 2-D MOFs nanosheets/PES-g-PEG mixed matrix membrane for efficient CO <sub>2</sub> separation. <i>Chemical Engineering Research and Design</i> , 2022, 180, 79-89.	2.7	10
76	Sinomenine-loaded microcapsules fabricated by phase reversion emulsification-drying in liquid method: An evaluation of process parameters, characterization, and released properties. <i>Journal of Bioactive and Compatible Polymers</i> , 2018, 33, 382-396.	0.8	9
77	A novel loose nanofiltration membrane with superior anti-biofouling performance prepared from zwitterion-grafted chitosan. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 132, 104191.	2.7	9
78	Template-free synthesis of titania architectures with controlled morphology evolution. <i>Journal of Materials Science</i> , 2016, 51, 3941-3956.	1.7	8
79	Surface modification of regenerated cellulose membrane based on thiolactone chemistry "A novel platform for mixed mode membrane adsorbers. <i>Applied Surface Science</i> , 2020, 511, 145539.	3.1	8
80	Chlorination as a simple but effective method to improve the water/salt selectivity of polybenzimidazole for desalination membrane applications. <i>Journal of Membrane Science</i> , 2021, 638, 119745.	4.1	8
81	Protein-Ligand interactions for hydrophobic charge-induction chromatography: A QCM-D study. <i>Applied Surface Science</i> , 2022, 572, 151420.	3.1	8
82	A mixed matrix membrane for enhanced CO <sub>2</sub> /N <sub>2</sub> separation via aligning hierarchical porous zeolite with a polyethersulfone based comb-like polymer. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 132, 104132.	2.7	8
83	Solvothermal synthesis of hierarchical Eu <sub>2</sub> O <sub>3</sub> nanostructures templated by PS-b-PMAA: morphology control via simple variation of water contents. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5789-5793.	5.2	7
84	The performance improvement of hollow fiber composite reverse osmosis membranes by post-treatments. <i>Desalination and Water Treatment</i> , 2011, 34, 32-36.	1.0	5
85	Porous titania/carbon hybrid microspheres templated by in situ formed polystyrene colloids. <i>Journal of Colloid and Interface Science</i> , 2016, 469, 242-256.	5.0	5
86	Probing and relating the morphology, structure and performance evolution of low pressure RO membranes under chlorine exposure. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106223.	3.3	5
87	Dual-recognition membrane Adsorbers combining hydrophobic charge-induction chromatography with surface imprinting via multicomponent reaction. <i>Journal of Chromatography A</i> , 2022, 1668, 462918.	1.8	5
88	In Situ Incorporation of Super-small Metallic High Capacity Nanoparticles and Mesoporous Structures for High-Performance TiO <sub>2</sub> /SnO <sub>2</sub> /Sn/Carbon Nanohybrid Lithium-ion Battery Anodes. <i>Energy Technology</i> , 2020, 8, 2000034.	1.8	4
89	Composite membrane of poly-guanidine cationic surface for desalination. <i>Water Science and Technology: Water Supply</i> , 0, , .	1.0	3
90	Ball-Milled Silicon with Amorphous Al <sub>2</sub> O <sub>3</sub> /C Hybrid Coating Embedded in Graphene/Graphite Nanosheets with a Boosted Lithium Storage Capability. <i>Langmuir</i> , 2022, 38, 8555-8563.	1.6	3

#	ARTICLE	IF	CITATIONS
91	Study on Lamellar Structures and Parameters of Polyethylene Hollow Fiber Membranes Made by Melt-Spinning and Stretching Method. <i>Applied Mechanics and Materials</i> , 2012, 178-181, 491-494.	0.2	2
92	Epoxy Resin Enables Facile Scalable Synthesis of CuO/C Nanohybrid Lithium-Ion Battery Anode with Enhanced Electrochemical Performance. <i>ChemistrySelect</i> , 2020, 5, 5479-5487.	0.7	2
93	Hierarchical porous cellulose membrane tethered with SiO <sub>2</sub> nanoparticles as a sorbent's platform for micropollutants removal. <i>Applied Surface Science</i> , 2021, 570, 151111.	3.1	1
94	SYNTHESIS AND SELF-ASSEMBLY OF AMPHIPHILIC TRI-BLOCK COPOLYMERS CONTAINING GLYCOPOLYMER SEGMENTS. <i>Acta Polymerica Sinica</i> , 2010, 010, 550-555.	0.0	1
95	Preparation and characterization of a high flux nanofiltration polyamide hollow fiber TFC membrane for drinking water production. , 0, 193, 177-188.		1
96	Metalized hierarchical porous poly-melamine-formaldehyde membrane for continuous-flow reduction of 4-nitrophenol. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 136, 104404.	2.7	1
97	Fabrication and Properties of the PVDF/PVDF-g-PMMA Blend Hydrophilic Membrane. <i>Advanced Materials Research</i> , 0, 418-420, 639-642.	0.3	0