

# Junyong Zhu

## List of Publications by Year in descending order

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90  
papers

7,383  
citations

57681

46  
h-index

62345

84  
g-index

90  
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90  
docs citations

90  
times ranked

6160  
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ growth of multifunctional porous organic polymer nanofilms with molecular sieving and catalytic abilities. <i>Chemical Engineering Journal</i> , 2022, 427, 130978.	6.6	13
2	MXene nanosheet stacks with tunable nanochannels for efficient molecular separation. <i>Chemical Engineering Journal</i> , 2022, 427, 132070.	6.6	41
3	Interfacial assembly of micro/nanoscale nanotube/silica achieves superhydrophobic melamine sponge for water/oil separation. <i>Separation and Purification Technology</i> , 2022, 280, 119920.	3.9	42
4	Tuning pore size and surface charge of poly(piperazinamide) nanofiltration membrane by enhanced chemical cleaning treatment. <i>Journal of Membrane Science</i> , 2022, 643, 120054.	4.1	24
5	In situ formation of porous organic polymer-based thin polyester membranes for loose nanofiltration. <i>Journal of Membrane Science</i> , 2022, 644, 120074.	4.1	26
6	Recent advances of loose nanofiltration membranes for dye/salt separation. <i>Separation and Purification Technology</i> , 2022, 285, 120228.	3.9	131
7	Covalent Organic Framework-Mediated Thin-Film Composite Polyamide Membranes toward Precise Ion Sieving. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 3427-3436.	4.0	45
8	Separation of textile wastewater using a highly permeable resveratrol-based loose nanofiltration membrane with excellent anti-fouling performance. <i>Chemical Engineering Journal</i> , 2022, 434, 134705.	6.6	55
9	Interface synthesis of flexible benzimidazole-linked polymer molecular-sieving membranes with superior antimicrobial activity. <i>Journal of Membrane Science</i> , 2022, 648, 120344.	4.1	5
10	Leaf-veins-inspired nickel phosphate nanotubes-reduced graphene oxide composite membranes for ultrafast organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022, 649, 120401.	4.1	20
11	Ultrathin polyamide membranes enabled by spin-coating assisted interfacial polymerization for high-flux nanofiltration. <i>Separation and Purification Technology</i> , 2022, 288, 120648.	3.9	17
12	A novel ceramic-based thin-film composite nanofiltration membrane with enhanced performance and regeneration potential. <i>Water Research</i> , 2022, 215, 118264.	5.3	24
13	Facile in situ decorating polyacrylonitrile membranes using polyoxometalates for enhanced separation performance. <i>Journal of Membrane Science</i> , 2022, 653, 120493.	4.1	13
14	Carbonic anhydrase membranes for carbon capture and storage. , 2022, 2, 100031.		4
15	Sugar-based membranes for nanofiltration. <i>Journal of Membrane Science</i> , 2021, 619, 118786.	4.1	46
16	Erythritol-based polyester loose nanofiltration membrane with fast water transport for efficient dye/salt separation. <i>Chemical Engineering Journal</i> , 2021, 406, 126796.	6.6	162
17	Fabrication of PES-based super-hydrophilic ultrafiltration membranes by combining hydrous ferric oxide particles and UV irradiation. <i>Separation and Purification Technology</i> , 2021, 259, 118132.	3.9	26
18	Design and fabrication of nanofiltration membranes based on intrinsic porous monomer resorcin[4]arene. <i>Desalination</i> , 2021, 500, 114861.	4.0	14

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19	Self-cleaning loose nanofiltration membranes enabled by photocatalytic Cu-triazolate MOFs for dye/salt separation. <i>Journal of Membrane Science</i> , 2021, 623, 119058.	4.1	87
20	Regulating composition and structure of nanofillers in thin film nanocomposite (TFN) membranes for enhanced separation performance: A critical review. <i>Separation and Purification Technology</i> , 2021, 266, 118567.	3.9	122
21	A co-casting route enables the formation of skinless, hydrophobic poly(vinylidene fluoride) membranes for DCMD. <i>Journal of Membrane Science</i> , 2021, 630, 119299.	4.1	25
22	Controllable and Rapid Synthesis of Conjugated Microporous Polymer Membranes via Interfacial Polymerization for Ultrafast Molecular Separation. <i>Chemistry of Materials</i> , 2021, 33, 7047-7056.	3.2	35
23	Amidoxime-functionalized polymer of intrinsic microporosity (AOPIM-1)-based thin film composite membranes with ultrahigh permeance for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2021, 632, 119375.	4.1	27
24	Electrophoretic nuclei assembly of MOFs in polyamide membranes for enhanced nanofiltration. <i>Desalination</i> , 2021, 512, 115125.	4.0	22
25	Graphene-like MOF nanosheets stabilize graphene oxide membranes enabling selective molecular sieving. <i>Journal of Membrane Science</i> , 2021, 633, 119397.	4.1	59
26	Exploring the potential usage of 3D printed membranes combined with PVDF coating in direct contact membrane distillation. <i>Desalination</i> , 2021, 513, 115134.	4.0	13
27	MOF laminates functionalized polyamide self-cleaning membrane for advanced loose nanofiltration. <i>Separation and Purification Technology</i> , 2021, 275, 119150.	3.9	34
28	A Facile and Scalable Fabrication Procedure for Thin-Film Composite Membranes: Integration of Phase Inversion and Interfacial Polymerization. <i>Environmental Science &amp; Technology</i> , 2020, 54, 1946-1954.	4.6	56
29	Hydrogel assisted interfacial polymerization for advanced nanofiltration membranes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3238-3245.	5.2	99
30	High-performance thin film nanocomposite membranes enabled by nanomaterials with different dimensions for nanofiltration. <i>Journal of Membrane Science</i> , 2020, 596, 117717.	4.1	86
31	One-step fabrication of isotropic poly(vinylidene fluoride) membranes for direct contact membrane distillation (DCMD). <i>Desalination</i> , 2020, 477, 114265.	4.0	36
32	Incorporation of lysine-modified UiO-66 for the construction of thin-film nanocomposite nanofiltration membrane with enhanced water flux and salt selectivity. <i>Desalination</i> , 2020, 493, 114661.	4.0	45
33	Porous organic polymer embedded thin-film nanocomposite membranes for enhanced nanofiltration performance. <i>Journal of Membrane Science</i> , 2020, 602, 117982.	4.1	47
34	Fabrication of thin film nanocomposite nanofiltration membrane incorporated with cellulose nanocrystals for removal of Cu(II) and Pb(II). <i>Chemical Engineering Science</i> , 2020, 228, 115998.	1.9	75
35	Microporous organic polymer-based membranes for ultrafast molecular separations. <i>Progress in Polymer Science</i> , 2020, 110, 101308.	11.8	83
36	Root-like polyamide membranes with fast water transport for high-performance nanofiltration. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25028-25034.	5.2	50

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37	Self-cleaning, antibacterial mixed matrix membranes enabled by photocatalyst Ti-MOFs for efficient dye removal. <i>Journal of Membrane Science</i> , 2020, 610, 118219.	4.1	79
38	Tuning intermolecular pores of resorcin[4]arene-based membranes for enhanced nanofiltration performance. <i>Journal of Membrane Science</i> , 2020, 610, 118282.	4.1	9
39	Polyarylene thioether sulfone/sulfonated sulfone nanofiltration membrane with enhancement of rejection and permeability via molecular design†. <i>Journal of Membrane Science</i> , 2020, 608, 118241.	4.1	19
40	Effect of (TiO <sub>2</sub> : ZnO) ratio on the anti-fouling properties of bio-inspired nanofiltration membranes. <i>Separation and Purification Technology</i> , 2020, 251, 117280.	3.9	25
41	Flexible Aliphatic-Aromatic Polyamide Thin Film Composite Membrane for Highly Efficient Organic Solvent Nanofiltration. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31962-31974.	4.0	53
42	Preparation, characterization and scaling propensity study of a dopamine incorporated RO/FO TFC membrane for pesticide removal. <i>Journal of Membrane Science</i> , 2020, 612, 118458.	4.1	21
43	Heteroepitaxial growth of vertically orientated zeolitic imidazolate framework (Co/Zn-ZIF) molecular sieve membranes. <i>AIChE Journal</i> , 2020, 66, e16935.	1.8	21
44	Controllable synthesis of a chemically stable molecular sieving nanofilm for highly efficient organic solvent nanofiltration. <i>Chemical Science</i> , 2020, 11, 4263-4271.	3.7	21
45	Support membrane pore blockage (SMPB): An important phenomenon during the fabrication of thin film composite membrane via interfacial polymerization. <i>Separation and Purification Technology</i> , 2019, 215, 670-680.	3.9	51
46	Structure architecture of micro/nanoscale ZIF-L on a 3D printed membrane for a superhydrophobic and underwater superoleophobic surface. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2723-2729.	5.2	79
47	Polyvinyl alcohol-assisted high-flux thin film nanocomposite membranes incorporated with halloysite nanotubes for nanofiltration. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1412-1422.	1.2	28
48	MOF-positioned polyamide membranes with a fishnet-like structure for elevated nanofiltration performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16313-16322.	5.2	166
49	High performance loose nanofiltration membranes obtained by a catechol-based route for efficient dye/salt separation. <i>Chemical Engineering Journal</i> , 2019, 375, 121982.	6.6	99
50	High flux thin film nanocomposite membranes based on porous organic polymers for nanofiltration. <i>Journal of Membrane Science</i> , 2019, 585, 19-28.	4.1	110
51	High-flux, antibacterial composite membranes via polydopamine-assisted PEI-TiO <sub>2</sub> /Ag modification for dye removal. <i>Chemical Engineering Journal</i> , 2019, 373, 275-284.	6.6	128
52	Covalent organic frameworks for membrane separation. <i>Chemical Society Reviews</i> , 2019, 48, 2665-2681.	18.7	733
53	A chemically assembled anion exchange membrane surface for monovalent anion selectivity and fouling reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6348-6356.	5.2	65
54	Facile synthesis of Kevlar nanofibrous membranes via regeneration of hydrogen bonds for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2019, 573, 612-620.	4.1	63

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55	Facile Construction of Long-Lasting Antibacterial Membrane by Using an Orientated Halloysite Nanotubes Interlayer. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 3235-3245.	1.8	17
56	Mussel-inspired modification of ion exchange membrane for monovalent separation. <i>Journal of Membrane Science</i> , 2018, 553, 139-150.	4.1	44
57	High-flux thin film composite membranes for nanofiltration mediated by a rapid co-deposition of polydopamine/piperazine. <i>Journal of Membrane Science</i> , 2018, 554, 97-108.	4.1	131
58	Mussel-Inspired Monovalent Selective Cation Exchange Membranes Containing Hydrophilic MIL53(Al) Framework for Enhanced Ion Flux. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 6275-6283.	1.8	19
59	Fabrication and characterization of novel antimicrobial thin film nano-composite membranes based on copper nanoparticles. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2737-2747.	1.6	17
60	The rapid emergence of two-dimensional nanomaterials for high-performance separation membranes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3773-3792.	5.2	223
61	Polymeric antimicrobial membranes enabled by nanomaterials for water treatment. <i>Journal of Membrane Science</i> , 2018, 550, 173-197.	4.1	198
62	New promising polymer for organic solvent nanofiltration: Oxidized poly (arylene sulfide sulfone). <i>Journal of Membrane Science</i> , 2018, 549, 438-445.	4.1	54
63	Development and characterization of polyethersulfone-based nanofiltration membrane with stability to hydrogen peroxide. <i>Journal of Membrane Science</i> , 2018, 550, 462-469.	4.1	35
64	Nano/microstructure decorated thin film composite poly (arylene sulfide sulfone) membrane constructed by induced fouling in organic solvent ultrafiltration. <i>Chemical Engineering Journal</i> , 2018, 348, 180-190.	6.6	26
65	A rapid deposition of polydopamine coatings induced by iron (III) chloride/hydrogen peroxide for loose nanofiltration. <i>Journal of Colloid and Interface Science</i> , 2018, 523, 86-97.	5.0	79
66	Charge-assisted ultrafiltration membranes for monovalent ions separation in electrodialysis. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45692.	1.3	5
67	Exfoliated MoS <sub>2</sub> nanosheets loaded on bipolar exchange membranes interfaces as advanced catalysts for water dissociation. <i>Separation and Purification Technology</i> , 2018, 194, 416-424.	3.9	25
68	Hydrophilic nanofiltration membranes with reduced humic acid fouling fabricated from copolymers designed by introducing carboxyl groups in the pendant benzene ring. <i>Journal of Membrane Science</i> , 2018, 563, 655-663.	4.1	58
69	Rapid water transport through controllable, ultrathin polyamide nanofilms for high-performance nanofiltration. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15701-15709.	5.2	148
70	High-Performance Thin-Film-Nanocomposite Cation Exchange Membranes Containing Hydrophobic Zeolitic Imidazolate Framework for Monovalent Selectivity. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 759.	1.3	10
71	Construction of graphene oxide based mixed matrix membranes with CO <sub>2</sub> -philic sieving gas-transport channels through strong $\pi$ - $\pi$ interactions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17854-17860.	5.2	35
72	Nanoscale tailor-made membranes for precise and rapid molecular sieve separation. <i>Nanoscale</i> , 2017, 9, 2942-2957.	2.8	83

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73	Graphene-based antimicrobial polymeric membranes: a review. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6776-6793.	5.2	174
74	Enzymatic construction of antibacterial ultrathin membranes for dyes removal. <i>Chemical Engineering Journal</i> , 2017, 323, 56-63.	6.6	85
75	Construction of TiO <sub>2</sub> @graphene oxide incorporated antifouling nanofiltration membrane with elevated filtration performance. <i>Journal of Membrane Science</i> , 2017, 533, 279-288.	4.1	171
76	Elevated Performance of Thin Film Nanocomposite Membranes Enabled by Modified Hydrophilic MOFs for Nanofiltration. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 1975-1986.	4.0	368
77	Mussel-Inspired Architecture of High-Flux Loose Nanofiltration Membrane Functionalized with Antibacterial Reduced Graphene Oxide@Copper Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 28990-29001.	4.0	125
78	High flux electroneutral loose nanofiltration membranes based on rapid deposition of polydopamine/polyethyleneimine. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14847-14857.	5.2	195
79	The role of the surfactant sodium dodecyl sulfate to dynamically reduce mass transfer resistance of SPEEK coated membrane for oil-in-water emulsion treatment. <i>Journal of Membrane Science</i> , 2017, 541, 9-18.	4.1	27
80	Cation-Exchange Membranes with Controlled Porosity in Electrodialysis Application. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 8111-8120.	1.8	15
81	Oriented Clay Nanotube Membrane Assembled on Microporous Polymeric Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 34914-34923.	4.0	62
82	Zeolitic Imidazolate Framework/Graphene Oxide Hybrid Nanosheets Functionalized Thin Film Nanocomposite Membrane for Enhanced Antimicrobial Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25508-25519.	4.0	283
83	Elevated salt transport of antimicrobial loose nanofiltration membranes enabled by copper nanoparticles via fast bioinspired deposition. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13211-13222.	5.2	125
84	Surface zwitterionic functionalized graphene oxide for a novel loose nanofiltration membrane. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1980-1990.	5.2	326
85	Zwitterionic functionalized layered double hydroxides nanosheets for a novel charged mosaic membrane with high salt permeability. <i>Journal of Membrane Science</i> , 2016, 510, 27-37.	4.1	85
86	Fabrication of a novel "loose" nanofiltration membrane by facile blending with Chitosan@Montmorillonite nanosheets for dyes purification. <i>Chemical Engineering Journal</i> , 2015, 265, 184-193.	6.6	265
87	Sulfonated halloysite nanotubes/polyethersulfone nanocomposite membrane for efficient dye purification. <i>Separation and Purification Technology</i> , 2015, 150, 243-251.	3.9	80
88	Fabrication of a Mixed Matrix Membrane with in Situ Synthesized Quaternized Polyethylenimine Nanoparticles for Dye Purification and Reuse. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 690-701.	3.2	94
89	Facile One-Pot Synthesis of Novel Spherical Zeolite@Reduced Graphene Oxide Composites for Cationic Dye Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 13711-13717.	1.8	77
90	Preparation and characterization of negatively charged PES nanofiltration membrane by blending with halloysite nanotubes grafted with poly (sodium 4-styrenesulfonate) via surface-initiated ATRP. <i>Journal of Membrane Science</i> , 2014, 465, 91-99.	4.1	140