

Junyong Zhu

List of Publications by Year in descending order

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90
papers

7,383
citations

50273

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docs citations

90
times ranked

5381
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ growth of multifunctional porous organic polymer nanofilms with molecular sieving and catalytic abilities. Chemical Engineering Journal, 2022, 427, 130978.	12.7	13
2	MXene nanosheet stacks with tunable nanochannels for efficient molecular separation. Chemical Engineering Journal, 2022, 427, 132070.	12.7	41
3	Interfacial assembly of micro/nanoscale nanotube/silica achieves superhydrophobic melamine sponge for water/oil separation. Separation and Purification Technology, 2022, 280, 119920.	7.9	42
4	Tuning pore size and surface charge of poly(piperazinamide) nanofiltration membrane by enhanced chemical cleaning treatment. Journal of Membrane Science, 2022, 643, 120054.	8.2	24
5	In situ formation of porous organic polymer-based thin polyester membranes for loose nanofiltration. Journal of Membrane Science, 2022, 644, 120074.	8.2	26
6	Recent advances of loose nanofiltration membranes for dye/salt separation. Separation and Purification Technology, 2022, 285, 120228.	7.9	131
7	Covalent Organic Framework-Mediated Thin-Film Composite Polyamide Membranes toward Precise Ion Sieving. ACS Applied Materials & Interfaces, 2022, 14, 3427-3436.	8.0	45
8	Separation of textile wastewater using a highly permeable resveratrol-based loose nanofiltration membrane with excellent anti-fouling performance. Chemical Engineering Journal, 2022, 434, 134705.	12.7	55
9	Interface synthesis of flexible benzimidazole-linked polymer molecular-sieving membranes with superior antimicrobial activity. Journal of Membrane Science, 2022, 648, 120344.	8.2	5
10	Leaf-veins-inspired nickel phosphate nanotubes-reduced graphene oxide composite membranes for ultrafast organic solvent nanofiltration. Journal of Membrane Science, 2022, 649, 120401.	8.2	20
11	Ultrathin polyamide membranes enabled by spin-coating assisted interfacial polymerization for high-flux nanofiltration. Separation and Purification Technology, 2022, 288, 120648.	7.9	17
12	A novel ceramic-based thin-film composite nanofiltration membrane with enhanced performance and regeneration potential. Water Research, 2022, 215, 118264.	11.3	24
13	Facile in situ decorating polyacrylonitrile membranes using polyoxometalates for enhanced separation performance. Journal of Membrane Science, 2022, 653, 120493.	8.2	13
14	Carbonic anhydrase membranes for carbon capture and storage. , 2022, 2, 100031.		4
15	Sugar-based membranes for nanofiltration. Journal of Membrane Science, 2021, 619, 118786.	8.2	46
16	Erythritol-based polyester loose nanofiltration membrane with fast water transport for efficient dye/salt separation. Chemical Engineering Journal, 2021, 406, 126796.	12.7	162
17	Fabrication of PES-based super-hydrophilic ultrafiltration membranes by combining hydrous ferric oxide particles and UV irradiation. Separation and Purification Technology, 2021, 259, 118132.	7.9	26
18	Design and fabrication of nanofiltration membranes based on intrinsic porous monomer resorcin[4]arene. Desalination, 2021, 500, 114861.	8.2	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.	8.2	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.	7.9	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.	8.2	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.	6.7	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.	8.2	27
24	Electrophoretic nuclei assembly of MOFs in polyamide membranes for enhanced nanofiltration. <i>Desalination</i> , 2021, 512, 115125.	8.2	22
25	Graphene-like MOF nanosheets stabilize graphene oxide membranes enabling selective molecular sieving. <i>Journal of Membrane Science</i> , 2021, 633, 119397.	8.2	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.	8.2	13
27	MOF laminates functionalized polyamide self-cleaning membrane for advanced loose nanofiltration. <i>Separation and Purification Technology</i> , 2021, 275, 119150.	7.9	34
28	A Facile and Scalable Fabrication Procedure for Thin-Film Composite Membranes: Integration of Phase Inversion and Interfacial Polymerization. <i>Environmental Science & Technology</i> , 2020, 54, 1946-1954.	10.0	56
29	Hydrogel assisted interfacial polymerization for advanced nanofiltration membranes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3238-3245.	10.3	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.	8.2	86
31	One-step fabrication of isotropic poly(vinylidene fluoride) membranes for direct contact membrane distillation (DCMD). <i>Desalination</i> , 2020, 477, 114265.	8.2	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.	8.2	45
33	Porous organic polymer embedded thin-film nanocomposite membranes for enhanced nanofiltration performance. <i>Journal of Membrane Science</i> , 2020, 602, 117982.	8.2	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.	3.8	75
35	Microporous organic polymer-based membranes for ultrafast molecular separations. <i>Progress in Polymer Science</i> , 2020, 110, 101308.	24.7	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.	10.3	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.	8.2	79
38	Tuning intermolecular pores of resorcin[4]arene-based membranes for enhanced nanofiltration performance. <i>Journal of Membrane Science</i> , 2020, 610, 118282.	8.2	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.	8.2	19
40	Effect of (TiO ₂ : ZnO) ratio on the anti-fouling properties of bio-inspired nanofiltration membranes. <i>Separation and Purification Technology</i> , 2020, 251, 117280.	7.9	25
41	Flexible Aliphatic–Aromatic Polyamide Thin Film Composite Membrane for Highly Efficient Organic Solvent Nanofiltration. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31962-31974.	8.0	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.	8.2	21
43	Heteroepitaxial growth of vertically orientated zeolitic imidazolate framework– (Co/Zn–ZIF–) molecular sieve membranes. <i>AIChE Journal</i> , 2020, 66, e16935.	3.6	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.	7.4	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.	7.9	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.	10.3	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.	2.4	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.	10.3	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.	12.7	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.	8.2	110
51	High-flux, antibacterial composite membranes via polydopamine-assisted PEI-TiO ₂ /Ag modification for dye removal. <i>Chemical Engineering Journal</i> , 2019, 373, 275-284.	12.7	128
52	Covalent organic frameworks for membrane separation. <i>Chemical Society Reviews</i> , 2019, 48, 2665-2681.	38.1	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.	10.3	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.	8.2	63

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55	Facile Construction of Long-Lasting Antibacterial Membrane by Using an Orientated Halloysite Nanotubes Interlayer. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3235-3245.	3.7	17
56	Mussel-inspired modification of ion exchange membrane for monovalent separation. <i>Journal of Membrane Science</i> , 2018, 553, 139-150.	8.2	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.	8.2	131
58	Mussel-Inspired Monovalent Selective Cation Exchange Membranes Containing Hydrophilic MIL53(Al) Framework for Enhanced Ion Flux. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 6275-6283.	3.7	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.	3.2	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.	10.3	223
61	Polymeric antimicrobial membranes enabled by nanomaterials for water treatment. <i>Journal of Membrane Science</i> , 2018, 550, 173-197.	8.2	198
62	New promising polymer for organic solvent nanofiltration: Oxidized poly (arylene sulfide sulfone). <i>Journal of Membrane Science</i> , 2018, 549, 438-445.	8.2	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.	8.2	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.	12.7	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.	9.4	79
66	Charge-assisted ultrafiltration membranes for monovalent ions separation in electrodialysis. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45692.	2.6	5
67	Exfoliated MoS ₂ nanosheets loaded on bipolar exchange membranes interfaces as advanced catalysts for water dissociation. <i>Separation and Purification Technology</i> , 2018, 194, 416-424.	7.9	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.	8.2	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.	10.3	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.	2.5	10
71	Construction of graphene oxide based mixed matrix membranes with CO ₂ -philic sieving gas-transport channels through strong π - π interactions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17854-17860.	10.3	35
72	Nanoscale tailor-made membranes for precise and rapid molecular sieve separation. <i>Nanoscale</i> , 2017, 9, 2942-2957.	5.6	83

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73	Graphene-based antimicrobial polymeric membranes: a review. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6776-6793.	10.3	174
74	Enzymatic construction of antibacterial ultrathin membranes for dyes removal. <i>Chemical Engineering Journal</i> , 2017, 323, 56-63.	12.7	85
75	Construction of TiO ₂ @graphene oxide incorporated antifouling nanofiltration membrane with elevated filtration performance. <i>Journal of Membrane Science</i> , 2017, 533, 279-288.	8.2	171
76	Elevated Performance of Thin Film Nanocomposite Membranes Enabled by Modified Hydrophilic MOFs for Nanofiltration. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1975-1986.	8.0	368
77	Mussel-Inspired Architecture of High-Flux Loose Nanofiltration Membrane Functionalized with Antibacterial Reduced Graphene Oxide@Copper Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28990-29001.	8.0	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.	10.3	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.	8.2	27
80	Cation-Exchange Membranes with Controlled Porosity in Electrodialysis Application. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8111-8120.	3.7	15
81	Oriented Clay Nanotube Membrane Assembled on Microporous Polymeric Substrates. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34914-34923.	8.0	62
82	Zeolitic Imidazolate Framework/Graphene Oxide Hybrid Nanosheets Functionalized Thin Film Nanocomposite Membrane for Enhanced Antimicrobial Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25508-25519.	8.0	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.	10.3	125
84	Surface zwitterionic functionalized graphene oxide for a novel loose nanofiltration membrane. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1980-1990.	10.3	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.	8.2	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.	12.7	265
87	Sulfonated halloysite nanotubes/polyethersulfone nanocomposite membrane for efficient dye purification. <i>Separation and Purification Technology</i> , 2015, 150, 243-251.	7.9	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.	6.7	94
89	Facile One-Pot Synthesis of Novel Spherical Zeolite@Reduced Graphene Oxide Composites for Cationic Dye Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 13711-13717.	3.7	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.	8.2	140