

Song Zhao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109
papers

3,505
citations

38
h-index

55
g-index

110
ext. papers

4,541
ext. citations

8.3
avg, IF

5.99
L-index

#	Paper	IF	Citations
109	Interlayer-modulated polyamide composite membrane for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022 , 647, 120306	9.6	2
108	Host-guest nanofiltration membranes having amino-complexed cucurbituril supramolecular channel for monovalent/divalent salts separation. <i>Desalination</i> , 2022 , 527, 115582	10.3	1
107	Covalent organic framework membrane reconstructed through intra-pore reaction having tunable performance for molecular separation. <i>Separation and Purification Technology</i> , 2022 , 285, 120387	8.3	0
106	Conjugated polyaniline derivative membranes enable ultrafast nanofiltration and organic-solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022 , 645, 120241	9.6	1
105	In-situ fabricated covalent organic frameworks-polyamide hybrid membrane for highly efficient molecular separation. <i>Journal of Membrane Science</i> , 2022 , 120544	9.6	0
104	Ultrathin and high-performance covalent organic frameworks composite membranes generated by oligomer triggered interfacial polymerization. <i>Journal of Membrane Science</i> , 2022 , 650, 120431	9.6	0
103	Nanofiltration membrane with crown ether as exclusive Li ⁺ transport channels achieving efficient extraction of lithium from salt lake brine. <i>Chemical Engineering Journal</i> , 2022 , 438, 135658	14.7	2
102	Membrane technology for CO ₂ capture: From pilot-scale investigation of two-stage plant to actual system design. <i>Journal of Membrane Science</i> , 2021 , 624, 119137	9.6	18
101	Swelling-controlled positioning of nanofillers through a polyamide layer in thin-film nanocomposite membranes for CO ₂ separation. <i>Journal of Membrane Science</i> , 2021 , 624, 119095	9.6	6
100	High-performance membrane with angstrom-scale manipulation of gas transport channels via polymeric decorated MOF cavities. <i>Journal of Membrane Science</i> , 2021 , 625, 119175	9.6	9
99	Covalent organic framework membranes with limited channels filling through in-situ grown polyaniline for efficient dye nanofiltration. <i>Chemical Engineering Journal</i> , 2021 , 414, 128929	14.7	23
98	High-flux polyamide thin film nanofiltration membrane incorporated with metal-induced ordered microporous polymers. <i>Separation and Purification Technology</i> , 2021 , 256, 117817	8.3	8
97	Mixed matrix membranes for CO ₂ separations by incorporating microporous polymer framework fillers with amine-rich nanochannels. <i>Journal of Membrane Science</i> , 2021 , 620, 118923	9.6	21
96	Sulfonated Reverse Osmosis Membrane Fabricated with Comonomer Having Excellent Scaling and Fouling Resistance. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 3095-3104	3.9	2
95	Reverse osmosis membranes with sulfonate and phosphate groups having excellent anti-scaling and anti-fouling properties. <i>Desalination</i> , 2021 , 509, 115076	10.3	5
94	In-situ growth of double-layered polyaniline composite membrane for organic solvent nanofiltration. <i>Chemical Engineering Journal</i> , 2021 , 420, 129338	14.7	8
93	Large-scale preparation of multilayer composite membranes for post-combustion CO ₂ capture. <i>Journal of Membrane Science</i> , 2021 , 636, 119595	9.6	5

92	Superhydrophilic Stainless Steel Mesh for Oil/Water Separation with Long-Term Durability, Impressive Corrosion Resistance, and Abrasion Resistance. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000262	3.5	4
91	The performance of epoxy coatings containing polyaniline (PANI) nanowires in neutral salt, alkaline, and acidic aqueous media. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49049	2.9	4
90	Recent Advances of Gas Transport Channels Constructed with Different Dimensional Nanomaterials in Mixed-Matrix Membranes for CO ₂ Separation. <i>Small Methods</i> , 2020 , 4, 1900749	12.8	22
89	Preparation of high-performance and pressure-resistant mixed matrix membranes for CO ₂ /H ₂ separation by modifying COF surfaces with the groups or segments of the polymer matrix. <i>Journal of Membrane Science</i> , 2020 , 601, 117882	9.6	27
88	Reverse osmosis membrane with simultaneous fouling- and scaling-resistance based on multilayered metal-phytic acid assembly. <i>Journal of Membrane Science</i> , 2020 , 601, 117888	9.6	18
87	Iodine Capture Using Zr-Based Metal-Organic Frameworks (Zr-MOFs): Adsorption Performance and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20429-20439	9.5	91
86	Unobstructed Ultrathin Gas Transport Channels in Composite Membranes by Interfacial Self-Assembly. <i>Advanced Materials</i> , 2020 , 32, e1907701	24	33
85	Porous MOF-808@PVDF beads for removal of iodine from gas streams.. <i>RSC Advances</i> , 2020 , 10, 44679-44687	9.7	16
84	Interfacial polymerized and pore-variable covalent organic framework composite membrane for dye separation. <i>Chemical Engineering Journal</i> , 2020 , 384, 123347	14.7	66
83	1-methylimidazole as a novel additive for reverse osmosis membrane with high flux-rejection combinations and good stability. <i>Journal of Membrane Science</i> , 2020 , 599, 117830	9.6	17
82	Reuse of PANI wastewater treated by anodic oxidation/electro-Fenton for the preparation of PANI. <i>Chemosphere</i> , 2020 , 245, 125689	8.4	2
81	PVC-based hybrid membranes containing metal-organic frameworks for Li ⁺ /Mg ²⁺ separation. <i>Journal of Membrane Science</i> , 2020 , 596, 117724	9.6	37
80	Lithium extraction from synthetic brine with high Mg ²⁺ /Li ⁺ ratio using the polymer inclusion membrane. <i>Desalination</i> , 2020 , 496, 114710	10.3	19
79	Antifouling and anticorrosion performance of the composite coating made of tetrabromobisphenol-A epoxy and polyaniline nanowires. <i>Progress in Organic Coatings</i> , 2020 , 148, 105888	4.8	3
78	Experimental Study of the Crystal Habit of High Explosive Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) in Acetone and Dimethyl Sulfoxide. <i>Crystal Growth and Design</i> , 2020 , 20, 6622-6628	3.5	5
77	Combining tannic acid-modified support and a green co-solvent for high performance reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2020 , 595, 117474	9.6	21
76	Robust superhydrophobic mesh coated by PANI/TiO ₂ nanoclusters for oil/water separation with high flux, self-cleaning, photodegradation and anti-corrosion. <i>Separation and Purification Technology</i> , 2020 , 235, 116166	8.3	30
75	Efficient removal of Cr (VI) by magnetic and recyclable calcined CoFe-LDH/g-C ₃ N ₄ via the synergy of adsorption and photocatalysis under visible light. <i>Chemical Engineering Journal</i> , 2020 , 380, 122600	14.7	118

74	Robust porous polymers bearing phosphine oxide/chalcogenide ligands for volatile iodine capture. <i>Chemical Engineering Journal</i> , 2020 , 379, 122365	14.7	33
73	Elucidating mechanisms of silica scaling in membrane distillation: effects of membrane surface wettability. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 2004-2014	4.2	13
72	Bifunctional oxygen-vacancy abundant perovskite nanosheets for improving protective performance of epoxy coatings. <i>Progress in Organic Coatings</i> , 2019 , 137, 105301	4.8	4
71	Treatment of Polyaniline Wastewater by Coupling of Photoelectro-Fenton and Heterogeneous Photocatalysis with Black TiO ₂ Nanotubes. <i>ACS Omega</i> , 2019 , 4, 9664-9672	3.9	8
70	Confined growth of skin layer for high performance reverse osmosis membrane. <i>Journal of Membrane Science</i> , 2019 , 585, 208-217	9.6	21
69	Some Important Issues of the Commercial Production of 1-D Nano-PANI. <i>Polymers</i> , 2019 , 11,	4.5	6
68	High protective performance coatings assembled by epoxy-modified furfural-acetone containing polyaniline nanowires for mild steel. <i>Progress in Organic Coatings</i> , 2019 , 134, 48-57	4.8	5
67	Amino-modified hollow mesoporous silica nanospheres-incorporated reverse osmosis membrane with high performance. <i>Journal of Membrane Science</i> , 2019 , 581, 168-177	9.6	41
66	Post-combustion CO ₂ capture with membrane process: Practical membrane performance and appropriate pressure. <i>Journal of Membrane Science</i> , 2019 , 581, 195-213	9.6	39
65	Mineral scaling in membrane desalination: Mechanisms, mitigation strategies, and feasibility of scaling-resistant membranes. <i>Journal of Membrane Science</i> , 2019 , 579, 52-69	9.6	93
64	p-Directed Incorporation of Phosphonates into MOF-808 via Ligand Exchange: Stability and Adsorption Properties for Uranium. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33931-33940	9.5	60
63	AC impedance function of electrochemical working station as novel curing degree monitor method: A model curing system of epoxy/anhydride/DMP-30. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 145, 600-610	4.6	2
62	Trade-off in membrane distillation with monolithic omniphobic membranes. <i>Nature Communications</i> , 2019 , 10, 3220	17.4	56
61	A highly efficient cathode based on modified graphite felt for aniline degradation by electro-Fenton. <i>Chemosphere</i> , 2019 , 235, 49-57	8.4	22
60	Degradation of aniline by photoelectro-Fenton process using g-C ₃ N ₄ based cathode. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 848, 113273	4.1	11
59	The high performance of polyaniline-gel network modified electrode in 3-(2,2,6,6-tetramethyl-piperidyl)-1-oxyl)-1-methylimidazoliumbromide biredox electrolyte used for supercapacitor. <i>Journal of Power Sources</i> , 2019 , 434, 226745	8.9	6
58	Support surface pore structures matter: Effects of support surface pore structures on the TFC gas separation membrane performance over a wide pressure range. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 1807-1816	3.2	8
57	Penetrated COF Channels: Amino Environment and Suitable Size for CO Preferential Adsorption and Transport in Mixed Matrix Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5306-5315	9.5	50

56	Metal-induced ordered microporous polymers for fabricating large-area gas separation membranes. <i>Nature Materials</i> , 2019 , 18, 163-168	27	113
55	Combining co-solvent-optimized interfacial polymerization and protective coating-controlled chlorination for highly permeable reverse osmosis membranes with high rejection. <i>Journal of Membrane Science</i> , 2019 , 572, 61-72	9.6	33
54	Metal-induced polymer framework membrane with high performance for CO ₂ separation. <i>AIChE Journal</i> , 2019 , 65, 239-249	3.6	15
53	Closed-Loop Electrochemical Recycling of Spent Copper(II) from Etchant Wastewater Using a Carbon Nanotube Modified Graphite Felt Anode. <i>Environmental Science & Technology</i> , 2018 , 52, 5940-5948	10.3	40
52	Reverse osmosis membranes with guanidine and amine enriched surface for biofouling and organic fouling control. <i>Desalination</i> , 2018 , 430, 74-85	10.3	39
51	In situ synthesis of polymer grafted ZIFs and application in mixed matrix membrane for CO ₂ separation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3151-3161	13	69
50	Nitrogen-doped graphene prepared by a millisecond photo-thermal process and its applications. <i>Organic Electronics</i> , 2018 , 56, 221-231	3.5	9
49	A novel pathway for high performance RO membrane: Preparing active layer with decreased thickness and enhanced compactness by incorporating tannic acid into the support. <i>Journal of Membrane Science</i> , 2018 , 555, 157-168	9.6	60
48	Antifouling and anticorrosion properties of one-pot synthesized dedoped bromo-substituted polyaniline and its composite coatings. <i>Surface and Coatings Technology</i> , 2018 , 334, 7-18	4.4	18
47	Combined Organic Fouling and Inorganic Scaling in Reverse Osmosis: Role of Protein-Silica Interactions. <i>Environmental Science & Technology</i> , 2018 , 52, 9145-9153	10.3	39
46	Oxygen vacancy semiconductor: an additive to improve corrosion protective performance significantly. <i>Journal of Materials Science</i> , 2018 , 53, 15614-15620	4.3	5
45	Electrochemical Preparation of Polyaniline Nanowires with the Used Electrolyte Solution Treated with the Extraction Process and Their Electrochemical Performance. <i>Nanomaterials</i> , 2018 , 8,	5.4	8
44	Hydrophilic and antimicrobial core-shell nanoparticles containing guanidine groups for ultrafiltration membrane modification.. <i>RSC Advances</i> , 2018 , 8, 24690-24700	3.7	11
43	Antibacterial and antifouling performance of bisphenol-A/Poly(ethylene glycol) binary epoxy coatings containing bromine-benzyl-disubstituted polyaniline. <i>Progress in Organic Coatings</i> , 2018 , 124, 61-70	4.8	11
42	Carbonic anhydrase inspired poly(N-vinylimidazole)/zeolite Zn-hybrid membranes for CO capture. <i>Chemical Communications</i> , 2018 , 54, 7239-7242	5.8	11
41	Improved antibacterial, antifouling and corrosion protective performance of epoxy coatings with poly(m-aminophenol). <i>Progress in Organic Coatings</i> , 2018 , 115, 9-17	4.8	17
40	CO ₂ -Selective Membranes: How Easy Is Their Moving From Laboratory to Industrial Scale? 2018 , 75-102		2
39	Recent advances on the membrane processes for CO ₂ separation. <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 2280-2291	3.2	39

38	Hydrothermal pretreatment: A simple method for dry substrate membrane regeneration. <i>Separation and Purification Technology</i> , 2018 , 199, 152-160	8.3	2
37	Giant Rheological Effect of Shear Thickening Suspension Comprising Silica Nanoparticles with No Aggregation. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 261-265	9.1	7
36	Antifouling and antibacterial behavior of polyethersulfone membrane incorporating polyaniline@silver nanocomposites. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 710-719	4.2	18
35	Relating Silica Scaling in Reverse Osmosis to Membrane Surface Properties. <i>Environmental Science & Technology</i> , 2017 , 51, 4396-4406	10.3	84
34	Recent advances on mixed matrix membranes for CO ₂ separation. <i>Chinese Journal of Chemical Engineering</i> , 2017 , 25, 1581-1597	3.2	80
33	A support surface pore structure re-construction method to enhance the flux of TFC RO membrane. <i>Journal of Membrane Science</i> , 2017 , 541, 39-52	9.6	43
32	Electrochemical impedance spectroscopy (EIS): An efficiency method to monitor resin curing processes. <i>Sensors and Actuators A: Physical</i> , 2016 , 250, 78-86	3.9	23
31	Polymeric composite membrane fabricated by 2-aminoterephthalic acid chemically cross-linked polyvinylamine for CO ₂ separation under high temperature. <i>Journal of Membrane Science</i> , 2016 , 518, 60-71	9.6	19
30	Preparation of multifunctional conductive polymers with-C = N-conjugated system and amino groups and application as active coating additives. <i>Reactive and Functional Polymers</i> , 2016 , 109, 79-87	4.6	5
29	Adjusting carrier microenvironment in CO ₂ separation fixed carrier membrane. <i>Journal of Membrane Science</i> , 2016 , 511, 9-19	9.6	13
28	Effect of surface modification and medium on the rheological properties of silica nanoparticle suspensions. <i>Ceramics International</i> , 2016 , 42, 7767-7773	5.1	17
27	Enhanced performance of mixed matrix membrane by incorporating a highly compatible covalent organic framework into poly(vinylamine) for hydrogen purification. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9167-9174	6.7	59
26	In situ immobilization of silver nanoparticles for improving permeability, antifouling and anti-bacterial properties of ultrafiltration membrane. <i>Journal of Membrane Science</i> , 2016 , 499, 269-281	9.6	165
25	Enhancing the flux of brackish water TFC RO membrane by improving support surface porosity via a secondary pore-forming method. <i>Journal of Membrane Science</i> , 2016 , 498, 227-241	9.6	74
24	Effect of acid and temperature on the discontinuous shear thickening phenomenon of silica nanoparticle suspensions. <i>Chemical Physics Letters</i> , 2016 , 658, 210-214	2.5	12
23	A Highly Permeable Aligned Montmorillonite Mixed-Matrix Membrane for CO ₂ Separation. <i>Angewandte Chemie</i> , 2016 , 128, 9467-9471	3.6	26
22	A Highly Permeable Aligned Montmorillonite Mixed-Matrix Membrane for CO ₂ Separation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9321-5	16.4	47
21	Millisecond photo-thermal process on significant improvement of supercapacitor performance. <i>Applied Thermal Engineering</i> , 2016 , 109, 186-195	5.8	5

20	Improving permeability and antifouling performance of polyethersulfone ultrafiltration membrane by incorporation of ZnO-DMF dispersion containing nano-ZnO and polyvinylpyrrolidone. <i>Journal of Membrane Science</i> , 2015 , 478, 105-116	9.6	119
19	Preparation and characterization of a polyethersulfone/polyaniline nanocomposite membrane for ultrafiltration and as a substrate for a gas separation membrane. <i>RSC Advances</i> , 2015 , 5, 27211-27223	3.7	42
18	Parametric analysis and potential prediction of membrane processes for hydrogen production and pre-combustion CO ₂ capture. <i>Chemical Engineering Science</i> , 2015 , 135, 202-216	4.4	18
17	Improved performance of polyamide thin-film composite nanofiltration membrane by using polyethersulfone/polyaniline membrane as the substrate. <i>Journal of Membrane Science</i> , 2015 , 493, 263-274	9.6	80
16	Mixed-Matrix Membranes for CO ₂ /N ₂ Separation Comprising a Poly(vinylamine) Matrix and Metal-Organic Frameworks. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 5139-5148	3.9	55
15	Relationship between polymer/filler interfaces in separation layers and gas transport properties of mixed matrix composite membranes. <i>Journal of Membrane Science</i> , 2015 , 495, 252-268	9.6	59
14	A high performance PVAm@IT membrane containing high-speed facilitated transport channels for CO ₂ separation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16746-16761	13	50
13	A synergistic strategy via the combination of multiple functional groups into membranes towards superior CO ₂ separation performances. <i>Journal of Membrane Science</i> , 2015 , 476, 243-255	9.6	43
12	The influence of the nonsolvent intrusion through the casting film bottom surface on the macrovoid formation. <i>Journal of Membrane Science</i> , 2014 , 464, 8-19	9.6	8
11	Fabrication of high-performance facilitated transport membranes for CO ₂ separation. <i>Chemical Science</i> , 2014 , 5, 2843-2849	9.4	90
10	The effect of pH of coagulation bath on tailoring the morphology and separation performance of polysulfone/polyaniline ultrafiltration membrane. <i>Journal of Membrane Science</i> , 2014 , 469, 316-325	9.6	28
9	Poly(ether sulfone)/Polyaniline Nanocomposite Membranes: Effect of Nanofiber Size on Membrane Morphology and Properties. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11468-11477	3.9	21
8	High adsorption performance polymers modified by small molecules containing functional groups for CO ₂ separation. <i>RSC Advances</i> , 2013 , 3, 50-54	3.7	10
7	Gas separation membrane with CO ₂ -facilitated transport highway constructed from amino carrier containing nanorods and macromolecules. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 246-249	13	70
6	COD and nitrogen removal in facilitated transfer membrane-aerated biofilm reactor (FT-MABR). <i>Journal of Membrane Science</i> , 2012 , 389, 257-264	9.6	40
5	Performance Improvement of Polysulfone Ultrafiltration Membrane Using Well-Dispersed Polyaniline/Poly(vinylpyrrolidone) Nanocomposite as the Additive. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 4661-4672	3.9	79
4	Mixed pharmaceutical wastewater treatment by integrated membrane-aerated biofilm reactor (MABR) system--a pilot-scale study. <i>Bioresource Technology</i> , 2012 , 122, 189-95	11	64
3	Comparison study of the effect of PVP and PANI nanofibers additives on membrane formation mechanism, structure and performance. <i>Journal of Membrane Science</i> , 2011 , 385-386, 110-122	9.6	80

2	Performance improvement of polysulfone ultrafiltration membrane using PANiEB as both pore forming agent and hydrophilic modifier. <i>Journal of Membrane Science</i> , 2011 , 385-386, 251-262	9.6	123
1	PSf/PANI nanocomposite membrane prepared by in situ blending of PSf and PANI/NMP. <i>Journal of Membrane Science</i> , 2011 , 376, 83-95	9.6	66