

# Shaofei Wang

## List of Publications by Year in descending order

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70  
papers

5,809  
citations

94433

37  
h-index

88630

70  
g-index

70  
all docs

70  
docs citations

70  
times ranked

4545  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolated iron/polyether sulfone catalytic membranes for rapid phenol removal. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51508.	2.6	3
2	Pebax-based membrane filled with photo-responsive Azo@NH <sub>2</sub> -MIL-53 nanoparticles for efficient SO <sub>2</sub> /N <sub>2</sub> separation. <i>Separation and Purification Technology</i> , 2022, 296, 121363.	7.9	6
3	Electrospinning in membrane contactor: manufacturing Elec-PVDF/SiO <sub>2</sub> superhydrophobic surface for efficient flue gas desulphurization applications. <i>Green Chemical Engineering</i> , 2021, 2, 111-121.	6.3	14
4	Metal organic frameworks decorated membrane contactor constructing SO <sub>2</sub> -philic channels for efficient flue gas desulphurization. <i>Journal of Membrane Science</i> , 2021, 620, 118908.	8.2	10
5	Flexible isoporous air filters for high-efficiency particle capture. <i>Polymer</i> , 2021, 213, 123278.	3.8	4
6	Constructing superhydrophobic surface of PES/PES-SiO <sub>2</sub> mixed matrix membrane contactors for efficient SO <sub>2</sub> capture. <i>Separation and Purification Technology</i> , 2021, 259, 118222.	7.9	16
7	Superhydrophobic Surface-Constructed Membrane Contactor with Hierarchical Lotus-Leaf-Like Interfaces for Efficient SO <sub>2</sub> Capture. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 1827-1837.	8.0	15
8	Light-responsive metal-organic framework sheets constructed smart membranes with tunable transport channels for efficient gas separation. <i>RSC Advances</i> , 2021, 12, 517-527.	3.6	10
9	Amino-functionalized POSS nanocage intercalated graphene oxide membranes for efficient biogas upgrading. <i>Journal of Membrane Science</i> , 2020, 596, 117733.	8.2	43
10	Efficient CO <sub>2</sub> Separation of Multi-Permeable Mixed Matrix Membranes with a Unique Interfacial Structure Regulated by Mesoporous Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 48067-48076.	8.0	17
11	Smart covalent organic networks (CONs) with on-off-light-switchable pores for molecular separation. <i>Science Advances</i> , 2020, 6, eabb3188.	10.3	71
12	Spray-coated graphene oxide hollow fibers for nanofiltration. <i>Journal of Membrane Science</i> , 2020, 606, 118006.	8.2	27
13	Exploration of the Synergy Between 2D Nanosheets and a Non-2D Filler in Mixed Matrix Membranes for Gas Separation. <i>Frontiers in Chemistry</i> , 2020, 8, 58.	3.6	22
14	Enhanced CO <sub>2</sub> separation in membranes with anion-cation dual pathways. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 38, 355-365.	6.8	6
15	Two-dimensional nanochannel membranes for molecular and ionic separations. <i>Chemical Society Reviews</i> , 2020, 49, 1071-1089.	38.1	242
16	Oriented Zeolitic Imidazolate Framework (ZIF) Nanocrystal Films for Molecular Separation Membranes. <i>ACS Applied Nano Materials</i> , 2020, 3, 3839-3846.	5.0	20
17	An organic electrochemical transistor integrated with a molecularly selective isoporous membrane for amyloid- $\beta$ detection. <i>Biosensors and Bioelectronics</i> , 2019, 143, 111561.	10.1	36
18	2D-dual-spacing channel membranes for high performance organic solvent nanofiltration. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11673-11682.	10.3	88

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19	Stable Graphene Oxide Cross-Linked Membranes for Organic Solvent Nanofiltration. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 23106-23113.	3.7	29
20	Enhanced hydrolysis of cellulose by catalytic polyethersulfone membranes with straight-through catalytic channels. <i>Bioresource Technology</i> , 2019, 294, 122119.	9.6	17
21	Interface engineering of mixed matrix membrane via CO <sub>2</sub> -philic polymer brush functionalized graphene oxide nanosheets for efficient gas separation. <i>Journal of Membrane Science</i> , 2019, 586, 23-33.	8.2	42
22	Mixed matrix membrane contactor containing core-shell hierarchical Cu@4A filler for efficient SO <sub>2</sub> capture. <i>Journal of Hazardous Materials</i> , 2019, 376, 160-169.	12.4	16
23	Porous organosilicon nanotubes in Pebax-based mixed-matrix membranes for biogas purification. <i>Journal of Membrane Science</i> , 2019, 573, 301-308.	8.2	41
24	Enhanced carbon dioxide flux by catechol@Zn <sup>2+</sup> synergistic manipulation of graphene oxide membranes. <i>Chemical Engineering Science</i> , 2019, 195, 230-238.	3.8	26
25	Mixed matrix membranes containing well-designed composite microcapsules for CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2019, 572, 650-657.	8.2	38
26	Mixed matrix membranes comprising aminosilane-functionalized graphene oxide for enhanced CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2019, 570-571, 343-354.	8.2	175
27	Similarly sized protein separation of charge-selective ethylene vinyl alcohol copolymer membrane by grafting dimethylaminoethyl methacrylate. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46374.	2.6	16
28	Synergistic effects of zeolite imidazole framework@graphene oxide composites in humidified mixed matrix membranes on CO <sub>2</sub> separation. <i>RSC Advances</i> , 2018, 8, 6099-6109.	3.6	93
29	Nanoporous ZIF-67 embedded polymers of intrinsic microporosity membranes with enhanced gas separation performance. <i>Journal of Membrane Science</i> , 2018, 548, 309-318.	8.2	130
30	Enhanced Hydrolysis of Cellulose by Highly Dispersed Sulfonated Graphene Oxide. <i>BioResources</i> , 2018, 13, .	1.0	8
31	Graphene Oxide Liquid Crystal Membranes in Protic Ionic Liquid for Nanofiltration. <i>ACS Applied Nano Materials</i> , 2018, 1, 4661-4670.	5.0	24
32	Molecular engineering of organic-inorganic interface towards high-performance polyelectrolyte membrane via amphiphilic block copolymer. <i>Journal of Membrane Science</i> , 2018, 563, 1-9.	8.2	10
33	Constructing robust and highly-selective hydrogel membranes by bioadhesion-inspired method for CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2018, 563, 229-237.	8.2	11
34	Mixed matrix membranes comprising polymers of intrinsic microporosity and covalent organic framework for gas separation. <i>Journal of Membrane Science</i> , 2017, 528, 273-283.	8.2	177
35	Protein adsorption and desorption behavior of a pH-responsive membrane based on ethylene vinyl alcohol copolymer. <i>RSC Advances</i> , 2017, 7, 21398-21405.	3.6	19
36	Bioinspired Ultrastrong Solid Electrolytes with Fast Proton Conduction along 2D Channels. <i>Advanced Materials</i> , 2017, 29, 1605898.	21.0	81

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37	Perspectives on water-facilitated CO <sub>2</sub> capture materials. Journal of Materials Chemistry A, 2017, 5, 6794-6816.	10.3	56
38	Widening CO <sub>2</sub> -facilitated transport passageways in SPEEK matrix using polymer brushes functionalized double-shelled organic submicrocapsules for efficient gas separation. Journal of Membrane Science, 2017, 525, 330-341.	8.2	15
39	Enhanced CO <sub>2</sub> selectivities by incorporating CO <sub>2</sub> -philic PEG-POSS into polymers of intrinsic microporosity membrane. Journal of Membrane Science, 2017, 543, 69-78.	8.2	60
40	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO <sub>2</sub> Separations. Angewandte Chemie - International Edition, 2017, 56, 14246-14251.	13.8	121
41	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO <sub>2</sub> Separations. Angewandte Chemie, 2017, 129, 14434-14439.	2.0	13
42	Highly Hydroxide-Conductive Nanostructured Solid Electrolyte via Predesigned Ionic Nanoaggregates. ACS Applied Materials & Interfaces, 2017, 9, 28346-28354.	8.0	19
43	Facilitated transport membranes by incorporating graphene nanosheets with high zinc ion loading for enhanced CO <sub>2</sub> separation. Journal of Membrane Science, 2017, 522, 351-362.	8.2	102
44	Advances in high permeability polymer-based membrane materials for CO <sub>2</sub> separations. Energy and Environmental Science, 2016, 9, 1863-1890.	30.8	612
45	Enhanced gas separation performance of mixed matrix membranes from graphitic carbon nitride nanosheets and polymers of intrinsic microporosity. Journal of Membrane Science, 2016, 514, 15-24.	8.2	103
46	A highly permeable graphene oxide membrane with fast and selective transport nanochannels for efficient carbon capture. Energy and Environmental Science, 2016, 9, 3107-3112.	30.8	192
47	Facilitated transport membranes by incorporating different divalent metal ions as CO <sub>2</sub> carriers. RSC Advances, 2016, 6, 65282-65290.	3.6	20
48	Comparison of facilitated transport behavior and separation properties of membranes with imidazole groups and zinc ions as CO <sub>2</sub> carriers. Journal of Membrane Science, 2016, 505, 44-52.	8.2	34
49	Constructing asymmetric membranes via surface segregation for efficient carbon capture. Journal of Membrane Science, 2016, 500, 25-32.	8.2	13
50	Nanostructured Ion-Exchange Membranes for Fuel Cells: Recent Advances and Perspectives. Advanced Materials, 2015, 27, 5280-5295.	21.0	335
51	Enhancing the CO <sub>2</sub> separation performance of composite membranes by the incorporation of amino acid-functionalized graphene oxide. Journal of Materials Chemistry A, 2015, 3, 6629-6641.	10.3	152
52	Enhanced Interfacial Interaction and CO <sub>2</sub> Separation Performance of Mixed Matrix Membrane by Incorporating Polyethylenimine-Decorated Metal-Organic Frameworks. ACS Applied Materials & Interfaces, 2015, 7, 1065-1077.	8.0	162
53	Constructing CO <sub>2</sub> transport passageways in Matrimid® membranes using nanohydrogels for efficient carbon capture. Journal of Membrane Science, 2015, 474, 156-166.	8.2	45
54	Synergistic effect of combining carbon nanotubes and graphene oxide in mixed matrix membranes for efficient CO <sub>2</sub> separation. Journal of Membrane Science, 2015, 479, 1-10.	8.2	219

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55	Efficient CO <sub>2</sub> Capture by Functionalized Graphene Oxide Nanosheets as Fillers To Fabricate Multi-Permselective Mixed Matrix Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 5528-5537.	8.0	305
56	Anionic surfactant-doped Pebax membrane with optimal free volume characteristics for efficient CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2015, 493, 460-469.	8.2	34
57	Janus composite nanoparticle-incorporated mixed matrix membranes for CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2015, 489, 1-10.	8.2	62
58	Mixed matrix membranes composed of sulfonated poly(ether ether ketone) and a sulfonated metal-organic framework for gas separation. <i>Journal of Membrane Science</i> , 2015, 488, 67-78.	8.2	91
59	Trapping bound water within a polymer electrolyte membrane of calcium phosphotungstate for efficient CO <sub>2</sub> capture. <i>Chemical Communications</i> , 2015, 51, 1901-1904.	4.1	15
60	Enhanced CO <sub>2</sub> separation properties by incorporating poly(ethylene glycol)-containing polymeric submicrospheres into polyimide membrane. <i>Journal of Membrane Science</i> , 2015, 473, 310-317.	8.2	47
61	Facilitated transport of small molecules and ions for energy-efficient membranes. <i>Chemical Society Reviews</i> , 2015, 44, 103-118.	38.1	211
62	Pebax-PEG-MWCNT hybrid membranes with enhanced CO <sub>2</sub> capture properties. <i>Journal of Membrane Science</i> , 2014, 460, 62-70.	8.2	223
63	Efficient CO <sub>2</sub> capture by humidified polymer electrolyte membranes with tunable water state. <i>Energy and Environmental Science</i> , 2014, 7, 1489.	30.8	119
64	High permeability hydrogel membranes of chitosan/poly ether-block-amide blends for CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2014, 469, 198-208.	8.2	103
65	Enhanced CO <sub>2</sub> Permeability of Membranes by Incorporating Polyzwitterion@CNT Composite Particles into Polyimide Matrix. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13051-13060.	8.0	73
66	High-Performance Composite Membrane with Enriched CO <sub>2</sub> -philic Groups and Improved Adhesion at the Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 6654-6663.	8.0	61
67	Facilitated transport mixed matrix membranes incorporated with amine functionalized MCM-41 for enhanced gas separation properties. <i>Journal of Membrane Science</i> , 2014, 465, 78-90.	8.2	196
68	SPEEK/amine-functionalized TiO <sub>2</sub> submicrospheres mixed matrix membranes for CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2014, 467, 23-35.	8.2	84
69	Recent advances in the fabrication of advanced composite membranes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10058.	10.3	252
70	Bioadhesion-inspired polymer-inorganic nanohybrid membranes with enhanced CO <sub>2</sub> capture properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 19617.	6.7	57