

Yuzhong Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Mixed matrix membranes comprising aminosilane-functionalized graphene oxide for enhanced CO ₂ separation. <i>Journal of Membrane Science</i> , 2019, 570-571, 343-354.	4.1	175
2	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO ₂ Separations. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14246-14251.	7.2	121
3	Interface engineering of mixed matrix membrane via CO ₂ -philic polymer brush functionalized graphene oxide nanosheets for efficient gas separation. <i>Journal of Membrane Science</i> , 2019, 586, 23-33.	4.1	42
4	Tuning the performance of CO ₂ separation membranes by incorporating multifunctional modified silica microspheres into polymer matrix. <i>Journal of Membrane Science</i> , 2016, 514, 73-85.	4.1	35
5	Mixed matrix membranes fabricated by a facile in situ biomimetic mineralization approach for efficient CO ₂ separation. <i>Journal of Membrane Science</i> , 2016, 508, 84-93.	4.1	27
6	Porphyrin-functionalized porous polysulfone membrane towards an optical sensor membrane for sorption and detection of cadmium(II). <i>Journal of Hazardous Materials</i> , 2016, 301, 233-241.	6.5	26
7	Modification of Supramolecular Membranes with 3D Hydrophilic Slide-Rings for the Improvement of Antifouling Properties and Effective Separation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28527-28537.	4.0	25
8	Aggregation and supramolecular chirality of 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin on an achiral poly(2-(dimethylamino)ethyl methacrylate)-grafted ethylene-vinyl alcohol membrane. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3650-3658.	2.7	19
9	Protein adsorption and desorption behavior of a pH-responsive membrane based on ethylene vinyl alcohol copolymer. <i>RSC Advances</i> , 2017, 7, 21398-21405.	1.7	19
10	A porphyrin-based optical sensor membrane prepared by electrostatic self-assembled technique for online detection of cadmium(II). <i>Chemosphere</i> , 2020, 238, 124552.	4.2	19
11	Two-dimensional Acetate-based Light Lanthanide Fluoride Nanomaterials (Ln = La, Ce, Pr, and Nd): Morphology, Structure, Growth Mechanism, and Stability. <i>Journal of the American Chemical Society</i> , 2019, 141, 13134-13142.	6.6	17
12	Enhanced hydrolysis of cellulose by catalytic polyethersulfone membranes with straight-through catalytic channels. <i>Bioresource Technology</i> , 2019, 294, 122119.	4.8	17
13	Efficient CO ₂ Separation of Multi-Permeable Mixed Matrix Membranes with a Unique Interfacial Structure Regulated by Mesoporous Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48067-48076.	4.0	17
14	Membrane adsorber with metal organic frameworks for sulphur removal. <i>RSC Advances</i> , 2013, 3, 9889.	1.7	16
15	pH-responsive ethylene vinyl alcohol copolymer membrane based on porphyrin supramolecular self-assembly. <i>RSC Advances</i> , 2016, 6, 10704-10712.	1.7	16
16	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.	1.3	16
17	Mixed matrix membrane contactor containing core-shell hierarchical Cu@4A filler for efficient SO ₂ capture. <i>Journal of Hazardous Materials</i> , 2019, 376, 160-169.	6.5	16
18	Constructing superhydrophobic surface of PES/PES-SiO ₂ mixed matrix membrane contactors for efficient SO ₂ capture. <i>Separation and Purification Technology</i> , 2021, 259, 118222.	3.9	16

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19	Design of isolated iron species for Fenton reactions: lyophilization beats calcination treatment. <i>Chemical Communications</i> , 2015, 51, 16936-16939.	2.2	15
20	Widening CO ₂ -facilitated transport passageways in SPEEK matrix using polymer brushes functionalized double-shelled organic submicrocapsules for efficient gas separation. <i>Journal of Membrane Science</i> , 2017, 525, 330-341.	4.1	15
21	NH ₂ -MIL-125 filled mixed matrix membrane contactor with SO ₂ enrichment for flue gas desulphurization. <i>Chemical Engineering Journal</i> , 2022, 428, 132595.	6.6	15
22	Superhydrophobic Surface-Constructed Membrane Contactor with Hierarchical Lotus-Leaf-Like Interfaces for Efficient SO ₂ Capture. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1827-1837.	4.0	15
23	Electrospinning in membrane contactor: manufacturing Elec-PVDF/SiO ₂ superhydrophobic surface for efficient flue gas desulphurization applications. <i>Green Chemical Engineering</i> , 2021, 2, 111-121.	3.3	14
24	Enhanced phenol degradation at near neutral pH achieved by core-shell hierarchical 4A zeolite/Fe@Cu catalyst. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103933.	3.3	14
25	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO ₂ Separations. <i>Angewandte Chemie</i> , 2017, 129, 14434-14439.	1.6	13
26	pH-Responsive nanofiltration membranes based on porphyrin supramolecular self-assembly by layer-by-layer technique. <i>RSC Advances</i> , 2017, 7, 47397-47406.	1.7	12
27	Smart light-responsive hierarchical metal organic frameworks constructed mixed matrix membranes for efficient gas separation. <i>Green Chemical Engineering</i> , 2022, 3, 71-82.	3.3	12
28	Alkali-responsive membrane prepared by grafting dimethylaminoethyl methacrylate onto ethylene vinyl alcohol copolymer membrane. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	11
29	Design of Lubricant-Infused Surfaces Based on Mussel-Inspired Nanosilica Coatings: Solving Adhesion by Pre-Adhesion. <i>Langmuir</i> , 2021, 37, 10708-10719.	1.6	11
30	Adsorption behavior and self-aggregation of 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin on quaternized polysulfone membrane. <i>Colloid and Polymer Science</i> , 2015, 293, 513-522.	1.0	10
31	Novel affinity membranes with macrocyclic spacer arms synthesized via click chemistry for lysozyme binding. <i>Journal of Hazardous Materials</i> , 2017, 327, 97-107.	6.5	10
32	Metal organic frameworks decorated membrane contactor constructing SO ₂ -philic channels for efficient flue gas desulphurization. <i>Journal of Membrane Science</i> , 2021, 620, 118908.	4.1	10
33	Dual-gating pH-responsive membranes with the heterogeneous structure for whey protein fractionation. <i>Journal of Membrane Science</i> , 2022, 641, 119849.	4.1	10
34	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.	1.7	10
35	In-situ monitoring of polysulfone membrane formation via immersion precipitation using an ultrasonic through-transmission technique. <i>Desalination and Water Treatment</i> , 2011, 32, 214-225.	1.0	9
36	Removal of Heavy Metal in Drinking Water Resource with Cation-Exchange Resins (Type 110-H) Mixed PES Membrane Adsorbents. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2015, 19, .	1.2	9

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37	Manipulation of Grafting Location via Photografting To Fabricate High-Performance Ethylene Vinyl Alcohol Copolymer Membrane for Protein Separation. ACS Omega, 2019, 4, 3514-3526.	1.6	6
38	Large-Scale and Low-Cost Preparation of Ordered Honeycomb-Patterned Film by Solvent Evaporation-Induced Phase Separation Method. Industrial & Engineering Chemistry Research, 2021, 60, 898-907.	1.8	6
39	Pebax-based membrane filled with photo-responsive Azo@NH ₂ -MIL-53 nanoparticles for efficient SO ₂ /N ₂ separation. Separation and Purification Technology, 2022, 296, 121363.	3.9	6
40	Investigation of microfiltration for pretreatment of whey concentration. Desalination and Water Treatment, 2011, 34, 173-178.	1.0	5
41	Hydrophilic and hydrophobic poly(L-lactic acid) films by building porous topological surfaces. Journal of Applied Polymer Science, 2017, 134, .	1.3	4
42	Hectogram-scale green synthesis of hierarchical 4A zeolite@CuO(OH) ₂ (0 $\leq x$ ≤ 1) nanosheet assemblies core-shell nanoarchitectures with Superb Congo red adsorption performance. RSC Advances, 2020, 10, 6405-6413.	1.7	4
43	Isolated iron/polyether sulfone catalytic membranes for rapid phenol removal. Journal of Applied Polymer Science, 2022, 139, 51508.	1.3	3
44	Protein fractionation of pH-responsive brush-modified ethylene vinyl alcohol copolymer membranes. Polymer Engineering and Science, 0, , .	1.5	3
45	Constructing rapid water vapor transport channels within mixed matrix membranes based on two-dimensional mesoporous nanosheets. Communications Chemistry, 2022, 5, .	2.0	1