

Yuzhong Zhang

List of Publications by Year in descending order

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45
papers

892
citations

567281
15
h-index

501196
28
g-index

45
all docs

45
docs citations

45
times ranked

1005
citing authors

#	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.	8.2	175
2	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO ₂ Separations. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14246-14251.	13.8	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.	8.2	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.	8.2	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.	8.2	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.	12.4	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.	8.0	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.	5.5	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.	3.6	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.	8.2	19
11	Two-dimensional Acetate-based Light Lanthanide Fluoride Nanomaterials (F ³⁺ Ln, Ln = La, Ce, Pr, and Nd): Morphology, Structure, Growth Mechanism, and Stability. <i>Journal of the American Chemical Society</i> , 2019, 141, 13134-13142.	13.7	17
12	Enhanced hydrolysis of cellulose by catalytic polyethersulfone membranes with straight-through catalytic channels. <i>Bioresource Technology</i> , 2019, 294, 122119.	9.6	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.	8.0	17
14	Membrane adsorber with metal organic frameworks for sulphur removal. <i>RSC Advances</i> , 2013, 3, 9889.	3.6	16
15	pH-responsive ethylene vinyl alcohol copolymer membrane based on porphyrin supramolecular self-assembly. <i>RSC Advances</i> , 2016, 6, 10704-10712.	3.6	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.	2.6	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.	12.4	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.	7.9	16

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19	Design of isolated iron species for Fenton reactions: lyophilization beats calcination treatment. Chemical Communications, 2015, 51, 16936-16939.	4.1	15
20	Widening CO ₂ -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
21	NH ₂ -MIL-125 filled mixed matrix membrane contactor with SO ₂ enrichment for flue gas desulphurization. Chemical Engineering Journal, 2022, 428, 132595.	12.7	15
22	Superhydrophobic Surface-Constructed Membrane Contactor with Hierarchical Lotus-Leaf-Like Interfaces for Efficient SO ₂ Capture. ACS Applied Materials & Interfaces, 2021, 13, 1827-1837.	8.0	15
23	Electrospinning in membrane contactor: manufacturing Elec-PVDF/SiO ₂ superhydrophobic surface for efficient flue gas desulphurization applications. Green Chemical Engineering, 2021, 2, 111-121.	6.3	14
24	Enhanced phenol degradation at near neutral pH achieved by core-shell hierarchical 4A zeolite/Fe@Cu catalyst. Journal of Environmental Chemical Engineering, 2020, 8, 103933.	6.7	14
25	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO ₂ Separations. Angewandte Chemie, 2017, 129, 14434-14439.	2.0	13
26	pH-Responsive nanofiltration membranes based on porphyrin supramolecular self-assembly by layer-by-layer technique. RSC Advances, 2017, 7, 47397-47406.	3.6	12
27	Smart light-responsive hierarchical metal organic frameworks constructed mixed matrix membranes for efficient gas separation. Green Chemical Engineering, 2022, 3, 71-82.	6.3	12
28	Alkali-responsive membrane prepared by grafting dimethylaminoethyl methacrylate onto ethylene vinyl alcohol copolymer membrane. Journal of Applied Polymer Science, 2015, 132, .	2.6	11
29	Design of Lubricant-Infused Surfaces Based on Mussel-Inspired Nanosilica Coatings: Solving Adhesion by Pre-Adhesion. Langmuir, 2021, 37, 10708-10719.	3.5	11
30	Adsorption behavior and self-aggregation of 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin on quaternized polysulfone membrane. Colloid and Polymer Science, 2015, 293, 513-522.	2.1	10
31	Novel affinity membranes with macrocyclic spacer arms synthesized via click chemistry for lysozyme binding. Journal of Hazardous Materials, 2017, 327, 97-107.	12.4	10
32	Metal organic frameworks decorated membrane contactor constructing SO ₂ -philic channels for efficient flue gas desulphurization. Journal of Membrane Science, 2021, 620, 118908.	8.2	10
33	Dual-gating pH-responsive membranes with the heterogeneous structure for whey protein fractionation. Journal of Membrane Science, 2022, 641, 119849.	8.2	10
34	Light-responsive metal-organic framework sheets constructed smart membranes with tunable transport channels for efficient gas separation. RSC Advances, 2021, 12, 517-527.	3.6	10
35	In-situ monitoring of polysulfone membrane formation via immersion precipitation using an ultrasonic through-transmission technique. Desalination and Water Treatment, 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. Journal of Hazardous, Toxic, and Radioactive Waste, 2015, 19, .	2.0	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.	3.5	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.	3.7	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.	7.9	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, .	2.6	4
42	Hectogram-scale green synthesis of hierarchical 4A zeolite@CuO _x (OH) _(2~2x) (0 < x < 1) nanosheet assemblies core-shell nanoarchitectures with Superb Congo red adsorption performance. RSC Advances, 2020, 10, 6405-6413.	3.6	4
43	Isolated iron/polyether sulfone catalytic membranes for rapid phenol removal. Journal of Applied Polymer Science, 2022, 139, 51508.	2.6	3
44	Protein fractionation of pH-responsive brush-modified ethylene vinyl alcohol copolymer membranes. Polymer Engineering and Science, 0, , .	3.1	3
45	Constructing rapid water vapor transport channels within mixed matrix membranes based on two-dimensional mesoporous nanosheets. Communications Chemistry, 2022, 5, .	4.5	1