Yuzhong Zhang

List of Publications by Year
in descending order

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		566801	500791
45	892	15	28
papers	citations	h-index	g-index

45	45	45	1005
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Isolated iron/polyether sulfone catalytic membranes for rapid phenol removal. Journal of Applied Polymer Science, 2022, 139, 51508.	1.3	3
2	Smart light-responsive hierarchical metal organic frameworks constructed mixed matrix membranes for efficient gas separation. Green Chemical Engineering, 2022, 3, 71-82.	3.3	12
3	Dual-gating pH-responsive membranes with the heterogeneous structure for whey protein fractionation. Journal of Membrane Science, 2022, 641, 119849.	4.1	10
4	NH2-MIL-125 filled mixed matrix membrane contactor with SO2 enrichment for flue gas desulphurization. Chemical Engineering Journal, 2022, 428, 132595.	6.6	15
5	Constructing rapid water vapor transport channels within mixed matrix membranes based on two-dimensional mesoporous nanosheets. Communications Chemistry, 2022, 5, .	2.0	1
6	Pebax-based membrane filled with photo-responsive Azo@NH2-MIL-53 nanoparticles for efficient SO2/N2 separation. Separation and Purification Technology, 2022, 296, 121363.	3.9	6
7	Electrospinning in membrane contactor: manufacturing Elec-PVDF/SiO2 superhydrophobic surface for efficient flue gas desulphurization applications. Green Chemical Engineering, 2021, 2, 111-121.	3.3	14
8	Metal organic frameworks decorated membrane contactor constructing SO2-philic channels for efficient flue gas desulphurization. Journal of Membrane Science, 2021, 620, 118908.	4.1	10
9	Constructing superhydrophobic surface of PES/PES-SiO2 mixed matrix membrane contactors for efficient SO2 capture. Separation and Purification Technology, 2021, 259, 118222.	3.9	16
10	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
11	Design of Lubricant-Infused Surfaces Based on Mussel-Inspired Nanosilica Coatings: Solving Adhesion by Pre-Adhesion. Langmuir, 2021, 37, 10708-10719.	1.6	11
12	Superhydrophobic Surface-Constructed Membrane Contactor with Hierarchical Lotus-Leaf-Like Interfaces for Efficient SO₂ Capture. ACS Applied Materials & Interfaces, 2021, 13, 1827-1837.	4.0	15
13	Light-responsive metalâ€“organic framework sheets constructed smart membranes with tunable transport channels for efficient gas separation. RSC Advances, 2021, 12, 517-527.	1.7	10
14	A porphyrin-based optical sensor membrane prepared by electrostatic self-assembled technique for online detection of cadmium(II). Chemosphere, 2020, 238, 124552.	4.2	19
15	Efficient CO₂ Separation of Multi-Permselective Mixed Matrix Membranes with a Unique Interfacial Structure Regulated by Mesoporous Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 48067-48076.	4.0	17
16	Hectogram-scale green synthesis of hierarchical 4A zeolite@CuO_x(OH)_(2â^'2x) (0 â‰ x < 1) nanosheet assemblies coreâ€“shell nanoarchitectures with Superb Congo red adsorption performance. RSC Advances, 2020, 10, 6405-6413.	1.7	4
17	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.	3.3	14
18	Modification of Supramolecular Membranes with 3D Hydrophilic Slide-Rings for the Improvement of Antifouling Properties and Effective Separation. ACS Applied Materials & Interfaces, 2019, 11, 28527-28537.	4.0	25

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19	Two-dimensional Acetate-based Light Lanthanide Fluoride Nanomaterials (Fâ€“Ln, Ln = La, Ce, Pr, and Nd): Morphology, Structure, Growth Mechanism, and Stability. Journal of the American Chemical Society, 2019, 141, 13134-13142.	6.6	17
20	Enhanced hydrolysis of cellulose by catalytic polyethersulfone membranes with straight-through catalytic channels. Bioresource Technology, 2019, 294, 122119.	4.8	17
21	Interface engineering of mixed matrix membrane via CO2-philic polymer brush functionalized graphene oxide nanosheets for efficient gas separation. Journal of Membrane Science, 2019, 586, 23-33.	4.1	42
22	Mixed matrix membrane contactor containing core-shell hierarchical Cu@4A filler for efficient SO2 capture. Journal of Hazardous Materials, 2019, 376, 160-169.	6.5	16
23	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
24	Mixed matrix membranes comprising aminosilane-functionalized graphene oxide for enhanced CO2 separation. Journal of Membrane Science, 2019, 570-571, 343-354.	4.1	175
25	Similarly sized protein separation of chargeâ€selective ethyleneâ€vinyl alcohol copolymer membrane by grafting dimethylaminoethyl methacrylate. Journal of Applied Polymer Science, 2018, 135, 46374.	1.3	16
26	Protein adsorption and desorption behavior of a pH-responsive membrane based on ethylene vinyl alcohol copolymer. RSC Advances, 2017, 7, 21398-21405.	1.7	19
27	Widening CO2-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.	4.1	15
28	Hydrophilic and hydrophobic poly(<scp>l</scp>â€lactic acid) films by building porous topological surfaces. Journal of Applied Polymer Science, 2017, 134, .	1.3	4
29	Novel affinity membranes with macrocyclic spacer arms synthesized via click chemistry for lysozyme binding. Journal of Hazardous Materials, 2017, 327, 97-107.	6.5	10
30	pH-Responsive nanofiltration membranes based on porphyrin supramolecular self-assembly by layer-by-layer technique. RSC Advances, 2017, 7, 47397-47406.	1.7	12
31	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO₂ Separations. Angewandte Chemie - International Edition, 2017, 56, 14246-14251.	7.2	121
32	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO₂ Separations. Angewandte Chemie, 2017, 129, 14434-14439.	1.6	13
33	Tuning the performance of CO2 separation membranes by incorporating multifunctional modified silica microspheres into polymer matrix. Journal of Membrane Science, 2016, 514, 73-85.	4.1	35
34	Mixed matrix membranes fabricated by a facile in situ biomimetic mineralization approach for efficient CO2 separation. Journal of Membrane Science, 2016, 508, 84-93.	4.1	27
35	pH-responsive ethylene vinyl alcohol copolymer membrane based on porphyrin supramolecular self-assembly. RSC Advances, 2016, 6, 10704-10712.	1.7	16
36	Porphyrin-functionalized porous polysulfone membrane towards an optical sensor membrane for sorption and detection of cadmium(II). Journal of Hazardous Materials, 2016, 301, 233-241.	6.5	26

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37	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, .	1.2	9
38	Alkaliâ€responsive membrane prepared by grafting dimethylaminoethyl methacrylate onto ethylene vinyl alcohol copolymer membrane. Journal of Applied Polymer Science, 2015, 132, .	1.3	11
39	Aggregation and supramolecular chirality of 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin on an achiral poly(2-(dimethylamino)ethyl methylacrylate)-grafted ethylene-vinyl alcohol membrane. Journal of Materials Chemistry C, 2015, 3, 3650-3658.	2.7	19
40	Design of isolated iron species for Fenton reactions: lyophilization beats calcination treatment. Chemical Communications, 2015, 51, 16936-16939.	2.2	15
41	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.	1.0	10
42	Membrane adsorber with metal organic frameworks for sulphur removal. RSC Advances, 2013, 3, 9889.	1.7	16
43	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
44	Investigation of microfiltration for pretreatment of whey concentration. Desalination and Water Treatment, 2011, 34, 173-178.	1.0	5
45	Protein fractionation of pHâ€responsive brushâ€modified ethylene vinyl alcohol copolymer membranes. Polymer Engineering and Science, 0, , .	1.5	3