Zhaoxiang Zhong

List of Publications by Year
in descending order

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87 papers	2,903 citations	159585 30 h-index	189892 50 g-index
87 all docs	87 docs citations	87 times ranked	2839 citing authors

#	Article	IF	Citations
1	Progress and perspectives in PTFE membrane: Preparation, modification, and applications. Journal of Membrane Science, 2018, 549, 332-349.	8.2	249
2	Oriented two-dimensional zeolitic imidazolate framework-L membranes and their gas permeation properties. Journal of Materials Chemistry A, 2015, 3, 15715-15722.	10.3	149
3	Performance of ceramic nanofiltration membrane for desalination of dye solutions containing NaCl and Na2SO4. Desalination, 2017, 404, 102-111.	8.2	145
4	Unusual Air Filters with Ultrahigh Efficiency and Antibacterial Functionality Enabled by ZnO Nanorods. ACS Applied Materials & Interfaces, 2015, 7, 21538-21544.	8.0	121
5	Tight Ultrafiltration Ceramic Membrane for Separation of Dyes and Mixed Salts (both) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5 Chemistry Research, 2017, 56, 7070-7079.	3.7	119
6	ZIF-8@SiO2 composite nanofiber membrane with bioinspired spider web-like structure for efficient air pollution control. Journal of Membrane Science, 2019, 581, 252-261.	8.2	96
7	High gas permeability of SiC porous ceramics reinforced by mullite fibers. Journal of the European Ceramic Society, 2016, 36, 3909-3917.	5.7	92
8	Lower-temperature preparation of SiC ceramic membrane using zeolite residue as sintering aid for oil-in-water separation. Journal of Membrane Science, 2020, 610, 118238.	8.2	74
9	Aqueous solution synthesis of ZIF-8 films on a porous nylon substrate by contra-diffusion method. Microporous and Mesoporous Materials, 2013, 179, 10-16.	4.4	71
10	Preparation and Characterization of SiC Whisker-Reinforced SiC Porous Ceramics for Hot Gas Filtration. Industrial & Engineering Chemistry Research, 2015, 54, 226-232.	3.7	65
11	Preparation of non-oxide SiC membrane for gas purification by spray coating. Journal of Membrane Science, 2017, 540, 381-390.	8.2	61
12	Zeolitic-imidazolate-framework filled hierarchical porous nanofiber membrane for air cleaning. Journal of Membrane Science, 2020, 594, 117467.	8.2	61
13	Fouling and regeneration of ceramic membranes used in recovering titanium silicalite-1 catalysts. Journal of Membrane Science, 2007, 301, 67-75.	8.2	57
14	Perfluorinated superhydrophobic and oleophobic SiO2@PTFE nanofiber membrane with hierarchical nanostructures for oily fume purification. Journal of Membrane Science, 2020, 594, 117473.	8.2	57
15	ALD-seeded hydrothermally-grown Ag/ZnO nanorod PTFE membrane as efficient indoor air filter. Journal of Membrane Science, 2017, 531, 86-93.	8.2	51
16	Carbon composite membrane derived from a two-dimensional zeolitic imidazolate framework and its gas separation properties. Carbon, 2014, 72, 242-249.	10.3	47
17	Low-temperature sintering of porous silicon carbide ceramic support with SDBS as sintering aid. Ceramics International, 2017, 43, 3377-3383.	4.8	47
18	Amphiphobic Polytetrafluoroethylene Membranes for Efficient Organic Aerosol Removal. ACS Applied Materials & Interfaces, 2016, 8, 8773-8781.	8.0	46

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19	Preparation of highly stable porous SiC membrane supports with enhanced air purification performance by recycling NaA zeolite residue. Journal of Membrane Science, 2017, 541, 500-509.	8.2	41
20	Graphene oxide functionalized polyvinylidene fluoride nanofibrous membranes for efficient particulate matter removal. Journal of Membrane Science, 2021, 635, 119463.	8.2	41
21	Coating of ZnO nanoparticles onto the inner pore channel surface of SiC foam to fabricate a novel antibacterial air filter material. Ceramics International, 2015, 41, 7080-7090.	4.8	39
22	Dye adsorption on zinc oxide nanoparticulates atomicâ€layerâ€deposited on polytetrafluoroethylene membranes. AICHE Journal, 2016, 62, 3982-3991.	3.6	38
23	Ceramic membrane fouling and cleaning in ultrafiltration of desulfurization wastewater. Desalination, 2013, 319, 92-98.	8.2	37
24	High-efficiency, Synergistic ZnO-Coated SiC Photocatalytic Filter with Antibacterial Properties. Industrial & Engineering Chemistry Research, 2016, 55, 6661-6670.	3.7	37
25	Multifunctional metal organic framework and carbon nanotube-modified filter for combined ultrafine dust capture and SO₂ dynamic adsorption. Environmental Science: Nano, 2018, 5, 3023-3031.	4.3	37
26	Porous TiO2 aerogel-modified SiC ceramic membrane supported MnOx catalyst for simultaneous removal of NO and dust. Journal of Membrane Science, 2020, 611, 118366.	8.2	37
27	Porous metalâ€“organic framework-based filters: Synthesis methods and applications for environmental remediation. Chemical Engineering Journal, 2022, 430, 133160.	12.7	36
28	Silicon carbide microfiltration membranes for oil-water separation: Pore structure-dependent wettability matters. Water Research, 2022, 216, 118270.	11.3	36
29	Corrosion behaviors of porous reaction-bonded silicon carbide ceramics incorporated with CaO. Ceramics International, 2018, 44, 12225-12232.	4.8	34
30	Atomic layer deposition for membrane modification, functionalization and preparation: A review. Journal of Membrane Science, 2022, 658, 120740.	8.2	34
31	Multifunctional hybrid porous filters with hierarchical structures for simultaneous removal of indoor VOCs, dusts and microorganisms. Nanoscale, 2017, 9, 5433-5444.	5.6	31
32	Multifunctional ZIF-67@SiO₂ Membrane for High Efficiency Removal of Particulate Matter and Toxic Gases. Industrial & Engineering Chemistry Research, 2020, 59, 17876-17884.	3.7	30
33	A promising carbon fiber-based photocatalyst with hierarchical structure for dye degradation. RSC Advances, 2017, 7, 22234-22242.	3.6	29
34	SiC@TiO₂/Pt Catalytic Membrane for Collaborative Removal of VOCs and Nanoparticles. Industrial & Engineering Chemistry Research, 2018, 57, 10564-10571.	3.7	29
35	Novel Synthesis of a High-Performance Pt/ZnO/SiC Filter for the Oxidation of Toluene. Industrial & Engineering Chemistry Research, 2017, 56, 13857-13865.	3.7	28
36	In situ growth of two-dimensional ZIF-L nanoflakes on ceramic membrane for efficient removal of iodine. Journal of Membrane Science, 2021, 619, 118782.	8.2	28

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37	Porphyrin-Functionalized Hierarchical Porous Silica Nanofiber Membrane for Rapid HCl Gas Detection. Industrial & Engineering Chemistry Research, 2018, 57, 11668-11674.	3.7	27
38	Cleaning ceramic membranes used in treating desizing wastewater with a complex-surfactant SDBS-assisted method. Desalination, 2015, 365, 25-35.	8.2	26
39	A multifunctional multi-walled carbon nanotubes/ceramic membrane composite filter for air purification. RSC Advances, 2015, 5, 91951-91959.	3.6	26
40	Low-temperature sintering of a porous SiC ceramic filter using water glass and zirconia as sintering aids. Ceramics International, 2021, 47, 26125-26133.	4.8	26
41	Manganese dioxide-filled hierarchical porous nanofiber membrane for indoor air cleaning at room temperature. Journal of Membrane Science, 2020, 605, 118094.	8.2	25
42	Direct silanization of polyurethane foams for efficient selective absorption of oil from water. AICHE Journal, 2017, 63, 2232-2240.	3.6	23
43	Nanoarchitectonics for Electrospun Membranes with Asymmetric Wettability. ACS Applied Materials & Interfaces, 2021, 13, 60763-60788.	8.0	23
44	Al-DTPA microfiber assisted formwork construction technology for high-performance SiC membrane preparation. Journal of Membrane Science, 2020, 594, 117464.	8.2	22
45	Meltblown fabric vs nanofiber membrane, which is better for fabricating personal protective equipments. Chinese Journal of Chemical Engineering, 2021, 36, 1-9.	3.5	21
46	One-pot in situ synthesis of Cu-SAPO-34/SiC catalytic membrane with enhanced binding strength and chemical resistance for combined removal of NO and dust. Chemical Engineering Journal, 2021, 420, 130425.	12.7	21
47	Integrated Membrane Process for the Treatment of Desulfurization Wastewater. Industrial & Engineering Chemistry Research, 2010, 49, 3337-3341.	3.7	18
48	Controlled synthesis of Cu2O microcrystals in membrane dispersion reactor and comparative activity in heterogeneous Fenton application. Powder Technology, 2019, 343, 847-854.	4.2	18
49	A novel ultralight 3D-Mn(OH)4 porous material for heavy metal ions removal from water. Separation and Purification Technology, 2020, 238, 116426.	7.9	18
50	Hydroxyl radical intensified Cu2O NPs/H2O2 process in ceramic membrane reactor for degradation on DMAc wastewater from polymeric membrane manufacturer. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	6.0	18
51	Low-temperature sintering of silicon carbide membrane supports from disks to single- and 19-channel tubes. Journal of the European Ceramic Society, 2022, 42, 2597-2608.	5.7	18
52	Removal of Organic Aerosols from Furnace Flue Gas by Ceramic Filters. Industrial & Engineering Chemistry Research, 2013, 52, 5455-5461.	3.7	17
53	Pore structure and surface property design of silicon carbide membrane for water-in-oil emulsification. Journal of Membrane Science, 2022, 648, 120347.	8.2	17
54	Adding Microsized Silica Particles to the Catalysis/Ultrafiltration System: Catalyst Dissolution Inhibition and Flux Enhancement. Industrial & Engineering Chemistry Research, 2009, 48, 4933-4938.	3.7	16

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55	One-Step Synthesis of Carbon-Hybridized ZnO on Polymeric Foams by Atomic Layer Deposition for Efficient Absorption of Oils from Water. Industrial & Engineering Chemistry Research, 2018, 57, 1269-1276.	3.7	16
56	Fabrication of high performance macroporous tubular silicon carbide gas filters by extrusion method. Ceramics International, 2018, 44, 17792-17799.	4.8	16
57	Amphiphobic PFTMS@nano-SiO₂/ePTFE Membrane for Oil Aerosol Removal. Industrial & Engineering Chemistry Research, 2018, 57, 10431-10438.	3.7	16
58	Recent developments on catalytic membrane for gas cleaning. Chinese Journal of Chemical Engineering, 2019, 27, 1391-1402.	3.5	16
59	Atomic Layer Deposition on Block Copolymer Membranes with Gyroidal Nanopores Toward Periodically Nanostructured Vapor Sensors: Nanotubes versus Nanorods. Advanced Materials Interfaces, 2016, 3, 1600017.	3.7	15
60	Steric Configuration-Controllable Carbon Nanotubes-Integrated SiC Membrane for Ultrafine Particles Filtration. Industrial & Engineering Chemistry Research, 2020, 59, 19680-19688.	3.7	15
61	A novel semi-dry method for rapidly synthesis ZnO nanorods on SiO2@PTFE nanofiber membrane for efficient air cleaning. Journal of Membrane Science, 2022, 645, 120206.	8.2	14
62	Integrated membrane process for wastewater treatment from production of instant tea powders. Desalination, 2015, 355, 147-154.	8.2	13
63	Engineering green and high-flux poly(vinylidene fluoride) membranes for membrane distillation via a facile co-casting process. Journal of Membrane Science, 2022, 655, 120577.	8.2	13
64	Hydrophilic ePTFE Membranes with Highly Enhanced Water Permeability and Improved Efficiency for Multipollutant Control. Industrial & Engineering Chemistry Research, 2016, 55, 2806-2812.	3.7	12
65	Ultralight 3D-Î³-MnOOH porous materials fabricated by hydrothermal treatment and freeze-drying. Science China Materials, 2019, 62, 527-535.	6.3	12
66	A bifunctional MnO @PTFE catalytic membrane for efficient low temperature NO -SCR and dust removal. Chinese Journal of Chemical Engineering, 2020, 28, 1260-1267.	3.5	12
67	Hydrothermal Synthesis of a Pt/SAPO-34@SiC Catalytic Membrane for the Simultaneous Removal of NO and Particulate Matter. Industrial & Engineering Chemistry Research, 2020, 59, 4302-4312.	3.7	11
68	Multifunctional wool fiber treated with É›-polylysine. Korean Journal of Chemical Engineering, 2012, 29, 507-512.	2.7	10
69	River Water Purification via a Coagulation-Porous Ceramic Membrane Hybrid Process. Chinese Journal of Chemical Engineering, 2014, 22, 113-119.	3.5	10
70	Flowerlike FeO_Xâ€“MnO_X Amorphous Oxides Anchored on PTFE/PPS Membrane for Efficient Dust Filtration and Low-Temperature No Reduction. Industrial & Engineering Chemistry Research, 2022, 61, 5816-5824.	3.7	10
71	Effect of Gas Distributor on Hydrodynamics and the Rochow Reaction in a Fluidized Bed Membrane Reactor. Industrial & Engineering Chemistry Research, 2016, 55, 10600-10608.	3.7	8
72	A strategy for constructing highly efficient Co3O4-C@SiO2 nanofibers catalytic membrane for NH3-SCR of NO and dust filtration. Separation and Purification Technology, 2022, 292, 120997.	7.9	8

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73	Ceramic micro/ultraâ€filtration of lowâ€concentration ultrafine sulfur in desulfurization wastewater. Journal of Chemical Technology and Biotechnology, 2016, 91, 3088-3095.	3.2	7
74	Multiscale super-amphiphobic ceramic membrane for oil aerosol removal. Journal of Membrane Science, 2022, 642, 119996.	8.2	7
75	Catalytic performance of hybrid Pt@ZnO NRs on carbon fibers for methanol electro-oxidation. Chinese Journal of Chemical Engineering, 2017, 25, 1871-1876.	3.5	6
76	Exploring the Key Factors in Dusty Gas Filtration: Experimental and Modeling Studies. Industrial & Engineering Chemistry Research, 2019, 58, 19633-19641.	3.7	6
77	A breathable PTFE membrane for enhanced moxibustion process and occupational health protection. Journal of Membrane Science, 2022, 655, 120579.	8.2	6
78	Controllable preparation of ZnO porous flower through a membrane dispersion reactor and their photocatalytic properties. Chinese Journal of Chemical Engineering, 2018, 26, 2192-2198.	3.5	5
79	Synthesis of CuxCo3â^'xO4 nanocatalyst for degradation of nitrogenous organic wastewater in Fenton-like membrane reactor. Applied Water Science, 2022, 12, 1.	5.6	5
80	Prediction and Optimization of Interlayer-Interface Resistance for Expanded Polytetrafluoroethylene-Laminated Polyphenylene Sulfide Composite Membranes. Industrial & Engineering Chemistry Research, 2022, 61, 6662-6672.	3.7	5
81	Spatially confined growth of carbon nanotubes in the pore channels of microporous ceramic supports with improved filtration efficiency. Nanoscale, 2022, 14, 10091-10100.	5.6	5
82	Purifying condensed water with ceramic ultrafiltration membranes. Journal of Chemical Technology and Biotechnology, 2015, 90, 2092-2099.	3.2	4
83	Gas exfoliation mechanisms of graphitic carbon nitride into few-layered nanosheets. Journal of Porous Materials, 0, , 1.	2.6	4
84	Micro-Octahedron Cu₂O-Based Photocatalysis-Fenton for Organic Pollutant Degradation: Proposed Coupling Mechanism in a Membrane Reactor. Industrial & Engineering Chemistry Research, 2022, 61, 7255-7265.	3.7	4
85	Separation of Sulfoether Compounds in Garlic Oil by Integrated Membrane Technologies. Journal of Food Process Engineering, 2016, 39, 591-600.	2.9	2
86	A new comprehensive evaluation indicator of adsorbent for gas separation. Environmental Technology (United Kingdom), 2020, , 1-10.	2.2	0
87	Functionalized membranes for multipollutants bearing air treatment. , 2022, , 167-200.		0