

# Zhaoxiang Zhong

## List of Publications by Year in descending order

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87  
papers

2,903  
citations

182225

30  
h-index

214428

50  
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87  
all docs

87  
docs citations

87  
times ranked

3229  
citing authors

#	ARTICLE	IF	CITATIONS
1	Porous metal-organic framework-based filters: Synthesis methods and applications for environmental remediation. <i>Chemical Engineering Journal</i> , 2022, 430, 133160.	6.6	36
2	Multiscale super-amphiphobic ceramic membrane for oil aerosol removal. <i>Journal of Membrane Science</i> , 2022, 642, 119996.	4.1	7
3	A novel semi-dry method for rapidly synthesis ZnO nanorods on SiO <sub>2</sub> @PTFE nanofiber membrane for efficient air cleaning. <i>Journal of Membrane Science</i> , 2022, 645, 120206.	4.1	14
4	Low-temperature sintering of silicon carbide membrane supports from disks to single- and 19-channel tubes. <i>Journal of the European Ceramic Society</i> , 2022, 42, 2597-2608.	2.8	18
5	Pore structure and surface property design of silicon carbide membrane for water-in-oil emulsification. <i>Journal of Membrane Science</i> , 2022, 648, 120347.	4.1	17
6	Synthesis of Cu <sub>x</sub> Co <sub>3-x</sub> O <sub>4</sub> nanocatalyst for degradation of nitrogenous organic wastewater in Fenton-like membrane reactor. <i>Applied Water Science</i> , 2022, 12, 1.	2.8	5
7	Silicon carbide microfiltration membranes for oil-water separation: Pore structure-dependent wettability matters. <i>Water Research</i> , 2022, 216, 118270.	5.3	36
8	A strategy for constructing highly efficient Co <sub>3</sub> O <sub>4</sub> -C@SiO <sub>2</sub> nanofibers catalytic membrane for NH <sub>3</sub> -SCR of NO and dust filtration. <i>Separation and Purification Technology</i> , 2022, 292, 120997.	3.9	8
9	Flowerlike FeO <sub>x</sub> -MnO <sub>x</sub> Amorphous Oxides Anchored on PTFE/PPS Membrane for Efficient Dust Filtration and Low-Temperature NO Reduction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 5816-5824.	1.8	10
10	Prediction and Optimization of Interlayer-Interface Resistance for Expanded Polytetrafluoroethylene-Laminated Polyphenylene Sulfide Composite Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 6662-6672.	1.8	5
11	Engineering green and high-flux poly(vinylidene fluoride) membranes for membrane distillation via a facile co-casting process. <i>Journal of Membrane Science</i> , 2022, 655, 120577.	4.1	13
12	A breathable PTFE membrane for enhanced moxibustion process and occupational health protection. <i>Journal of Membrane Science</i> , 2022, 655, 120579.	4.1	6
13	Micro-Octahedron Cu <sub>2</sub> O-Based Photocatalysis-Fenton for Organic Pollutant Degradation: Proposed Coupling Mechanism in a Membrane Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 7255-7265.	1.8	4
14	Spatially confined growth of carbon nanotubes in the pore channels of microporous ceramic supports with improved filtration efficiency. <i>Nanoscale</i> , 2022, 14, 10091-10100.	2.8	5
15	Atomic layer deposition for membrane modification, functionalization and preparation: A review. <i>Journal of Membrane Science</i> , 2022, 658, 120740.	4.1	34
16	Functionalized membranes for multipollutants bearing air treatment. , 2022, , 167-200.		0
17	Meltblown fabric vs nanofiber membrane, which is better for fabricating personal protective equipments. <i>Chinese Journal of Chemical Engineering</i> , 2021, 36, 1-9.	1.7	21
18	In situ growth of two-dimensional ZIF-L nanoflakes on ceramic membrane for efficient removal of iodine. <i>Journal of Membrane Science</i> , 2021, 619, 118782.	4.1	28

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19	Low-temperature sintering of a porous SiC ceramic filter using water glass and zirconia as sintering aids. <i>Ceramics International</i> , 2021, 47, 26125-26133.	2.3	26
20	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. <i>Chemical Engineering Journal</i> , 2021, 420, 130425.	6.6	21
21	Graphene oxide functionalized polyvinylidene fluoride nanofibrous membranes for efficient particulate matter removal. <i>Journal of Membrane Science</i> , 2021, 635, 119463.	4.1	41
22	Nanoarchitectonics for Electrospun Membranes with Asymmetric Wettability. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 60763-60788.	4.0	23
23	Perfluorinated superhydrophobic and oleophobic SiO <sub>2</sub> @PTFE nanofiber membrane with hierarchical nanostructures for oily fume purification. <i>Journal of Membrane Science</i> , 2020, 594, 117473.	4.1	57
24	Zeolitic-imidazolate-framework filled hierarchical porous nanofiber membrane for air cleaning. <i>Journal of Membrane Science</i> , 2020, 594, 117467.	4.1	61
25	Al-DTPA microfiber assisted formwork construction technology for high-performance SiC membrane preparation. <i>Journal of Membrane Science</i> , 2020, 594, 117464.	4.1	22
26	A novel ultralight 3D-Mn(OH) <sub>4</sub> porous material for heavy metal ions removal from water. <i>Separation and Purification Technology</i> , 2020, 238, 116426.	3.9	18
27	Steric Configuration-Controllable Carbon Nanotubes-Integrated SiC Membrane for Ultrafine Particles Filtration. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 19680-19688.	1.8	15
28	Multifunctional ZIF-67@SiO <sub>2</sub> Membrane for High Efficiency Removal of Particulate Matter and Toxic Gases. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 17876-17884.	1.8	30
29	A new comprehensive evaluation indicator of adsorbent for gas separation. <i>Environmental Technology (United Kingdom)</i> , 2020, , 1-10.	1.2	0
30	Lower-temperature preparation of SiC ceramic membrane using zeolite residue as sintering aid for oil-in-water separation. <i>Journal of Membrane Science</i> , 2020, 610, 118238.	4.1	74
31	Hydroxyl radical intensified Cu <sub>2</sub> O NPs/H <sub>2</sub> O <sub>2</sub> process in ceramic membrane reactor for degradation on DMAc wastewater from polymeric membrane manufacturer. <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1.	3.3	18
32	Porous TiO <sub>2</sub> aerogel-modified SiC ceramic membrane supported MnO <sub>x</sub> catalyst for simultaneous removal of NO and dust. <i>Journal of Membrane Science</i> , 2020, 611, 118366.	4.1	37
33	Hydrothermal Synthesis of a Pt/SAPO-34@SiC Catalytic Membrane for the Simultaneous Removal of NO and Particulate Matter. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 4302-4312.	1.8	11
34	A bifunctional MnO @PTFE catalytic membrane for efficient low temperature NO -SCR and dust removal. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 1260-1267.	1.7	12
35	Manganese dioxide-filled hierarchical porous nanofiber membrane for indoor air cleaning at room temperature. <i>Journal of Membrane Science</i> , 2020, 605, 118094.	4.1	25
36	Exploring the Key Factors in Dusty Gas Filtration: Experimental and Modeling Studies. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 19633-19641.	1.8	6

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37	ZIF-8@SiO <sub>2</sub> composite nanofiber membrane with bioinspired spider web-like structure for efficient air pollution control. <i>Journal of Membrane Science</i> , 2019, 581, 252-261.	4.1	96
38	Recent developments on catalytic membrane for gas cleaning. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1391-1402.	1.7	16
39	Controlled synthesis of Cu <sub>2</sub> O microcrystals in membrane dispersion reactor and comparative activity in heterogeneous Fenton application. <i>Powder Technology</i> , 2019, 343, 847-854.	2.1	18
40	Ultralight 3D- $\beta$ -MnOOH porous materials fabricated by hydrothermal treatment and freeze-drying. <i>Science China Materials</i> , 2019, 62, 527-535.	3.5	12
41	Corrosion behaviors of porous reaction-bonded silicon carbide ceramics incorporated with CaO. <i>Ceramics International</i> , 2018, 44, 12225-12232.	2.3	34
42	One-Step Synthesis of Carbon-Hybridized ZnO on Polymeric Foams by Atomic Layer Deposition for Efficient Absorption of Oils from Water. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 1269-1276.	1.8	16
43	Progress and perspectives in PTFE membrane: Preparation, modification, and applications. <i>Journal of Membrane Science</i> , 2018, 549, 332-349.	4.1	249
44	Multifunctional metal organic framework and carbon nanotube-modified filter for combined ultrafine dust capture and SO <sub>2</sub> dynamic adsorption. <i>Environmental Science: Nano</i> , 2018, 5, 3023-3031.	2.2	37
45	Fabrication of high performance macroporous tubular silicon carbide gas filters by extrusion method. <i>Ceramics International</i> , 2018, 44, 17792-17799.	2.3	16
46	SiC@TiO <sub>2</sub> /Pt Catalytic Membrane for Collaborative Removal of VOCs and Nanoparticles. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 10564-10571.	1.8	29
47	Controllable preparation of ZnO porous flower through a membrane dispersion reactor and their photocatalytic properties. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 2192-2198.	1.7	5
48	Amphiphobic PFTMS@nano-SiO <sub>2</sub> /ePTFE Membrane for Oil Aerosol Removal. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 10431-10438.	1.8	16
49	Porphyrim-Functionalized Hierarchical Porous Silica Nanofiber Membrane for Rapid HCl Gas Detection. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 11668-11674.	1.8	27
50	ALD-seeded hydrothermally-grown Ag/ZnO nanorod PTFE membrane as efficient indoor air filter. <i>Journal of Membrane Science</i> , 2017, 531, 86-93.	4.1	51
51	Multifunctional hybrid porous filters with hierarchical structures for simultaneous removal of indoor VOCs, dusts and microorganisms. <i>Nanoscale</i> , 2017, 9, 5433-5444.	2.8	31
52	A promising carbon fiber-based photocatalyst with hierarchical structure for dye degradation. <i>RSC Advances</i> , 2017, 7, 22234-22242.	1.7	29
53	Tight Ultrafiltration Ceramic Membrane for Separation of Dyes and Mixed Salts (both) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107</i> <i>Chemistry Research</i> , 2017, 56, 7070-7079.	1.8	119
54	Low-temperature sintering of porous silicon carbide ceramic support with SDBS as sintering aid. <i>Ceramics International</i> , 2017, 43, 3377-3383.	2.3	47

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55	Direct silanization of polyurethane foams for efficient selective absorption of oil from water. <i>AICHE Journal</i> , 2017, 63, 2232-2240.	1.8	23
56	Novel Synthesis of a High-Performance Pt/ZnO/SiC Filter for the Oxidation of Toluene. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 13857-13865.	1.8	28
57	Catalytic performance of hybrid Pt@ZnO NRs on carbon fibers for methanol electro-oxidation. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 1871-1876.	1.7	6
58	Preparation of highly stable porous SiC membrane supports with enhanced air purification performance by recycling NaA zeolite residue. <i>Journal of Membrane Science</i> , 2017, 541, 500-509.	4.1	41
59	Preparation of non-oxide SiC membrane for gas purification by spray coating. <i>Journal of Membrane Science</i> , 2017, 540, 381-390.	4.1	61
60	Performance of ceramic nanofiltration membrane for desalination of dye solutions containing NaCl and Na <sub>2</sub> SO <sub>4</sub> . <i>Desalination</i> , 2017, 404, 102-111.	4.0	145
61	High gas permeability of SiC porous ceramics reinforced by mullite fibers. <i>Journal of the European Ceramic Society</i> , 2016, 36, 3909-3917.	2.8	92
62	Separation of Sulfoether Compounds in Garlic Oil by Integrated Membrane Technologies. <i>Journal of Food Process Engineering</i> , 2016, 39, 591-600.	1.5	2
63	Atomic Layer Deposition on Block Copolymer Membranes with Gyroidal Nanopores Toward Periodically Nanostructured Vapor Sensors: Nanotubes versus Nanorods. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600017.	1.9	15
64	Dye adsorption on zinc oxide nanoparticulates atomic layer deposited on polytetrafluoroethylene membranes. <i>AICHE Journal</i> , 2016, 62, 3982-3991.	1.8	38
65	Amphiphobic Polytetrafluoroethylene Membranes for Efficient Organic Aerosol Removal. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8773-8781.	4.0	46
66	High-efficiency, Synergistic ZnO-Coated SiC Photocatalytic Filter with Antibacterial Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 6661-6670.	1.8	37
67	Ceramic micro/ultrafiltration of low concentration ultrafine sulfur in desulfurization wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 3088-3095.	1.6	7
68	Effect of Gas Distributor on Hydrodynamics and the Rochow Reaction in a Fluidized Bed Membrane Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 10600-10608.	1.8	8
69	Hydrophilic ePTFE Membranes with Highly Enhanced Water Permeability and Improved Efficiency for Multipollutant Control. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 2806-2812.	1.8	12
70	Purifying condensed water with ceramic ultrafiltration membranes. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 2092-2099.	1.6	4
71	Cleaning ceramic membranes used in treating desizing wastewater with a complex-surfactant SDBS-assisted method. <i>Desalination</i> , 2015, 365, 25-35.	4.0	26
72	Coating of ZnO nanoparticles onto the inner pore channel surface of SiC foam to fabricate a novel antibacterial air filter material. <i>Ceramics International</i> , 2015, 41, 7080-7090.	2.3	39

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73	Oriented two-dimensional zeolitic imidazolate framework-L membranes and their gas permeation properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15715-15722.	5.2	149
74	A multifunctional multi-walled carbon nanotubes/ceramic membrane composite filter for air purification. <i>RSC Advances</i> , 2015, 5, 91951-91959.	1.7	26
75	Unusual Air Filters with Ultrahigh Efficiency and Antibacterial Functionality Enabled by ZnO Nanorods. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21538-21544.	4.0	121
76	Preparation and Characterization of SiC Whisker-Reinforced SiC Porous Ceramics for Hot Gas Filtration. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 226-232.	1.8	65
77	Integrated membrane process for wastewater treatment from production of instant tea powders. <i>Desalination</i> , 2015, 355, 147-154.	4.0	13
78	Carbon composite membrane derived from a two-dimensional zeolitic imidazolate framework and its gas separation properties. <i>Carbon</i> , 2014, 72, 242-249.	5.4	47
79	River Water Purification via a Coagulation-Porous Ceramic Membrane Hybrid Process. <i>Chinese Journal of Chemical Engineering</i> , 2014, 22, 113-119.	1.7	10
80	Aqueous solution synthesis of ZIF-8 films on a porous nylon substrate by contra-diffusion method. <i>Microporous and Mesoporous Materials</i> , 2013, 179, 10-16.	2.2	71
81	Ceramic membrane fouling and cleaning in ultrafiltration of desulfurization wastewater. <i>Desalination</i> , 2013, 319, 92-98.	4.0	37
82	Removal of Organic Aerosols from Furnace Flue Gas by Ceramic Filters. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 5455-5461.	1.8	17
83	Multifunctional wool fiber treated with $\epsilon$ -polylysine. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 507-512.	1.2	10
84	Integrated Membrane Process for the Treatment of Desulfurization Wastewater. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 3337-3341.	1.8	18
85	Adding Microsized Silica Particles to the Catalysis/Ultrafiltration System: Catalyst Dissolution Inhibition and Flux Enhancement. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 4933-4938.	1.8	16
86	Fouling and regeneration of ceramic membranes used in recovering titanium silicalite-1 catalysts. <i>Journal of Membrane Science</i> , 2007, 301, 67-75.	4.1	57
87	Gas exfoliation mechanisms of graphitic carbon nitride into few-layered nanosheets. <i>Journal of Porous Materials</i> , 0, , 1.	1.3	4