

Zhentao Wu

List of Publications by Year in descending order

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70
papers

3,090
citations

159525

30
h-index

161767

54
g-index

71
all docs

71
docs citations

71
times ranked

3138
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Water-Stable Zirconium Metal-Organic Framework UiO-66 Membranes Supported on Alumina Hollow Fibers for Desalination. <i>Journal of the American Chemical Society</i> , 2015, 137, 6999-7002.	6.6	591
2	Manganese oxide integrated catalytic ceramic membrane for degradation of organic pollutants using sulfate radicals. <i>Water Research</i> , 2019, 167, 115110.	5.3	165
3	Carbon dioxide stripping in ceramic hollow fibre membrane contactors. <i>Chemical Engineering Science</i> , 2009, 64, 1-8.	1.9	128
4	Alkanes Phase Change Materials and Their Microencapsulation for Thermal Energy Storage: A Critical Review. <i>Energy & Fuels</i> , 2018, 32, 7262-7293.	2.5	123
5	High-Performance, Anode-Supported, Microtubular SOFC Prepared from Single-Step-Fabricated, Dual-Layer Hollow Fibers. <i>Advanced Materials</i> , 2011, 23, 2480-2483.	11.1	118
6	Single-step fabrication and characterisations of electrolyte/anode dual-layer hollow fibres for micro-tubular solid oxide fuel cells. <i>Journal of Membrane Science</i> , 2010, 351, 196-204.	4.1	86
7	A morphological study of ceramic hollow fibre membranes: A perspective on multifunctional catalytic membrane reactors. <i>Catalysis Today</i> , 2010, 156, 306-315.	2.2	83
8	Morphological studies of macrostructure of Ni-CGO anode hollow fibres for intermediate temperature solid oxide fuel cells. <i>Journal of Membrane Science</i> , 2010, 360, 410-417.	4.1	73
9	Fabrication of ultrathin La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ hollow fibre membranes for oxygen permeation. <i>Chemical Engineering Science</i> , 2009, 64, 4383-4388.	1.9	68
10	Tailored fibro-porous structure of electrospun polyurethane membranes, their size-dependent properties and trans-membrane glucose diffusion. <i>Journal of Membrane Science</i> , 2013, 427, 207-217.	4.1	67
11	Micro-structured alumina hollow fibre membranes – Potential applications in wastewater treatment. <i>Journal of Membrane Science</i> , 2014, 461, 39-48.	4.1	65
12	A novel dual-layer ceramic hollow fibre membrane reactor for methane conversion. <i>Journal of Membrane Science</i> , 2010, 352, 63-70.	4.1	63
13	Dual-layer hollow fibres with different anode structures for micro-tubular solid oxide fuel cells. <i>Journal of Power Sources</i> , 2012, 205, 272-280.	4.0	56
14	Formation of micro-channels in ceramic membranes – Spatial structure, simulation, and potential use in water treatment. <i>Journal of Membrane Science</i> , 2015, 483, 1-14.	4.1	55
15	An oxygen permeable membrane microreactor with an in-situ deposited Bi _{1.5} Y _{0.3} Sm _{0.2} O ₃ catalyst for oxidative coupling of methane. <i>Journal of Membrane Science</i> , 2015, 488, 182-193.	4.1	54
16	A novel low-temperature fabrication approach of composite phase change materials for high temperature thermal energy storage. <i>Applied Energy</i> , 2019, 237, 367-377.	5.1	53
17	Novel co-extruded electrolyte-anode hollow fibres for solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2009, 11, 1799-1802.	2.3	50
18	Oxygen permeability and stability of Al ₂ O ₃ -doped SrCo _{0.8} Fe _{0.2} O ₃ mixed conducting oxides. <i>Journal of Membrane Science</i> , 2006, 279, 320-327.	4.1	49

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19	A micro-structured La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} hollow fibre membrane reactor for oxidative coupling of methane. <i>Journal of Membrane Science</i> , 2014, 468, 31-41.	4.1	48
20	A multifunctional Pd/alumina hollow fibre membrane reactor for propane dehydrogenation. <i>Catalysis Today</i> , 2010, 156, 93-99.	2.2	47
21	Combination of a Two-Zone Fluidized Bed Reactor with a Pd hollow fibre membrane for catalytic alkane dehydrogenation. <i>Chemical Engineering Journal</i> , 2009, 155, 298-303.	6.6	46
22	Co-extrusion of electrolyte/anode functional layer/anode triple-layer ceramic hollow fibres for micro-tubular solid oxide fuel cells—electrochemical performance study. <i>Journal of Power Sources</i> , 2015, 273, 999-1005.	4.0	43
23	A controlled sintering process for more permeable ceramic hollow fibre membranes. <i>Journal of Membrane Science</i> , 2013, 446, 286-293.	4.1	42
24	Stabilities of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} oxygen separation membranes—Effects of kinetic demixing/decomposition and impurity segregation. <i>Journal of Membrane Science</i> , 2009, 344, 101-106.	4.1	40
25	Ni/SBA-15 Catalysts for combined steam methane reforming and water gas shift—Prepared for use in catalytic membrane reactors. <i>Applied Catalysis A: General</i> , 2015, 506, 188-196.	2.2	39
26	Single-step fabrication and characterisations of triple-layer ceramic hollow fibres for micro-tubular solid oxide fuel cells (SOFCs). <i>Journal of Membrane Science</i> , 2014, 449, 1-8.	4.1	38
27	Electrolyte thickness control and its effect on electrolyte/anode dual-layer hollow fibres for micro-tubular solid oxide fuel cells. <i>Journal of Membrane Science</i> , 2010, 365, 382-388.	4.1	37
28	Morphology, performance and stability of multi-bore capillary La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} oxygen transport membranes. <i>Journal of Membrane Science</i> , 2017, 529, 224-233.	4.1	37
29	A dual-structured anode/Ni-mesh current collector hollow fibre for micro-tubular solid oxide fuel cells (SOFCs). <i>Journal of Power Sources</i> , 2014, 251, 145-151.	4.0	35
30	Micro-structured alumina multi-channel capillary tubes and monoliths. <i>Journal of Membrane Science</i> , 2015, 489, 64-72.	4.1	34
31	Novel fabrication technique of hollow fibre support for micro-tubular solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 5035-5044.	4.0	31
32	A novel inorganic hollow fiber membrane reactor for catalytic dehydrogenation of propane. <i>AIChE Journal</i> , 2009, 55, 2389-2398.	1.8	30
33	Producing carbon nanotubes from thermochemical conversion of waste plastics using Ni/ceramic based catalyst. <i>Chemical Engineering Science</i> , 2018, 192, 882-891.	1.9	30
34	Solvent distillation by ceramic hollow fibre membrane contactors. <i>Journal of Membrane Science</i> , 2008, 314, 58-66.	4.1	28
35	A highly permeable hollow fibre substrate for Pd/Al ₂ O ₃ composite membranes in hydrogen permeation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 3249-3258.	3.8	28
36	A new hollow fibre catalytic converter design for sustainable automotive emissions control. <i>Catalysis Communications</i> , 2019, 120, 86-90.	1.6	28

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37	Heat storage performance analysis and parameter design for encapsulated phase change materials. Energy Conversion and Management, 2018, 157, 619-630.	4.4	26
38	Pd/Al ₂ O ₃ composite hollow fibre membranes: Effect of substrate resistances on H ₂ permeation properties. Chemical Engineering Science, 2011, 66, 1150-1158.	1.9	25
39	Electrospun polyurethane-core and gelatin-shell coaxial fibre coatings for miniature implantable biosensors. Biofabrication, 2014, 6, 015002.	3.7	25
40	Use of a Ceramic Membrane to Improve the Performance of Two-Separate-Phase Biocatalytic Membrane Reactor. Molecules, 2016, 21, 345.	1.7	25
41	One-Step Synthesis and Characterization of La ₂ NiO ₄ + δ Mixed-Conductive Oxide for Oxygen Permeation. Industrial & Engineering Chemistry Research, 2007, 46, 6910-6915.	1.8	24
42	Effect of pH on synthesis and properties of perovskite oxide via a citrate process. AIChE Journal, 2006, 52, 769-776.	1.8	22
43	Functional LSM+ScSZ/NiO+ScSZ dual-layer hollow fibres for partial oxidation of methane. International Journal of Hydrogen Energy, 2011, 36, 5334-5341.	3.8	22
44	Highly efficient preparation of Ce _{0.8} Sm _{0.2} O ₂ - δ +SrCo _{0.9} Nb _{0.1} O ₃ - δ dual-phase four-channel hollow fiber membrane via one-step thermal processing approach. Journal of Membrane Science, 2021, 620, 118752.	4.1	22
45	Effects of fabrication processes on oxygen permeation of Nb ₂ O ₅ -doped SrCo _{0.8} Fe _{0.2} O ₃ - δ micro-tubular membranes. Journal of Membrane Science, 2013, 442, 1-7.	4.1	21
46	High-efficiency, nickel-ceramic composite anode current collector for micro-tubular solid oxide fuel cells. Journal of Power Sources, 2015, 280, 446-452.	4.0	20
47	A catalytic hollow fibre membrane reactor for combined steam methane reforming and water gas shift reaction. Chemical Engineering Science, 2015, 137, 364-372.	1.9	19
48	Effect of the Packing Amount of Catalysts on the Partial Oxidation of Methane Reaction in a Dense Oxygen-Permeable Membrane Reactor. Industrial & Engineering Chemistry Research, 2005, 44, 1954-1959.	1.8	18
49	X-ray tomography-assisted study of a phase inversion process in ceramic hollow fiber systems "Towards practical structural design. Journal of Membrane Science, 2017, 528, 24-33.	4.1	18
50	Biorefinery of olive leaves to produce dry oleuropein aglycone: Use of homemade ceramic capillary biocatalytic membranes in a multiphase system. Chemical Engineering Science, 2018, 185, 149-156.	1.9	18
51	Contribution of the Surface Reactions to the Overall Oxygen Permeation of the Mixed Conducting Membranes. Industrial & Engineering Chemistry Research, 2006, 45, 2824-2829.	1.8	17
52	A dual layer Ni/Ni-YSZ hollow fibre for micro-tubular SOFC anode support with a current collector. Electrochemistry Communications, 2011, 13, 93-95.	2.3	16
53	Compact hollow fibre reactors for efficient methane conversion. Journal of the European Ceramic Society, 2017, 37, 5281-5287.	2.8	15
54	Bi _{1.5} Y _{0.3} Sm _{0.2} O ₃ - δ -based ceramic hollow fibre membranes for oxygen separation and chemical reactions. Journal of Membrane Science, 2013, 432, 58-65.	4.1	13

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55	Integrating Pd-doped perovskite catalysts with ceramic hollow fibre substrate for efficient CO oxidation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103897.	3.3	13
56	A dense oxygen separation membrane deriving from nanosized mixed conducting oxide. <i>Journal of Membrane Science</i> , 2007, 291, 172-179.	4.1	12
57	Microstructure and Performance Investigation of a Solid Oxide Fuel Cells Based on Highly Asymmetric YSZ Microtubular Electrolytes. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 6062-6068.	1.8	11
58	Electrochemical promotion of a Pt catalyst supported on La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} hollow fibre membranes. <i>Solid State Ionics</i> , 2012, 225, 382-385.	1.3	11
59	Ni/NiO-YSZ Current Collector/Anode Dual Layer Hollow Fibers for Micro-Tubular Solid Oxide Fuel Cells. <i>Fuel Cells</i> , 2011, 11, 690-696.	1.5	10
60	Structure and Oxygen Permeability of BaCo _{0.4} Fe _{0.6-x} Zr _x O _{3-δ} Oxide: Effect of the Synthesis Method. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 2747-2752.	1.8	9
61	A novel phase transition technique for fabrication of mesopore sized ceramic membranes. <i>Journal of Membrane Science</i> , 2009, 339, 5-9.	4.1	9
62	Microstructured Catalytic Hollow Fiber Reactor for Methane Steam Reforming. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 5563-5571.	1.8	9
63	Fabrication of lanthanum-based perovskites membranes on porous alumina hollow fibre (AHF) substrates for oxygen enrichment. <i>Ceramics International</i> , 2019, 45, 13086-13093.	2.3	7
64	Effects of separation layer thickness on oxygen permeation and mechanical strength of DL-HFMR-ScSZ. <i>Journal of Membrane Science</i> , 2012, 415-416, 229-236.	4.1	6
65	Microstructured Bi _{1.5} Y _{0.3} Sm _{0.2} O _{3-δ} catalysts for oxidative coupling of methane. <i>AIChE Journal</i> , 2015, 61, 3451-3458.	1.8	5
66	Functional Dual-Layer Ceramic Hollow Fibre Membranes for Methane Conversion. <i>Procedia Engineering</i> , 2012, 44, 1484-1485.	1.2	3
67	A Review: Research into Organic Surface Treatment of Titanium Dioxide Material. <i>Materials Science Forum</i> , 2018, 914, 193-201.	0.3	3
68	Novel Catalytic Membrane Micro-reactors for CO ₂ Capture Via pre-combustion Decarbonization Route. <i>Procedia Engineering</i> , 2012, 44, 1315-1316.	1.2	2
69	Advanced Ceramic Substrate with Ordered and Designed Micro-Structure for Applications in Automotive Catalysis. , 2014, , .		2
70	In-Situ Catalytic Surface Modification of Micro-Structured La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} (LSCF) Oxygen Permeable Membrane Using Vacuum-Assisted technique. <i>MATEC Web of Conferences</i> , 2016, 69, 05002.	0.1	1