

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 efficient preparation of $\text{Ce}_{0.8}\text{Sm}_{0.2}\text{O}_{2-\delta}$ – $\text{SrCo}_{0.9}\text{Nb}_{0.1}\text{O}_{3-\delta}$ dual-phase four-channel hollow fiber membrane via one-step thermal processing approach. <i>Journal of Membrane Science</i> , 2021, 620, 118752.	4.1	22
2	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
3	Manganese oxide integrated catalytic ceramic membrane for degradation of organic pollutants using sulfate radicals. <i>Water Research</i> , 2019, 167, 115110.	5.3	165
4	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
5	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
6	A new hollow fibre catalytic converter design for sustainable automotive emissions control. <i>Catalysis Communications</i> , 2019, 120, 86-90.	1.6	28
7	Biorefinery of olive leaves to produce dry oleuropein aglycone: Use of homemade ceramic capillary biocatalytic membranes in a multiphase system. <i>Chemical Engineering Science</i> , 2018, 185, 149-156.	1.9	18
8	Heat storage performance analysis and parameter design for encapsulated phase change materials. <i>Energy Conversion and Management</i> , 2018, 157, 619-630.	4.4	26
9	A Review: Research into Organic Surface Treatment of Titanium Dioxide Material. <i>Materials Science Forum</i> , 2018, 914, 193-201.	0.3	3
10	<i>n</i> -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
11	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
12	X-ray tomography-assisted study of a phase inversion process in ceramic hollow fiber systems – Towards practical structural design. <i>Journal of Membrane Science</i> , 2017, 528, 24-33.	4.1	18
13	Compact hollow fibre reactors for efficient methane conversion. <i>Journal of the European Ceramic Society</i> , 2017, 37, 5281-5287.	2.8	15
14	Morphology, performance and stability of multi-bore capillary $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ oxygen transport membranes. <i>Journal of Membrane Science</i> , 2017, 529, 224-233.	4.1	37
15	Use of a Ceramic Membrane to Improve the Performance of Two-Separate-Phase Biocatalytic Membrane Reactor. <i>Molecules</i> , 2016, 21, 345.	1.7	25
16	In-Situ Catalytic Surface Modification of Micro-Structured $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ (LSCF) Oxygen Permeable Membrane Using Vacuum-Assisted technique. <i>MATEC Web of Conferences</i> , 2016, 69, 05002.	0.1	1
17	Microstructured $\text{Bi}_{1.5}\text{Y}_{0.3}\text{Sm}_{0.2}\text{O}_{3-\delta}$ catalysts for oxidative coupling of methane. <i>AIChE Journal</i> , 2015, 61, 3451-3458.	1.8	5
18	Microstructured Catalytic Hollow Fiber Reactor for Methane Steam Reforming. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 5563-5571.	1.8	9

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19	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
20	High-efficiency, nickel-ceramic composite anode current collector for micro-tubular solid oxide fuel cells. <i>Journal of Power Sources</i> , 2015, 280, 446-452.	4.0	20
21	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
22	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
23	A catalytic hollow fibre membrane reactor for combined steam methane reforming and water gas shift reaction. <i>Chemical Engineering Science</i> , 2015, 137, 364-372.	1.9	19
24	Micro-structured alumina multi-channel capillary tubes and monoliths. <i>Journal of Membrane Science</i> , 2015, 489, 64-72.	4.1	34
25	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
26	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
27	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
28	Advanced Ceramic Substrate with Ordered and Designed Micro-Structure for Applications in Automotive Catalysis. , 2014, , .		2
29	Electrospun polyurethane-core and gelatin-shell coaxial fibre coatings for miniature implantable biosensors. <i>Biofabrication</i> , 2014, 6, 015002.	3.7	25
30	Micro-structured alumina hollow fibre membranes – Potential applications in wastewater treatment. <i>Journal of Membrane Science</i> , 2014, 461, 39-48.	4.1	65
31	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
32	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
33	A micro-structured La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ hollow fibre membrane reactor for oxidative coupling of methane. <i>Journal of Membrane Science</i> , 2014, 468, 31-41.	4.1	48
34	Effects of fabrication processes on oxygen permeation of Nb ₂ O ₅ -doped SrCo _{0.8} Fe _{0.2} O ₃ micro-tubular membranes. <i>Journal of Membrane Science</i> , 2013, 442, 1-7.	4.1	21
35	A controlled sintering process for more permeable ceramic hollow fibre membranes. <i>Journal of Membrane Science</i> , 2013, 446, 286-293.	4.1	42
36	Bi _{1.5} Y _{0.3} Sm _{0.2} O ₃ -based ceramic hollow fibre membranes for oxygen separation and chemical reactions. <i>Journal of Membrane Science</i> , 2013, 432, 58-65.	4.1	13

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37	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
38	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
39	Functional Dual-Layer Ceramic Hollow Fibre Membranes for Methane Conversion. <i>Procedia Engineering</i> , 2012, 44, 1484-1485.	1.2	3
40	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
41	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
42	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
43	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
44	Ni/Ni-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
45	Pd/Al ₂ O ₃ composite hollow fibre membranes: Effect of substrate resistances on H ₂ permeation properties. <i>Chemical Engineering Science</i> , 2011, 66, 1150-1158.	1.9	25
46	A dual layer Ni/Ni-YSZ hollow fibre for micro-tubular SOFC anode support with a current collector. <i>Electrochemistry Communications</i> , 2011, 13, 93-95.	2.3	16
47	Functional LSM-ScSZ/NiO-ScSZ dual-layer hollow fibres for partial oxidation of methane. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5334-5341.	3.8	22
48	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
49	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
50	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
51	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
52	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
53	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
54	A multifunctional Pd/alumina hollow fibre membrane reactor for propane dehydrogenation. <i>Catalysis Today</i> , 2010, 156, 93-99.	2.2	47

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55	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
56	A novel inorganic hollow fiber membrane reactor for catalytic dehydrogenation of propane. <i>AIChE Journal</i> , 2009, 55, 2389-2398.	1.8	30
57	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
58	Novel co-extruded electrolyte anode hollow fibres for solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2009, 11, 1799-1802.	2.3	50
59	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
60	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
61	Carbon dioxide stripping in ceramic hollow fibre membrane contactors. <i>Chemical Engineering Science</i> , 2009, 64, 1-8.	1.9	128
62	Fabrication of ultrathin La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} hollow fibre membranes for oxygen permeation. <i>Chemical Engineering Science</i> , 2009, 64, 4383-4388.	1.9	68
63	Solvent distillation by ceramic hollow fibre membrane contactors. <i>Journal of Membrane Science</i> , 2008, 314, 58-66.	4.1	28
64	One-Step Synthesis and Characterization of La ₂ NiO ₄ + δ Mixed-Conductive Oxide for Oxygen Permeation. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 6910-6915.	1.8	24
65	A dense oxygen separation membrane deriving from nanosized mixed conducting oxide. <i>Journal of Membrane Science</i> , 2007, 291, 172-179.	4.1	12
66	Contribution of the Surface Reactions to the Overall Oxygen Permeation of the Mixed Conducting Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 2824-2829.	1.8	17
67	Oxygen permeability and stability of Al ₂ O ₃ -doped SrCo _{0.8} Fe _{0.2} O _{3-δ} mixed conducting oxides. <i>Journal of Membrane Science</i> , 2006, 279, 320-327.	4.1	49
68	Effect of pH on synthesis and properties of perovskite oxide via a citrate process. <i>AIChE Journal</i> , 2006, 52, 769-776.	1.8	22
69	Effect of the Packing Amount of Catalysts on the Partial Oxidation of Methane Reaction in a Dense Oxygen-Permeable Membrane Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 1954-1959.	1.8	18
70	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