

Giuseppe Barbieri

List of Publications by Year in descending order

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194
papers

6,108
citations

61857

43
h-index

85405

71
g-index

211
all docs

211
docs citations

211
times ranked

4958
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane technologies for CO ₂ separation. <i>Journal of Membrane Science</i> , 2010, 359, 115-125.	4.1	767
2	Direct contact membrane distillation: modelling and concentration experiments. <i>Journal of Membrane Science</i> , 2000, 166, 1-11.	4.1	312
3	Mass transfer and metabolic reactions in hepatocyte spheroids cultured in rotating wall gas-permeable membrane system. <i>Biomaterials</i> , 2007, 28, 5487-5497.	5.7	222
4	Simulation of the Methane Steam Re-forming Process in a Catalytic Pd-Membrane Reactor. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 2121-2127.	1.8	134
5	Simulation study of water gas shift reaction in a membrane reactor. <i>Journal of Membrane Science</i> , 2007, 306, 329-340.	4.1	116
6	An innovative configuration of a Pd-based membrane reactor for the production of pure hydrogen. <i>Journal of Power Sources</i> , 2008, 182, 160-167.	4.0	112
7	Permeation properties of a thin silicalite-1 (MFI) membrane. <i>Journal of Membrane Science</i> , 2003, 222, 181-190.	4.1	110
8	Modelling and simulation of hydrogen permeation through supported Pd-alloy membranes with a multicomponent approach. <i>Chemical Engineering Science</i> , 2008, 63, 2149-2160.	1.9	110
9	Concentration polarization analysis in self-supported Pd-based membranes. <i>Separation and Purification Technology</i> , 2009, 66, 613-624.	3.9	110
10	Integrated membrane operations in desalination processes. <i>Desalination</i> , 1999, 122, 141-145.	4.0	101
11	Process intensification strategies and membrane engineering. <i>Green Chemistry</i> , 2012, 14, 1561.	4.6	101
12	Methane Steam Reforming Analysis in a Palladium-Based Catalytic Membrane Reactor. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 3369-3374.	1.8	94
13	Sieverts Law Empirical Exponent for Pd-Based Membranes: Critical Analysis in Pure H ₂ Permeation. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6033-6047.	1.2	92
14	WGS reaction in a membrane reactor using a porous stainless steel supported silica membrane. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007, 46, 119-126.	1.8	84
15	Engineering evaluation of CO ₂ separation by membrane gas separation systems. <i>Journal of Membrane Science</i> , 2014, 454, 305-315.	4.1	81
16	Equilibrium conversion for a Pd-based membrane reactor. Dependence on the temperature and pressure. <i>Chemical Engineering and Processing: Process Intensification</i> , 2003, 42, 231-236.	1.8	74
17	Simulation of CO ₂ hydrogenation with CH ₃ OH removal in a zeolite membrane reactor. <i>Chemical Engineering Journal</i> , 2002, 85, 53-59.	6.6	72
18	Effect of energy transport on a palladium-based membrane reactor for methane steam reforming process. <i>Catalysis Today</i> , 2001, 67, 85-99.	2.2	71

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19	A novel model equation for the permeation of hydrogen in mixture with carbon monoxide through Pd–Ag membranes. <i>Separation and Purification Technology</i> , 2008, 61, 217-224.	3.9	71
20	ECTFE membrane preparation for recovery of humidified gas streams using membrane condenser. <i>Reactive and Functional Polymers</i> , 2014, 79, 1-7.	2.0	71
21	Diffusive and convective transport through hollow fiber membranes for liver cell culture. <i>Journal of Biotechnology</i> , 2005, 117, 309-321.	1.9	68
22	Upgrading of a syngas mixture for pure hydrogen production in a Pd–Ag membrane reactor. <i>Chemical Engineering Science</i> , 2009, 64, 3448-3454.	1.9	67
23	Membrane Condenser as a New Technology for Water Recovery from Humidified Waste Gaseous Streams. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 1160-1167.	1.8	66
24	Effect of the preparation conditions on the formation of asymmetric poly(vinylidene fluoride) hollow fibre membranes with a dense skin. <i>European Polymer Journal</i> , 2010, 46, 1713-1725.	2.6	65
25	Theoretical and experimental analysis of methane steam reforming in a membrane reactor. <i>Canadian Journal of Chemical Engineering</i> , 1999, 77, 698-706.	0.9	61
26	A novel seeding procedure for preparing tubular NaY zeolite membranes. <i>Microporous and Mesoporous Materials</i> , 2009, 119, 129-136.	2.2	56
27	Fabrication of thermally rearranged (TR) polybenzoxazole hollow fiber membranes with superior CO ₂ /N ₂ separation performance. <i>Journal of Membrane Science</i> , 2015, 490, 129-138.	4.1	56
28	An Investigation into the Stability of Graphitic C ₃ N ₄ as a Photocatalyst for CO ₂ Reduction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28727-28738.	1.5	56
29	Conversion–Temperature Diagram for a Palladium Membrane Reactor. Analysis of an Endothermic Reaction: Methane Steam Reforming. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 2017-2026.	1.8	55
30	Hydrogen purification from carbon monoxide by means of selective oxidation using zeolite catalytic membranes. <i>Separation and Purification Technology</i> , 2008, 62, 629-635.	3.9	54
31	Separation of CO ₂ from humidified ternary gas mixtures using thermally rearranged polymeric membranes. <i>Journal of Membrane Science</i> , 2015, 492, 257-262.	4.1	54
32	CO ₂ to Liquid Fuels: Photocatalytic Conversion in a Continuous Membrane Reactor. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8743-8753.	3.2	54
33	Engineering Evaluations of a Catalytic Membrane Reactor for the Water Gas Shift Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 7676-7683.	1.8	53
34	PVDF-MFI mixed matrix membranes as VOCs adsorbers. <i>Microporous and Mesoporous Materials</i> , 2015, 207, 126-133.	2.2	53
35	Inhibition by CO and Polarization in Pd-Based Membranes: A Novel Permeation Reduction Coefficient. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12264-12276.	1.2	52
36	Sorption and Diffusion of CO ₂ /N ₂ in gas mixture in thermally-rearranged polymeric membranes: A molecular investigation. <i>Journal of Membrane Science</i> , 2017, 528, 135-146.	4.1	52

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37	A porous stainless steel supported silica membrane for WGS reaction in a catalytic membrane reactor. <i>Chemical Engineering Science</i> , 2007, 62, 5621-5626.	1.9	51
38	Membrane reactors for low temperature applications: An overview. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 124, 282-307.	1.8	51
39	Syngas upgrading in a membrane reactor with thin Pd-alloy supported membrane. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 10883-10893.	3.8	49
40	CO ₂ reduction by C ₃ N ₄ -TiO ₂ Nafion photocatalytic membrane reactor as a promising environmental pathway to solar fuels. <i>Applied Catalysis B: Environmental</i> , 2019, 255, 117779.	10.8	46
41	Fracture Behaviour of Nickel-Titanium Laser Welded Joints. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 569-574.	1.2	45
42	Thermally rearranged mixed matrix membranes for CO ₂ separation: An aging study. <i>International Journal of Greenhouse Gas Control</i> , 2017, 61, 16-26.	2.3	45
43	Sieverts law pressure exponent for hydrogen permeation through Pd-based membranes: Coupled influence of non-ideal diffusion and multicomponent external mass transfer. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16229-16244.	3.8	44
44	Process Intensification for greenhouse gas separation from biogas: More efficient process schemes based on membrane-integrated systems. <i>International Journal of Greenhouse Gas Control</i> , 2015, 35, 18-29.	2.3	44
45	Knudsen and surface diffusion competing for gas permeation inside silicalite membranes. <i>Journal of Membrane Science</i> , 2017, 523, 456-469.	4.1	44
46	Pd-based membrane reactors for one-stage process of water gas shift. <i>RSC Advances</i> , 2011, 1, 651.	1.7	43
47	H ₂ Separation From H ₂ /N ₂ and H ₂ /CO Mixtures with Co-Polyimide Hollow Fiber Module. <i>Separation Science and Technology</i> , 2010, 46, 1-13.	1.3	40
48	Water recovery from humidified waste gas streams: Quality control using membrane condenser technology. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 86, 196-203.	1.8	40
49	Numerical modeling of heat transfer and fluid flow in hybrid laser-TIG welding of aluminum alloy AA6082. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 77, 2067-2082.	1.5	40
50	The influence of the CO inhibition effect on the estimation of the H ₂ purification unit surface. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4183-4192.	3.8	39
51	PIM-polyimide multiblock copolymer-based membranes with enhanced CO ₂ separation performances. <i>Journal of Membrane Science</i> , 2019, 574, 270-281.	4.1	39
52	Catalytic (Pt-Y) membranes for the purification of H ₂ -rich streams. <i>Catalysis Today</i> , 2006, 118, 90-97.	2.2	38
53	Waste Gaseous Streams: From Environmental Issue to Source of Water by Using Membrane Condensers. <i>Clean - Soil, Air, Water</i> , 2014, 42, 1145-1153.	0.7	38
54	Polyimide hollow fiber membranes for CO ₂ separation from wet gas mixtures. <i>Brazilian Journal of Chemical Engineering</i> , 2014, 31, 1023-1034.	0.7	37

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55	Membrane condenser configurations for water recovery from waste gases. Separation and Purification Technology, 2017, 181, 60-68.	3.9	37
56	Discrimination among gas translation, surface and Knudsen diffusion in permeation through zeolite membranes. Journal of Membrane Science, 2018, 564, 166-173.	4.1	37
57	Highly-performing and low-cost nanostructured membranes based on Polysulfone and layered doubled hydroxide for high-temperature proton exchange membrane fuel cells. Journal of Power Sources, 2020, 471, 228440.	4.0	37
58	Membrane engineering for environmental protection and sustainable industrial growth: Options for water and gas treatment. Environmental Engineering Research, 2015, 20, 307-328.	1.5	35
59	CO2 conversion in a photocatalytic continuous membrane reactor. RSC Advances, 2016, 6, 67418-67427.	1.7	34
60	A novel modelling approach to surface and Knudsen multicomponent diffusion through NaY zeolite membranes. Microporous and Mesoporous Materials, 2016, 235, 87-99.	2.2	34
61	Methanol Conversion to Dimethyl Ether in Catalytic Zeolite Membrane Reactors. ACS Sustainable Chemistry and Engineering, 2020, 8, 10471-10479.	3.2	34
62	In-line formation of chemically cross-linked P84® co-polyimide hollow fibre membranes for H2/CO2 separation. Separation and Purification Technology, 2010, 76, 132-139.	3.9	33
63	Coupled influence of non-ideal diffusion and multilayer asymmetric porous supports on Sieverts law pressure exponent for hydrogen permeation in composite Pd-based membranes. International Journal of Hydrogen Energy, 2014, 39, 2201-2214.	3.8	33
64	CO2 separation from binary mixtures of CH4, N2, and H2 by using SSZ-13 zeolite membrane. Separation and Purification Technology, 2021, 256, 117796.	3.9	32
65	New approach for the evaluation of membranes transport properties for polymer electrolyte membrane fuel cells. Journal of Power Sources, 2012, 205, 222-230.	4.0	29
66	Polysulfone and organo-modified graphene oxide for new hybrid proton exchange membranes: A green alternative for high-efficiency PEMFCs. Electrochimica Acta, 2021, 380, 138214.	2.6	28
67	Applications of membrane unit operations in ethylene process. Clean Technologies and Environmental Policy, 2004, 6, 78-95.	2.1	27
68	Fetuin-A gene expression, synthesis and release in primary human hepatocytes cultured in a galactosylated membrane bioreactor. Biomaterials, 2007, 28, 4836-4844.	5.7	27
69	Evaluation of membrane reactor with hydrogen-selective membrane in methane steam reforming. Chemical Engineering Science, 2010, 65, 1159-1166.	1.9	27
70	Medium/high temperature water gas shift reaction in a Pd-Ag membrane reactor: an experimental investigation. RSC Advances, 2012, 2, 226-233.	1.7	27
71	Process Intensification by Membrane Reactors: High-Temperature Water Gas Shift Reaction as Single Stage for Syngas Upgrading. Chemical Engineering and Technology, 2012, 35, 1238-1248.	0.9	27
72	Concentration polarization distribution along Pd-based membrane reactors: A modelling approach applied to Water-Gas Shift. International Journal of Hydrogen Energy, 2016, 41, 2660-2670.	3.8	26

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73	The effect of operating conditions on the performance of hollow fiber membrane modules for CO ₂ /N ₂ separation. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 205-211.	2.9	25
74	Mutual influence of mixed-gas permeation in thermally rearranged poly(benzoxazole-co-imide) polymer membranes. <i>Journal of Membrane Science</i> , 2019, 580, 202-213.	4.1	25
75	A PEMFC and H ₂ membrane purification integrated plant. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008, 47, 1081-1089.	1.8	24
76	Estimation of Langmuir and Sips Models Adsorption Parameters for NaX and NaY FAU Zeolites. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 2858-2868.	1.0	24
77	In situ restoring of aged thermally rearranged gas separation membranes. <i>Journal of Membrane Science</i> , 2016, 520, 671-678.	4.1	24
78	Membrane air separation for intensification of coal gasification process. <i>Fuel Processing Technology</i> , 2003, 80, 119-141.	3.7	23
79	Silica sol gel assisted defect patching of SSZ-13 zeolite membranes for CO ₂ /CH ₄ separation. <i>Separation and Purification Technology</i> , 2021, 277, 119518.	3.9	22
80	Pd-Based Membrane Reactor for Syngas Upgrading. <i>Energy & Fuels</i> , 2009, 23, 5073-5076.	2.5	21
81	CO ₂ /CH ₄ separation by means of Matrimid hollow fibre membranes. <i>Applied Petrochemical Research</i> , 2016, 6, 439-450.	1.3	21
82	Study of the separation properties of FAU membranes constituted by hierarchically assembled nanozeolites. <i>Separation and Purification Technology</i> , 2015, 156, 321-327.	3.9	20
83	Support mass transfer resistance of Pd/ceramic composite membranes in the presence of sweep gas. <i>Journal of Membrane Science</i> , 2018, 550, 365-376.	4.1	20
84	Influence of the preparation conditions on the properties of polymeric and hybrid cation exchange membranes. <i>Electrochimica Acta</i> , 2012, 66, 164-172.	2.6	19
85	Electron Beam Welding of IN792 DS: Effects of Pass Speed and PWHT on Microstructure and Hardness. <i>Materials</i> , 2017, 10, 1033.	1.3	19
86	Membrane reactor in fatty acid production. <i>Journal of Membrane Science</i> , 1988, 36, 525-534.	4.1	18
87	Energy and mass intensities in hydrogen upgrading by a membrane reactor. <i>Fuel Processing Technology</i> , 2014, 118, 278-286.	3.7	18
88	Integrated membrane system for pure hydrogen production: A Pd-Ag membrane reactor and a PEMFC. <i>Fuel Processing Technology</i> , 2011, 92, 166-174.	3.7	17
89	Phosphonium ionic liquid-polyacrylate copolymer membranes for improved CO ₂ separations. <i>Journal of Membrane Science</i> , 2021, 635, 119479.	4.1	17
90	Long-term performance of highly selective carbon hollow fiber membranes for biogas upgrading in the presence of H ₂ S and water vapor. <i>Chemical Engineering Journal</i> , 2022, 448, 137615.	6.6	17

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91	Gusev and Suter calculation of the diffusion coefficients of light gases in silicalite-1 membrane and silica-sodalite zeolite. Separation and Purification Technology, 2004, 36, 215-228.	3.9	15
92	H ₂ for PEM-FC: effect of CO in the purification by means of Pd-based membranes. Desalination, 2006, 200, 239-241.	4.0	15
93	Low and Intermediate Temperature Ethane Combustion Modeling. Combustion Science and Technology, 1994, 98, 95-122.	1.2	14
94	Membrane bioreactor using pig hepatocytes for in vitro evaluation of anti-inflammatory drugs. Catalysis Today, 2006, 118, 172-180.	2.2	14
95	Hydrogen mixture separation with PEEK-WC asymmetric membranes. Separation and Purification Technology, 2009, 69, 195-204.	3.9	14
96	CO ₂ Separation via a DDR Membrane: Mutual Influence of Mixed Gas Permeation. Industrial & Engineering Chemistry Research, 2020, 59, 7054-7060.	1.8	14
97	Modeling Methane Coot Flames and Ignitions. Combustion Science and Technology, 1995, 106, 83-102.	1.2	13
98	Process Intensification via Membrane Reactors, the DEMCAMER Project. Processes, 2016, 4, 16.	1.3	13
99	CO ₂ /H ₂ Selectivity Prediction of NaY, DD3R, and Silicalite Zeolite Membranes. Industrial & Engineering Chemistry Research, 2018, 57, 11431-11438.	1.8	13
100	Membrane condenser as emerging technology for water recovery and gas pre-treatment: current status and perspectives. BMC Chemical Engineering, 2019, 1, .	3.4	13
101	Multi-step membrane process for biogas upgrading. Journal of Membrane Science, 2022, 652, 120454.	4.1	13
102	An Exergetic Analysis of Membrane Unit Operations Integrated in the Ethylene Production Cycle. Chemical Engineering Research and Design, 2006, 84, 405-411.	2.7	12
103	Direct Conversion of <i>n</i> -Butane to Isobutene in a Membrane Reactor: Thermodynamic Analysis. Industrial & Engineering Chemistry Research, 2013, 52, 10380-10386.	1.8	12
104	Evaluation of pure component adsorption properties of silicalite based on the Langmuir and Sips models. AIChE Journal, 2015, 61, 3911-3922.	1.8	12
105	LoLiPEM: Long life proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2016, 41, 1921-1934.	3.8	12
106	Self-assembly of tissue spheroids on polymeric membranes. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2090-2103.	1.3	12
107	Laser Beam Welding of a Ti-6Al-4V Support Flange for Buy-to-Fly Reduction. Metals, 2017, 7, 183.	1.0	12
108	Dry Reforming of Methane in a Pd-Ag Membrane Reactor: Thermodynamic and Experimental Analysis. ChemEngineering, 2018, 2, 48.	1.0	12

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109	Reaction rate profiles in long palladium membrane reactors for methane steam reforming. Desalination, 2008, 233, 359-366.	4.0	11
110	Mathematical Modeling of Pd-Alloy Membrane Reactors. Membrane Science and Technology, 2008, , 325-400.	0.5	11
111	Pd/Ag-based membrane reactors on small scale: Assessment of the feed pressure and design parameters effect on the performance. Chemical Engineering and Processing: Process Intensification, 2010, 49, 722-731.	1.8	11
112	Mutual influence in permeation of CO ₂ -containing mixtures through a SAPO-34 membrane. Journal of Membrane Science, 2020, 595, 117534.	4.1	11
113	CO ₂ separation from humidified ternary gas mixtures using a polydecylmethylsiloxane composite membrane. Fuel Processing Technology, 2020, 210, 106550.	3.7	11
114	Liquid phase benzene hydroxylation to phenol using semi-batch and continuous membrane reactors. Separation and Purification Technology, 2013, 107, 195-203.	3.9	10
115	Welding of Automotive Aluminum Alloys by Laser Wobbling Processing. Materials Science Forum, 0, 879, 1057-1062.	0.3	10
116	Membrane Engineering for Biogas Valorization. Frontiers in Chemical Engineering, 2021, 3, .	1.3	10
117	Stabilization of Sulfonated Aromatic Polymer (SAP) Membranes Based on SPEEK-WC for PEMFCs. Fuel Cells, 2013, 13, 86-97.	1.5	9
118	Evaluation of Pure-Component Adsorption Properties of DD3R Based on the Langmuir and Sips Models. Journal of Chemical & Engineering Data, 2015, 60, 2343-2355.	1.0	9
119	Disk-laser Welding of Ti-6Al-4V Titanium Alloy Plates in T-joint Configuration. Procedia Engineering, 2017, 183, 219-226.	1.2	9
120	Influence of Lipase Immobilization Mode on Ethyl Acetate Hydrolysis in a Continuous Solid-Gas Biocatalytic Membrane Reactor. Bioconjugate Chemistry, 2019, 30, 2238-2246.	1.8	9
121	Recovery of water and contaminants from cooling tower plume. Environmental Engineering Research, 2020, 25, 222-229.	1.5	9
122	Combustion processes in CSTR. Bifurcation analysis of the H ₂ -O ₂ system. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 2989-2996.	1.7	8
123	Modeling of two separate phase enzyme membrane reactors for kinetic resolution of naproxen ester. Desalination, 2006, 200, 514-515.	4.0	8
124	Water vapor permeation and its influence on gases through a zeolite-4A membrane. Journal of Membrane Science, 2019, 574, 154-163.	4.1	8
125	Sodium tungstate immobilized on plasma-treated PVDF membranes: New efficient heterogeneous catalyst for oxidation of secondary amines to nitrones. Journal of Molecular Catalysis A, 2007, 273, 32-38.	4.8	7
126	Process intensification and fuel cells using a Multi-Source Multi-Product approach. Chemical Engineering and Processing: Process Intensification, 2012, 51, 88-108.	1.8	7

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127	Light gases saturation loading dependence on temperature in LTA 4A zeolite. Microporous and Mesoporous Materials, 2017, 249, 67-77.	2.2	7
128	Investigation on laser welding of Ti-6Al-4V plates in corner joint. Advances in Mechanical Engineering, 2017, 9, 168781401668554.	0.8	7
129	Residual stress measurement on Titanium Grade 5 and Inconel 625 thin dissimilar welded joints by contour method. Journal of Materials Science, 2022, 57, 671-686.	1.7	7
130	Porous stainless steel supported silica membrane for WGS reaction. Desalination, 2006, 200, 681-683.	4.0	6
131	Equilibrium of a Pd-based membrane reactor. Desalination, 2006, 200, 679-680.	4.0	6
132	Catalytic zeolite membrane reactors for the selective CO oxidation. Desalination, 2006, 200, 702-704.	4.0	6
133	Welding of IN792 DS superalloy by electron beam. Surface and Interface Analysis, 2016, 48, 483-487.	0.8	6
134	Chapter 12. Membrane Reactors in Hydrogen Production. , 2011, , 87-109.		6
135	Limit conversion of a palladium membrane reactor using counter-current sweep gas on methane steam reforming. Desalination, 2006, 200, 708-709.	4.0	5
136	Ceramic Membranes in Carbon Dioxide Capture: Applications and Potentialities. Advances in Science and Technology, 0, , .	0.2	5
137	Chapter 17. Zeolite Membranes for Gas Separations. , 2011, , 223-252.		5
138	Estimating limit conversion for methane steam reforming in a palladium membrane reactor using countercurrent sweep gas. Asia-Pacific Journal of Chemical Engineering, 2010, 5, 48-59.	0.8	4
139	Chapter 19. New Metrics in Membrane Gas Separation. , 2011, , 279-301.		4
140	Mechanical Behavior of Aluminum Sandwiches Made by Laser Welding. Procedia Engineering, 2015, 109, 427-434.	1.2	4
141	IN792 DS Superalloy: Optimization of EB Welding and Post-Welding Heat Treatments. Materials Science Forum, 2016, 879, 175-180.	0.3	4
142	Oxidative treatment effect on TiH ₂ powders. Surface and Interface Analysis, 2018, 50, 1195-1199.	0.8	4
143	Materials for High Temperature Liquid Lead Storage for Concentrated Solar Power (CSP) Air Tower Systems. Materials, 2021, 14, 3261.	1.3	4
144	CHAPTER 1. Membrane Reactors for Hydrogen Production. , 0, , 1-29.		4

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145	Human galactosylated membrane bioreactor for the long-term maintenance of liver specific functions. <i>Desalination</i> , 2006, 199, 147-149.	4.0	3
146	Water Recovery from Waste Gaseous Streams: An Application of Hydrophobic Membranes. <i>Procedia Engineering</i> , 2012, 44, 202-203.	1.2	3
147	An Integrated Membrane Process for Butenes Production. <i>Processes</i> , 2016, 4, 42.	1.3	3
148	Analysis of membrane unit performance in presence of wet CO ₂ -containing mixtures. <i>Chemical Engineering Research and Design</i> , 2020, 153, 721-727.	2.7	3
149	Membrane Engineering for the Treatment of Gases. , 2017, , .		3
150	Water Gas Shift (WGS). , 2015, , 1-4.		3
151	Diffusive and convective transport in HF membrane reactors for biomedical applications. <i>Desalination</i> , 2006, 199, 135-137.	4.0	2
152	A PEMFC and H ₂ membrane purification integrated plant. <i>Desalination</i> , 2006, 199, 156-158.	4.0	2
153	Theoretical study of H ₂ permeation through supported Pd-based membranes. <i>Desalination</i> , 2006, 200, 242-244.	4.0	2
154	EBW of AA 6061 T651 aluminium alloy cold plates for the space guinea pig living unit cooling system. <i>Welding International</i> , 2012, 26, 360-369.	0.3	2
155	Welding of IN792 DS Superalloy by High Energy Density Techniques. <i>Materials Science Forum</i> , 0, 884, 166-177.	0.3	2
156	3.2 Modeling and Simulation of Membrane Reactors and Catalytic Membrane Reactors. , 2017, , 30-54.		2
157	Analysis of Nanoprecipitation Effect on Toughness Behavior in Warm Worked AA7050 Alloy. <i>Metals</i> , 2020, 10, 1693.	1.0	2
158	Trichloroethylene/Nitrogen Mixture Separation via membrane operations: Comparison with traditional technologies. <i>Separation and Purification Technology</i> , 2020, 251, 117344.	3.9	2
159	Advanced membrane-based processes for biogas upgrading. , 2022, , 345-373.		2
160	H ₂ permeation and its influence on gases through a SAPO-34 zeolite membrane. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 12036-12044.	3.8	2
161	Membrane technology applied to the n-butane oxidation in maleic anhydride production. <i>Chemical Engineering and Processing: Process Intensification</i> , 2003, 42, 45-54.	1.8	1
162	Synthesis of FAU-type Zeolite Membrane for Gas Separation. <i>Procedia Engineering</i> , 2012, 44, 699-700.	1.2	1

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163	Welding of high-resilience martensitic stainless steel for hydrodynamic components in innovative seacraft: a comparison of traditional and HDE technologies. <i>Welding International</i> , 2015, 29, 40-53.	0.3	1
164	Investigation of skin-core joints in aluminium foam sandwich panels by EDS and XPS. <i>Surface and Interface Analysis</i> , 2016, 48, 479-482.	0.8	1
165	Chapter 14. Polarization and Inhibition by Carbon Monoxide in Palladium-based Membranes. , 2011, , 137-161.		1
166	On the role of the coupled effect of Inhibition by CO and Concentration Polarization on Hydrogen Permeation through Pd-based Membranes. <i>Transactions of the Materials Research Society of Japan</i> , 2011, 36, 225-228.	0.2	1
167	Membrane Engineering and its Role in Oil Refining and Petrochemical Industry. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2016, , 116-149.	0.2	1
168	Sodium tungstate immobilised on plasma treated membranes: preparation, characterization and use in flat membrane reactors. <i>Desalination</i> , 2006, 200, 697-699.	4.0	0
169	Coupling Newton-Raphson and Bisection Solving Methods to Simulate Hydrogen Permeation through Pd-based Membranes with Inhibition by CO and Concentration Polarization. , 2010, , .		0
170	Modelling and Simulation of Catalytic Membrane Reactors. , 2010, , 57-79.		0
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