

Angelo B Basile

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

226 papers	6,757 citations	50 h-index	71 g-index
258 ext. papers	7,391 ext. citations	6.1 avg, IF	6.13 L-index

#	Paper	IF	Citations
226	Application of computational fluid dynamics technique in membrane reactor systems 2022 , 311-343		
225	Vapor phase esterification of acetic acid with ethanol in a CHA zeolite membrane reactor: A CFD analysis. <i>Chemical Engineering Science</i> , 2021 , 236, 116536	4.4	4
224	A novel tubular membrane reactor for pure hydrogen production in the synthesis of formaldehyde by the silver catalyst process. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 21953-21964	6.7	4
223	Hydrogen production by silica membrane reactor during dehydrogenation of methylcyclohexane: CFD analysis. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 19768-19777	6.7	3
222	Biopolymers for sustainable membranes in CO ₂ separation: a review. <i>Fuel Processing Technology</i> , 2021 , 213, 106643	7.2	21
221	Green hydrogen production from biocompounds through membrane engineering 2020 , 21-41		
220	Membrane technologies for exhaust gas cleaning and carbon capture and sequestration 2020 , 97-123		1
219	Conventional systems for exhaust gas cleaning and carbon capture and sequestration 2020 , 65-96		2
218	Case study: Economic assesment of cogeneration of fuel and electricity in an IGCC plant 2020 , 307-321		
217	Fuel and hydrogen treatment and production by membranes 2020 , 91-108		
216	A novel recovery loop for reducing greenhouse gas emission: Simultaneous production of syngas and pure hydrogen in a membrane reformer. <i>Renewable Energy</i> , 2020 , 153, 130-142	8.1	5
215	Development of membrane reactor technology for H ₂ production in reforming process for low-temperature fuel cells 2020 , 287-305		1
214	CO ₂ capture by bacteria and their enzymes 2020 , 407-429		0
213	Novel bioethanol production processes and purification technology using membranes. <i>Studies in Surface Science and Catalysis</i> , 2020 , 179, 359-384	1.8	2
212	Methanol steam reforming for hydrogen generation: A comparative modeling study between silica and Pd-based membrane reactors by CFD method. <i>Fuel Processing Technology</i> , 2020 , 199, 106273	7.2	15
211	An On-Board Pure H Supply System Based on A Membrane Reactor for A Fuel Cell Vehicle: A Theoretical Study. <i>Membranes</i> , 2020 , 10,	3.8	6
210	Theoretical evaluation of various configurations of silica membrane reactor in methanol steam reforming using CFD method. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7354-7363	6.7	11

209	Experimental evaluation of graphene oxide/TiO ₂ -alumina nanocomposite membranes performance for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7479-7487	6.7	13
208	Membranes for hydrogen separation 2020 , 91-134		
207	The performance evaluation of an industrial membrane reformer with catalyst-deactivation for a domestic methanol production plant. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 25730-25739	6.7	6
206	From sugars to ethanol from agricultural wastes to algal sources: An overview 2019 , 3-34		4
205	PLA Easy Fil White-based membranes for CO ₂ separation 2019 , 9, 360-369		12
204	Experimental study on graphene-based nanocomposite membrane for hydrogen purification: Effect of temperature and pressure. <i>Catalysis Today</i> , 2019 , 330, 16-23	5.3	13
203	Hydrogen permeation and separation characteristics of a thin Pd-Au/Al ₂ O ₃ membrane: The effect of the intermediate layer absence. <i>Catalysis Today</i> , 2019 , 330, 32-38	5.3	6
202	Microporous Carbon Membrane Reactors 2019 , 59-75		
201	Microporous Graphene-Based Membrane: Structure, Preparation, Characterization, and Applications 2019 , 301-327		
200	Microporous Graphene Membrane Reactors 2019 , 357-375		1
199	Advances on Inorganic Membrane Reactors for Production of Hydrogen 2019 , 935-945		3
198	Study on the Separation of H from CO Using a ZIF-8 Membrane by Molecular Simulation and Maxwell-Stefan Model. <i>Molecules</i> , 2019 , 24,	4.8	4
197	Steam Reforming, Preferential Oxidation, and Autothermal Reforming of Ethanol for Hydrogen Production in Membrane Reactors 2019 , 193-213		4
196	Progress in Modeling of Silica-Based Membranes and Membrane Reactors for Hydrogen Production and Purification. <i>ChemEngineering</i> , 2019 , 3, 2	2.6	8
195	Performance evaluation of Pd Ag membrane reactor in glycerol steam reforming process: Development of the CFD model. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 1000-1009	6.7	29
194	Hydrogen production as a green fuel in silica membrane reactor: Experimental analysis and artificial neural network modeling. <i>Fuel</i> , 2018 , 222, 114-124	7.1	32
193	Performance evaluation of graphene oxide (GO) nanocomposite membrane for hydrogen separation: Effect of dip coating sol concentration. <i>Separation and Purification Technology</i> , 2018 , 200, 169-176	8.3	30
192	Methanol Production and Applications: An Overview 2018 , 3-28		48

191	Reforming and Partial Oxidation Reactions of Methanol for Hydrogen Production 2018 , 239-278		0
190	Hydrogen production by a Pd Ag membrane reactor during glycerol steam reforming: ANN modeling study. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 7722-7730	6.7	32
189	From bioethanol exploitation to high grade hydrogen generation: Steam reforming promoted by a Co-Pt catalyst in a Pd-based membrane reactor. <i>Renewable Energy</i> , 2018 , 119, 834-843	8.1	42
188	CFD analysis of Pd-Ag membrane reactor performance during ethylbenzene dehydrogenation process. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 7675-7683	6.7	28
187	Fabrication & performance study of a palladium on alumina supported membrane reactor: Natural gas steam reforming, a case study. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 7713-7721	6.7	17
186	The evaluation of methane mixed reforming reaction in an industrial membrane reformer for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 15321-15329	6.7	11
185	Design of microfluidic bioreactors: Transport regimes. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018 , 13, e2238	1.3	1
184	Hybrid and Inorganic Membranes for CO ₂ /H ₂ Separation Process 2018 , 289-305		1
183	Advances in Methanol Production and Utilization, with Particular Emphasis toward Hydrogen Generation via Membrane Reactor Technology. <i>Membranes</i> , 2018 , 8,	3.8	52
182	Progress in Methanol Steam Reforming Modelling via Membrane Reactors Technology. <i>Membranes</i> , 2018 , 8,	3.8	10
181	Theoretical evaluation of PdAg membrane reactor performance during biomass steam gasification for hydrogen production using CFD method. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11719-11730	6.7	15
180	New PEEK-WC and PLA membranes for H ₂ separation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22138-22148	6.7	16
179	Selective membrane application for the industrial one-step DME production process fed by CO ₂ rich streams: Modeling and simulation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 6771-6786	6.7	39
178	H ₂ production from bioalcohols and biomethane steam reforming in membrane reactors 2017 , 321-344		3
177	CFD analysis of a hybrid sorption-enhanced membrane reactor for hydrogen production during WGS reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 26914-26923	6.7	31
176	Glycerol Production and Transformation: A Critical Review with Particular Emphasis on Glycerol Reforming Reaction for Producing Hydrogen in Conventional and Membrane Reactors. <i>Membranes</i> , 2017 , 7,	3.8	76
175	Separation Theory of Silica Membranes 2017 , 65-95		
174	Modeling of Silica Membranes 2017 , 135-153		2

173	Silica Membranes Application for Hydrogen Separation 2017 , 243-264		1
172	The oncoming energy vector: Hydrogen produced in Pd-composite membrane reactor via bioethanol reforming over Ni/CeO ₂ catalyst. <i>Catalysis Today</i> , 2016 , 259, 368-375	5.3	45
171	Membrane Reactor: An Integrated Membrane + Reaction System 2016 , 231-253		4
170	Advances on methane steam reforming to produce hydrogen through membrane reactors technology: A review. <i>Catalysis Reviews - Science and Engineering</i> , 2016 , 58, 1-35	12.6	182
169	Theoretical study of hydrogen production using inorganic membrane reactors during WGS reaction. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8696-8705	6.7	27
168	Modelling Study of Palladium Membrane Reactor Performance during Methan Steam Reforming using CFD Method. <i>Chemical Product and Process Modeling</i> , 2016 , 11, 17-21	1.1	7
167	Investigation of Palladium Membrane Reactor Performance during Ethanol Steam Reforming using CFD Method. <i>Chemical Product and Process Modeling</i> , 2016 , 11, 51-55	1.1	12
166	Evaluation of dense Pd-Ag membrane reactor performance during methanol steam reforming in comparison with autothermal reforming using CFD analysis. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8745-8754	6.7	42
165	Membrane reactors for hydrogen production from biomass-derived oxygenates 2016 , 435-464		2
164	Supported Pd-Au Membrane Reactor for Hydrogen Production: Membrane Preparation, Characterization and Testing. <i>Molecules</i> , 2016 , 21,	4.8	23
163	Pure Hydrogen Production in Membrane Reactor with Mixed Reforming Reaction by Utilizing Waste Gas: A Case Study. <i>Processes</i> , 2016 , 4, 33	2.9	14
162	Membranes for IGCC Power Plants 2016 , 256-283		
161	Membrane Reactors 2016 , 1-21		1
160	Structured Catalysts and Support for Membrane Reactors 2016 , 37-58		
159	Elements of Reactor Design and Development of Process Schemes for Membrane Reactors 2016 , 59-74		
158	Ceramic Membrane Reactors 2016 , 138-162		1
157	Solar Membrane Reactor 2016 , 307-341		
156	Membrane reactors for the conversion of methanol and ethanol to hydrogen 2015 , 187-208		4

155	CuO/ZnO catalysts for methanol steam reforming: The role of the support polarity ratio and surface area. <i>Applied Catalysis B: Environmental</i> , 2015 , 174-175, 67-76	21.8	83
154	Single-stage hydrogen production and separation from fossil fuels using micro- and macromembrane reactors 2015 , 445-468		4
153	Water gas shift reaction in membrane reactors: Theoretical investigation by artificial neural networks model and experimental validation. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 5897-5906	6.7	26
152	Membrane reactors for steam reforming of glycerol and acetic acid to produce hydrogen 2015 , 249-266		3
151	Membrane reactors for methane steam reforming (MSR) 2015 , 31-59		9
150	Water gas shift membrane reactors 2015 , 3-29		7
149	Hydrogen production via silica membrane reactor during the methanol steam reforming process: experimental study. <i>RSC Advances</i> , 2015 , 5, 95823-95832	3.7	30
148	Performance Assessment of Water Gas Shift Membrane Reactors by a Two-dimensional Model. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2015 , 37, 2174-2182	1.6	2
147	A simulation study on methanol steam reforming in the silica membrane reactor for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3909-3918	6.7	35
146	Model biogas steam reforming in a thin Pd-supported membrane reactor to generate clean hydrogen for fuel cells. <i>Journal of Power Sources</i> , 2015 , 273, 25-32	8.9	55
145	Modeling study of silica membrane performance for hydrogen separation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2015 , 10, 781-790	1.3	21
144	Pure Hydrogen Production via Ethanol Steam Reforming Reaction over a Novel Pt-Co Based Catalyst in a Dense Pd-Ag Membrane Reactor (An Experimental Study). <i>International Journal of Membrane Science and Technology</i> , 2015 , 2, 5-14	0.5	5
143	Hydrogen Production for PEM Fuel Cells. <i>Biofuels and Biorefineries</i> , 2015 , 339-356	0.3	2
142	Methanol steam reforming in an Al ₂ O ₃ supported thin Pd-layer membrane reactor over Cu/ZnO/Al ₂ O ₃ catalyst. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 18702-18710	6.7	42
141	Methanol steam reforming for hydrogen generation via conventional and membrane reactors: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 29, 355-368	16.2	289
140	Perovskite membrane reactors: fundamentals and applications for oxygen production, syngas production and hydrogen processing 2014 , 182-217		5
139	Hydrogen production using inorganic membrane reactors 2014 , 283-316		2
138	Membrane processes for biofuel separation: an introduction 2014 , 65-103		4

137	Methane membrane steam reforming: Heat duty assessment. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4761-4770	6.7	24
136	Biomedical and biotechnological applications of chemical engineering methodologies. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014 , 9, 317-317	1.3	
135	Membrane technologies for the storage as methane of energy generated by wind power and other renewable sources 2014 , 365-378		1
134	Surface modification of alumina support in synthesis of silica membrane for hydrogen purification. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 18585-18591	6.7	24
133	Performance and Long-Term Stability of Pd/PSS and Pd/Al ₂ O ₃ Membranes for Hydrogen Separation. <i>Membranes</i> , 2014 , 4, 143-62	3.8	42
132	Sequencing batch reactors (SBRs) for BioH ₂ production: Reactor operation criteria. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4863-4869	6.7	10
131	Evaluation of silica membrane reactor performance for hydrogen production via methanol steam reforming: Modeling study. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 16698-16709	6.7	31
130	H ₂ production in silica membrane reactor via methanol steam reforming: Modeling and HAZOP analysis. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 10315-10326	6.7	32
129	H ₂ production by low pressure methanol steam reforming in a dense Pd-Ag membrane reactor in co-current flow configuration: Experimental and modeling analysis. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 16685-16697	6.7	49
128	Membrane contactors: fundamentals, membrane materials and key operations 2013 , 54-106		2
127	Proton conducting membranes based on sulfonated PEEK-WC polymer for PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 16642-16648	6.7	8
126	Inorganic membrane reactors for hydrogen production: an overview with particular emphasis on dense metallic membrane materials 2013 , 42-148		8
125	Alternatives to palladium in membranes for hydrogen separation: nickel, niobium and vanadium alloys, ceramic supports for metal alloys and porous glass membranes 2013 , 183-217		4
124	Palladium-based composite membranes for hydrogen separation in membrane reactors 2013 , 149-182		2
123	Porous ceramic membranes for membrane reactors 2013 , 298-336		9
122	Mathematical modelling of membrane reactors: overview of strategies and applications for the modelling of a hydrogen-selective membrane reactor 2013 , 435-463		1
121	Carbon-based membranes for membrane reactors 2013 , 370-400		1
120	Pd-based membrane reactors for producing ultra pure hydrogen: Oxidative reforming of bio-ethanol. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 701-707	6.7	33

119	Electrochemical characterization of sulfonated PEEK-WC membranes for PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 551-557	6.7	10
118	Integrating different membrane operations and combining membranes with conventional separation techniques in industrial processes 2013 , 296-343		2
117	Membrane Reactors, Applications 2013 , 1		
116	Design and engineering of metallic membranes for on-board steam reforming of biofuels in transport applications 2013 , 681-727		
115	Innovative Solar Technology: CSP Plants for Combined Production of Hydrogen and Electricity 2013 , 25-49		2
114	Process Intensification in the Chemical Industry: A Review 2013 , 95-118		3
113	Process Intensification in the Chemical and Petrochemical Industry 2013 , 119-151		4
112	Hydrogen production from bio-ethanol steam reforming reaction in a Pd/PSS membrane reactor. <i>Catalysis Today</i> , 2012 , 193, 42-48	5.3	63
111	Performance of a Pd/PSS membrane reactor to produce high purity hydrogen via WGS reaction. <i>Catalysis Today</i> , 2012 , 193, 87-94	5.3	39
110	Fabrication variables affecting the structure and properties of supported carbon molecular sieve membranes for hydrogen separation. <i>Journal of Membrane Science</i> , 2012 , 415-416, 288-297	9.6	51
109	Production of enriched methane by a molten-salt concentrated solar power plant coupled with a steam reforming process: An LCA study. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 11556-11561	6.7	12
108	The contribution of chemical engineering in the biotechnology and biomedical fields. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012 , 7, S253-S253	1.3	
107	Carbon molecular sieve membranes supported on non-modified ceramic tubes for hydrogen separation in membrane reactors. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13536-13544	6.7	62
106	Sulfonated PEEK-based polymers in PEMFC and DMFC applications: A review. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15241-15255	6.7	173
105	Performance Assessment of Water Gas Shift Membrane Reactors by a Two-dimensional Model. <i>Computer Aided Chemical Engineering</i> , 2012 , 610-614	0.6	3
104	Simulation of Water Gas Shift Membrane Reactors by a Two-dimensional Model. <i>Computer Aided Chemical Engineering</i> , 2011 , 29, 1643-1647	0.6	3
103	Hydrogen production from ethanol via inorganic membrane reactors technology: a review. <i>Catalysis Science and Technology</i> , 2011 , 1, 366	5.5	59
102	Hydrogen production for PEM fuel cell by gas phase reforming of glycerol as byproduct of bio-diesel. The use of a Pd/Ag membrane reactor at middle reaction temperature. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 3827-3834	6.7	57

101	Methane steam reforming in a PdAg membrane reformer: An experimental study on reaction pressure influence at middle temperature. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 1531-1539	6.7	70
100	Ethanol steam reforming reaction in a porous stainless steel supported palladium membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 2029-2037	6.7	59
99	Fundamental membrane processes, science and engineering 2011 , 3-21		1
98	Membranes for hydrocarbon fuel processing and separation 2011 , 295-338		2
97	Zeolite Membrane Reactors 2011 , 243-273		3
96	Introduction & A Review of Membrane Reactors 2011 , 1-61		16
95	Metallic Membranes Prepared by Cold Rolling and Diffusion Welding 2011 , 155-167		
94	Nanostructured Perovskites for the Fabrication of Thin Ceramic Membranes and Related Phenomena 2011 , 201-225		3
93	Metal Supported and Laminated Pd-Based Membranes 2011 , 275-287		
92	PVD Techniques for Metallic Membrane Reactors 2011 , 289-314		
91	Membranes Prepared via Electroless Plating 2011 , 315-333		1
90	Membranes Prepared via Molecular Layering Method 2011 , 357-369		2
89	Silica Membranes Preparation by Chemical Vapour Deposition and Characteristics 2011 , 335-356		1
88	Solvated Metal Atoms in the Preparation of Catalytic Membranes 2011 , 371-380		2
87	Inorganic membranes for pre-combustion carbon dioxide (CO ₂) capture 2011 , 184-213		6
86	Pd-based Selective Membrane State-of-the-Art 2011 , 21-55		28
85	Water Gas Shift Reaction in Pd-Based Membrane Reactors. <i>Advances in Science and Technology</i> , 2010 , 72, 99-104	0.1	7
84	Advanced carbon dioxide (CO ₂) gas separation membrane development for power plants 2010 , 143-186		1

83	The water-gas shift reaction: from conventional catalytic systems to Pd-based membrane reactors—review. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2010 , 5, 111-137	1.3	151
82	Production of hydrogen via glycerol steam reforming in a Pd-Ag membrane reactor over Co-Al ₂ O ₃ catalyst. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2010 , 5, 138-145	1.3	36
81	Solar membrane natural gas steam-reforming process: evaluation of reactor performance. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2010 , 5, 179-190	1.3	13
80	A simplified method for limit conversion calculation in membrane reactors. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2010 , 5, 226-234	1.3	3
79	An experimental study on bio-ethanol steam reforming in a catalytic membrane reactor. Part II: Reaction pressure, sweep factor and WHSV effects. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3159-3164	6.7	59
78	An experimental study on bio-ethanol steam reforming in a catalytic membrane reactor. Part I: Temperature and sweep-gas flow configuration effects. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3170-3177	6.7	64
77	H ₂ production by low pressure methane steam reforming in a Pd-Ag membrane reactor over a Ni-based catalyst: Experimental and modeling. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 11514-11524	6.7	78
76	Sulfonation of PEEK-WC polymer via chloro-sulfonic acid for potential PEM fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 12688-12695	6.7	34
75	Partial oxidation of ethanol in a membrane reactor for high purity hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 12626-12634	6.7	25
74	Counter-current membrane reactor for WGS process: Membrane design. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 12609-12617	6.7	39
73	A Review on Patents for Hydrogen Production Using Membrane Reactors. <i>Recent Patents on Chemical Engineering</i> , 2010 , 2, 207-222		3
72	Ethanol steam reforming kinetics of a Pd-Ag membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 4747-4754	6.7	29
71	Oxidative steam reforming of ethanol over Ru-Al ₂ O ₃ catalyst in a dense Pd-Ag membrane reactor to produce hydrogen for PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 8558-8565	6.7	47
70	Thermo and electrochemical characterization of sulfonated PEEK-WC membranes and Krytox-Si-Nafion® composite membranes. <i>Desalination</i> , 2009 , 235, 293-305	10.3	18
69	Synthesis, Characterization, and Applications of Palladium Membranes. <i>Membrane Science and Technology</i> , 2008 , 255-323		76
68	Hydrogen Production by Ethanol Steam Reforming: Experimental Study of a Pd-Ag Membrane Reactor and Traditional Reactor Behaviour. <i>International Journal of Chemical Reactor Engineering</i> , 2008 , 6,	1.2	11
67	Methanol oxidative dehydrogenation on nanostructured vanadium-containing composite membranes. <i>Journal of Membrane Science</i> , 2008 , 317, 88-95	9.6	6
66	Low temperature ethanol steam reforming in a Pd-Ag membrane reactor Part 1: Ru-based catalyst. <i>Journal of Membrane Science</i> , 2008 , 308, 250-257	9.6	76

65	TiNiPd dense membranesThe effect of the gas mixtures on the hydrogen permeation. <i>Journal of Membrane Science</i> , 2008 , 310, 44-50	9.6	24
64	Methanol steam reforming in a dense PdAg membrane reactor: The pressure and WHSV effects on CO-free H ₂ production. <i>Journal of Membrane Science</i> , 2008 , 323, 235-240	9.6	49
63	The effect of heat-flux profile and of other geometric and operating variables in designing industrial membrane methane steam reformers. <i>Chemical Engineering Journal</i> , 2008 , 138, 442-451	14.7	29
62	Hydrogen Production Using Pd-based Membrane Reactors for Fuel Cells. <i>Topics in Catalysis</i> , 2008 , 51, 107-122	2.3	57
61	CO-Free Hydrogen Production by Ethanol Steam Reforming in a PdAg Membrane Reactor. <i>Fuel Cells</i> , 2008 , 8, 62-68	2.9	38
60	Acetic acid steam reforming in a PdAg membrane reactor: The effect of the catalytic bed pattern. <i>Journal of Membrane Science</i> , 2008 , 311, 46-52	9.6	57
59	Hydrogen production by methanol steam reforming carried out in membrane reactor on Cu/Zn/Mg-based catalyst. <i>Catalysis Today</i> , 2008 , 137, 17-22	5.3	87
58	PdAg membrane reactor for steam reforming reactions: A comparison between different fuels. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1671-1687	6.7	85
57	Design and process study of Pd membrane reactors. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 5098-5105	6.7	93
56	CO-free hydrogen production by steam reforming of acetic acid carried out in a PdAg membrane reactor: The effect of co-current and counter-current mode. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4091-4096	6.7	50
55	Co-current and counter-current configurations for ethanol steam reforming in a dense PdAg membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6165-6171	6.7	43
54	Methanol steam reforming reaction in a PdAg membrane reactor for CO-free hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 5583-5588	6.7	70
53	PdAg tubular membrane reactors for methane dry reforming: A reactive method for CO ₂ consumption and H ₂ production. <i>Journal of Membrane Science</i> , 2008 , 317, 96-105	9.6	63
52	Low-temperature ethanol steam reforming in a PdAg membrane reactorPart 2. Pt-based and Ni-based catalysts and general comparison. <i>Journal of Membrane Science</i> , 2008 , 308, 258-263	9.6	40
51	Methanol as an Energy Source and/or Energy Carrier in Membrane Processes. <i>Separation and Purification Reviews</i> , 2007 , 36, 175-202	7.3	22
50	The effect of mixture gas on hydrogen permeation through a palladium membrane: Experimental study and theoretical approach. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 1837-1845	6.7	78
49	Methanol and ethanol steam reforming in membrane reactors: An experimental study. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 1201-1210	6.7	89
48	New TiNi dense membranes with low palladium content. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 4016-4022	6.7	21

47	Integrated gasification gas combined cycle plant with membrane reactors: Technological and economical analysis. <i>Energy Conversion and Management</i> , 2007 , 48, 2680-2693	10.6	62
46	The effect of the hydrogen flux pressure and temperature dependence factors on the membrane reactor performances. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 4052-4058	6.7	35
45	A theoretical analysis of methanol synthesis from CO ₂ and H ₂ in a ceramic membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 5050-5058	6.7	63
44	An experimental investigation on methanol steam reforming with oxygen addition in a flat Pd/Ag membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 1615-1622	6.7	53
43	Steam Reforming of Methane in a Membrane Reactor: An Industrial Case Study. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 2994-3000	3.9	70
42	Methanol oxidative dehydrogenation on nanostructured composite membranes. <i>Desalination</i> , 2006 , 200, 692-694	10.3	5
41	Pd membrane reactor design. <i>Desalination</i> , 2006 , 200, 676-678	10.3	5
40	The pressure effect on ethanol steam reforming in membrane reactor: experimental study. <i>Desalination</i> , 2006 , 200, 671-672	10.3	3
39	Co-current and counter-current modes for methanol steam reforming membrane reactor: Experimental study. <i>Catalysis Today</i> , 2006 , 118, 237-245	5.3	59
38	Sulfonated PEEK-WC membranes for proton-exchange membrane fuel cell: Effect of the increasing level of sulfonation on electrochemical performances. <i>Journal of Membrane Science</i> , 2006 , 281, 377-385	9.6	41
37	Co-current and counter-current modes for methanol steam reforming membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 2243-2249	6.7	34
36	Long-term tests of Pd/Ag thin wall permeator tube. <i>Journal of Membrane Science</i> , 2006 , 284, 393-397	9.6	76
35	Hydrogen production from methanol by oxidative steam reforming carried out in a membrane reactor. <i>Catalysis Today</i> , 2005 , 104, 251-259	5.3	50
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