## Angelo B Basile

## List of Publications by Citations

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226 papers 6,757 citations

50 h-index

g-index

258 ext. papers

7,391 ext. citations

**6.1** avg, IF

**6.13** L-index

#	Paper	IF	Citations
226	Methanol steam reforming for hydrogen generation via conventional and membrane reactors: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 29, 355-368	16.2	289
225	Advances on methane steam reforming to produce hydrogen through membrane reactors technology: A review. <i>Catalysis Reviews - Science and Engineering</i> , <b>2016</b> , 58, 1-35	12.6	182
224	Sulfonated PEEK-based polymers in PEMFC and DMFC applications: A review. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 15241-15255	6.7	173
223	The water-gas shift reaction: from conventional catalytic systems to Pd-based membrane reactors review. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2010</b> , 5, 111-137	1.3	151
222	A simulation study of the steam reforming of methane in a dense tubular membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2004</b> , 29, 611-617	6.7	149
221	An experimental study of CO2 hydrogenation into methanol involving a zeolite membrane reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2004</b> , 43, 1029-1036	3.7	134
220	An analysis of the performance of membrane reactors for the watergas shift reaction using gas feed mixtures. <i>Catalysis Today</i> , <b>2000</b> , 56, 53-64	5.3	118
219	Experimental Study of the Methane Steam Reforming Reaction in a Dense Pd/Ag Membrane Reactor. <i>Industrial &amp; Dense Pd/Ag Membrane Reactor</i> .	3.9	116
218	An economic feasibility study for water gas shift membrane reactor. <i>Journal of Membrane Science</i> , <b>2001</b> , 181, 21-27	9.6	113
217	PdAg membrane reactors for water gas shift reaction. <i>Chemical Engineering Journal</i> , <b>2003</b> , 93, 23-30	14.7	112
216	Experimental and simulation of both Pd and Pd/Ag for a water gas shift membrane reactor. <i>Separation and Purification Technology</i> , <b>2001</b> , 25, 549-571	8.3	105
215	Design and process study of Pd membrane reactors. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 5098-5105	6.7	93
214	Methanol and ethanol steam reforming in membrane reactors: An experimental study. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 1201-1210	6.7	89
213	Hydrogen production by methanol steam reforming carried out in membrane reactor on Cu/Zn/Mg-based catalyst. <i>Catalysis Today</i> , <b>2008</b> , 137, 17-22	5.3	87
212	PdAg membrane reactor for steam reforming reactions: A comparison between different fuels. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 1671-1687	6.7	85
211	CuO/ZnO catalysts for methanol steam reforming: The role of the support polarity ratio and surface area. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 174-175, 67-76	21.8	83
210	Membrane reactor for water gas shift reaction. Separation and Purification Technology, <b>1996</b> , 10, 243-2	54	81

209	The partial oxidation of methane to syngas in a palladium membrane reactor: simulation and experimental studies. <i>Catalysis Today</i> , <b>2001</b> , 67, 65-75	5.3	79	
208	H2 production by low pressure methane steam reforming in a PdAg membrane reactor over a Ni-based catalyst: Experimental and modeling. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 1151	4 <sup>6</sup> 77152	24 <sup>78</sup>	
207	The effect of mixture gas on hydrogen permeation through a palladium membrane: Experimental study and theoretical approach. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 1837-1845	6.7	78	
206	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> , <b>2017</b> , 7,	3.8	76	
205	Synthesis, Characterization, and Applications of Palladium Membranes. <i>Membrane Science and Technology</i> , <b>2008</b> , 255-323		76	
204	Low temperature ethanol steam reforming in a Pd-Ag membrane reactorPart 1: Ru-based catalyst. <i>Journal of Membrane Science</i> , <b>2008</b> , 308, 250-257	9.6	76	
203	Long-term tests of PdAg thin wall permeator tube. <i>Journal of Membrane Science</i> , <b>2006</b> , 284, 393-397	9.6	76	
202	A dense Pd/Ag membrane reactor for methanol steam reforming: Experimental study. <i>Catalysis Today</i> , <b>2005</b> , 104, 244-250	5.3	74	
201	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> , <b>2011</b> , 36, 1531-153	3 <b>6</b> .7	70	
200	Methanol steam reforming reaction in a PdAg membrane reactor for CO-free hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 5583-5588	6.7	70	
199	Steam Reforming of Methane in a Membrane Reactor: An Industrial Case Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 2994-3000	3.9	70	
198	A study on catalytic membrane reactors for water gas shift reaction. <i>Separation and Purification Technology</i> , <b>1996</b> , 10, 53-61		68	
197	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> , <b>2010</b> , 35, 3170-3177	6.7	64	
196	Hydrogen production from bio-ethanol steam reforming reaction in a Pd/PSS membrane reactor. <i>Catalysis Today</i> , <b>2012</b> , 193, 42-48	5.3	63	
195	A theoretical analysis of methanol synthesis from CO2 and H2 in a ceramic membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 5050-5058	6.7	63	
194	PdAg tubular membrane reactors for methane dry reforming: A reactive method for CO2 consumption and H2 production. <i>Journal of Membrane Science</i> , <b>2008</b> , 317, 96-105	9.6	63	
193	Carbon molecular sieve membranes supported on non-modified ceramic tubes for hydrogen separation in membrane reactors. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 13536-13544	6.7	62	
192	Integrated gasification gas combined cycle plant with membrane reactors: Technological and economical analysis. <i>Energy Conversion and Management</i> , <b>2007</b> , 48, 2680-2693	10.6	62	

191	Hydrogen production from ethanol via inorganic membrane reactors technology: a review. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 366	5.5	59
190	Ethanol steam reforming reaction in a porous stainless steel supported palladium membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 2029-2037	6.7	59
189	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> , <b>2010</b> , 35, 3159-3164	6.7	59
188	Co-current and counter-current modes for methanol steam reforming membrane reactor: Experimental study. <i>Catalysis Today</i> , <b>2006</b> , 118, 237-245	5.3	59
187	Hydrogen production for PEM fuel cell by gas phase reforming of glycerol as byproduct of bio-diesel. The use of a PdAg membrane reactor at middle reaction temperature. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 3827-3834	6.7	57
186	Hydrogen Production Using Pd-based Membrane Reactors for Fuel Cells. <i>Topics in Catalysis</i> , <b>2008</b> , 51, 107-122	2.3	57
185	Acetic acid steam reforming in a PdAg membrane reactor: The effect of the catalytic bed pattern. Journal of Membrane Science, <b>2008</b> , 311, 46-52	9.6	57
184	Model biogas steam reforming in a thin Pd-supported membrane reactor to generate clean hydrogen for fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 25-32	8.9	55
183	An experimental investigation on methanol steam reforming with oxygen addition in a flat PdAg membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 1615-1622	6.7	53
182	Hydrogen Recovery from Methanol Steam Reforming in a Dense Membrane Reactor: Simulation Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 2420-2432	3.9	52
181	Advances in Methanol Production and Utilization, with Particular Emphasis toward Hydrogen Generation via Membrane Reactor Technology. <i>Membranes</i> , <b>2018</b> , 8,	3.8	52
180	Fabrication variables affecting the structure and properties of supported carbon molecular sieve membranes for hydrogen separation. <i>Journal of Membrane Science</i> , <b>2012</b> , 415-416, 288-297	9.6	51
179	On the coupling effect in pervaporation. <i>Journal of Membrane Science</i> , <b>1993</b> , 81, 43-55	9.6	51
178	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> , <b>2008</b> , 33, 4091-4096	6.7	50
177	Hydrogen production from methanol by oxidative steam reforming carried out in a membrane reactor. <i>Catalysis Today</i> , <b>2005</b> , 104, 251-259	5.3	50
176	H2 production by low pressure methanol steam reforming in a dense PdAg membrane reactor in co-current flow configuration: Experimental and modeling analysis. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 16685-16697	6.7	49
175	Methanol steam reforming in a dense PdAg membrane reactor: The pressure and WHSV effects on CO-free H2 production. <i>Journal of Membrane Science</i> , <b>2008</b> , 323, 235-240	9.6	49
174	Methanol Production and Applications: An Overview <b>2018</b> , 3-28		48

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173	Oxidative steam reforming of ethanol over RuAl2O3 catalyst in a dense PdAg membrane reactor to produce hydrogen for PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 8558-8565	6.7	47
172	An Ru-based catalytic membrane reactor for dry reforming of methanells catalytic performance compared with tubular packed bed reactors. <i>Catalysis Today</i> , <b>2003</b> , 82, 57-65	5.3	47
171	The oncoming energy vector: Hydrogen produced in Pd-composite membrane reactor via bioethanol reforming over Ni/CeO 2 catalyst. <i>Catalysis Today</i> , <b>2016</b> , 259, 368-375	5.3	45
170	Co-current and counter-current modes for water gas shift membrane reactor. <i>Catalysis Today</i> , <b>2003</b> , 82, 275-281	5.3	45
169	Co-current and counter-current configurations for ethanol steam reforming in a dense PdAg membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6165-6171	6.7	43
168	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> , <b>2018</b> , 119, 834-843	8.1	42
167	Evaluation of dense PdAg membrane reactor performance during methanol steam reforming in comparison with autothermal reforming using CFD analysis. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 8745-8754	6.7	42
166	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> , <b>2014</b> , 39, 18702-18710	6.7	42
165	Performance and Long-Term Stability of Pd/PSS and Pd/Al2O3 Membranes for Hydrogen Separation. <i>Membranes</i> , <b>2014</b> , 4, 143-62	3.8	42
164	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> , <b>2006</b> , 281, 377-385	<sub>5</sub> 9.6	41
163	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> , <b>2008</b> , 308, 258-263	9.6	40
162	Selective membrane application for the industrial one-step DME production process fed by CO2 rich streams: Modeling and simulation. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 6771-6786	6.7	39
161	Performance of a Pd/PSS membrane reactor to produce high purity hydrogen via WGS reaction. <i>Catalysis Today</i> , <b>2012</b> , 193, 87-94	5.3	39
160	Counter-current membrane reactor for WGS process: Membrane design. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 12609-12617	6.7	39
159	CO-Free Hydrogen Production by Ethanol Steam Reforming in a PdAg Membrane Reactor. <i>Fuel Cells</i> , <b>2008</b> , 8, 62-68	2.9	38
158	HIGH TEMPERATURE MEMBRANE REACTORS AND INTEGRATED MEMBRANE OPERATIONS.  Reviews in Chemical Engineering, 2002, 18,	5	38
157	Production of hydrogen via glycerol steam reforming in a Pd-Ag membrane reactor over Co-Al2O3 catalyst. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2010</b> , 5, 138-145	1.3	36
156	A simulation study on methanol steam reforming in the silica membrane reactor for hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 3909-3918	6.7	35

155	The effect of the hydrogen flux pressure and temperature dependence factors on the membrane reactor performances. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 4052-4058	6.7	35
154	Sulfonation of PEEK-WC polymer via chloro-sulfonic acid for potential PEM fuel cell applications.  International Journal of Hydrogen Energy, <b>2010</b> , 35, 12688-12695	6.7	34
153	Co-current and counter-current modes for methanol steam reforming membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 2243-2249	6.7	34
152	An experimental study of multilayered composite palladium membrane reactors for partial oxidation of methane to syngas. <i>Catalysis Today</i> , <b>2001</b> , 67, 55-64	5.3	34
151	Membrane integrated system in the fusion reactor fuel cycle. <i>Catalysis Today</i> , <b>1995</b> , 25, 321-326	5.3	34
150	Pd-based membrane reactors for producing ultra pure hydrogen: Oxidative reforming of bio-ethanol. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 701-707	6.7	33
149	Hydrogen production as a green fuel in silica membrane reactor: Experimental analysis and artificial neural network modeling. <i>Fuel</i> , <b>2018</b> , 222, 114-124	7.1	32
148	Hydrogen production by a Pd Ag membrane reactor during glycerol steam reforming: ANN modeling study. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 7722-7730	6.7	32
147	H2 production in silica membrane reactor via methanol steam reforming: Modeling and HAZOP analysis. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 10315-10326	6.7	32
146	Evaluation of silica membrane reactor performance for hydrogen production via methanol steam reforming: Modeling study. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 16698-16709	6.7	31
145	CFD analysis of a hybrid sorption-enhanced membrane reactor for hydrogen production during WGS reaction. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 26914-26923	6.7	31
144	Recovery of pyridine from aqueous solution by membrane pervaporation. <i>Journal of Membrane Science</i> , <b>1993</b> , 80, 309-318	9.6	31
143	Hydrogen production via silica membrane reactor during the methanol steam reforming process: experimental study. <i>RSC Advances</i> , <b>2015</b> , 5, 95823-95832	3.7	30
142	Performance evaluation of graphene oxide (GO) nanocomposite membrane for hydrogen separation: Effect of dip coating sol concentration. <i>Separation and Purification Technology</i> , <b>2018</b> , 200, 169-176	8.3	30
141	Synthesis and characterization of a mordenite membrane on an <code>Al2O3</code> tubular support. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 1131-1137		30
140	Gas permeability of polyphosphazene membranes. Separation and Purification Technology, <b>1991</b> , 5, 252	2-258	30
139	Ethanol steam reforming kinetics of a PdAg membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 4747-4754	6.7	29
138	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> , <b>2008</b> , 138, 442-451	14.7	29

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137	Membrane reactor for the production of hydrogen and higher hydrocarbons from methane over Ru/Al2O3 catalyst. <i>Chemical Engineering Journal</i> , <b>2003</b> , 93, 31-39	14.7	29
136	Performance evaluation of Pd Ag membrane reactor in glycerol steam reforming process: Development of the CFD model. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 1000-1009	6.7	29
135	CFD analysis of Pd-Ag membrane reactor performance during ethylbenzene dehydrogenation process. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 7675-7683	6.7	28
134	High temperature proton exchange membrane fuel cell using a sulfonated membrane obtained via H2SO4 treatment of PEEK-WC. <i>Catalysis Today</i> , <b>2005</b> , 104, 213-218	5.3	28
133	Pd-based Selective Membrane State-of-the-Art <b>2011</b> , 21-55		28
132	Theoretical study of hydrogen production using inorganic membrane reactors during WGS reaction.  International Journal of Hydrogen Energy, 2016, 41, 8696-8705	6.7	27
131	Water gas shift reaction in membrane reactors: Theoretical investigation by artificial neural networks model and experimental validation. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 5897-	59 <b>0</b> 6	26
130	Partial oxidation of ethanol in a membrane reactor for high purity hydrogen production.  International Journal of Hydrogen Energy, 2010, 35, 12626-12634	6.7	25
129	Membrane separation technologies: their application to the fusion reactor fuel cycle. <i>Fusion Engineering and Design</i> , <b>1993</b> , 22, 257-263	1.7	25
128	Methane membrane steam reforming: Heat duty assessment. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 4761-4770	6.7	24
127	Surface modification of Halumina support in synthesis of silica membrane for hydrogen purification. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 18585-18591	6.7	24
126	TiNiPd dense membranesThe effect of the gas mixtures on the hydrogen permeation. <i>Journal of Membrane Science</i> , <b>2008</b> , 310, 44-50	9.6	24
125	Supported Pd-Au Membrane Reactor for Hydrogen Production: Membrane Preparation, Characterization and Testing. <i>Molecules</i> , <b>2016</b> , 21,	4.8	23
124	Methanol as an Energy Source and/or Energy Carrier in Membrane Processes. <i>Separation and Purification Reviews</i> , <b>2007</b> , 36, 175-202	7.3	22
123	Modeling study of silica membrane performance for hydrogen separation. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2015</b> , 10, 781-790	1.3	21
122	New Ti <b>N</b> i dense membranes with low palladium content. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 4016-4022	6.7	21
121	Catalytic membrane reactors for tritium recovery from tritiated water in the ITER fuel cycle. <i>Fusion Engineering and Design</i> , <b>2000</b> , 49-50, 953-958	1.7	21
120	Biopolymers for sustainable membranes in CO2 separation: a review. <i>Fuel Processing Technology</i> , <b>2021</b> , 213, 106643	7.2	21

119	Thermo and electrochemical characterization of sulfonated PEEKWC membranes and Krytox-Si-Nafion composite membranes. <i>Desalination</i> , <b>2009</b> , 235, 293-305	10.3	18
118	High temperature membrane reactors for clean productions. <i>Clean Technologies and Environmental Policy</i> , <b>2000</b> , 2, 0179-0186	4.3	18
117	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> , <b>2018</b> , 43, 7713-7721	6.7	17
116	New PEEK-WC and PLA membranes for H2 separation. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 22138-22148	6.7	16
115	Introduction 🖪 Review of Membrane Reactors <b>2011</b> , 1-61		16
114	Methane Conversion to Syngas in a Composite Palladium Membrane Reactor with Increasing Number of Pd Layers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 1703-1710	3.9	16
113	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> , <b>2020</b> , 199, 106273	7.2	15
112	Theoretical evaluation of PdAg membrane reactor performance during biomass steam gasification for hydrogen production using CFD method. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 11719-	1 <sup>6</sup> 730	15
111	Preparation of Polymeric Membranes Entrapping ECyclodextrins and Their Molecular Recognition of Naringin. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2003</b> , 47, 33-37		14
110	Pure Hydrogen Production in Membrane Reactor with Mixed Reforming Reaction by Utilizing Waste Gas: A Case Study. <i>Processes</i> , <b>2016</b> , 4, 33	2.9	14
109	Experimental study on graphene-based nanocomposite membrane for hydrogen purification: Effect of temperature and pressure. <i>Catalysis Today</i> , <b>2019</b> , 330, 16-23	5.3	13
108	Solar membrane natural gas steam-reforming process: evaluation of reactor performance. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2010</b> , 5, 179-190	1.3	13
107	Catalytic ceramic membrane reactor design for hydrogen separation from inert gas via oxidation. Journal of Membrane Science, <b>1995</b> , 104, 11-17	9.6	13
106	Composite catalytic membrane reactor analysis for the water gas shift reaction in the tritium fusion fuel cycle. <i>Fusion Engineering and Design</i> , <b>1995</b> , 30, 217-223	1.7	13
105	Experimental evaluation of graphene oxide/TiO2-alumina nanocomposite membranes performance for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 7479-7487	6.7	13
104	PLA Easy Fil IWhite-based membranes for CO2 separation <b>2019</b> , 9, 360-369		12
103	Investigation of Palladium Membrane Reactor Performance during Ethanol Steam Reforming using CFD Method. <i>Chemical Product and Process Modeling</i> , <b>2016</b> , 11, 51-55	1.1	12
102	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> , <b>2012</b> , 37, 11556-1156	5 <sup>6.7</sup>	12

101	The evaluation of methane mixed reforming reaction in an industrial membrane reformer for hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 15321-15329	6.7	11
100	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> , <b>2008</b> , 6,	1.2	11
99	Theoretical evaluation of various configurations of silica membrane reactor in methanol steam reforming using CFD method. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 7354-7363	6.7	11
98	Sequencing batch reactors (SBRs) for BioH2 production: Reactor operation criteria. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 4863-4869	6.7	10
97	Electrochemical characterization of sulfonated PEEK-WC membranes for PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 551-557	6.7	10
96	Partial Oxidation of Methane in a Catalytic Ruthenium Membrane Reactor. <i>Industrial &amp;</i> Engineering Chemistry Research, <b>2003</b> , 42, 2968-2974	3.9	10
95	Progress in Methanol Steam Reforming Modelling via Membrane Reactors Technology. <i>Membranes</i> , <b>2018</b> , 8,	3.8	10
94	Membrane reactors for methane steam reforming (MSR) <b>2015</b> , 31-59		9
93	Porous ceramic membranes for membrane reactors <b>2013</b> , 298-336		9
92	Proton conducting membranes based on sulfonated PEEK-WC polymer for PEMFCs. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 16642-16648	6.7	8
91	Inorganic membrane reactors for hydrogen production: an overview with particular emphasis on dense metallic membrane materials <b>2013</b> , 42-148		8
90	Progress in Modeling of Silica-Based Membranes and Membrane Reactors for Hydrogen Production and Purification. <i>ChemEngineering</i> , <b>2019</b> , 3, 2	2.6	8
89	Water gas shift membrane reactors <b>2015</b> , 3-29		7
88	Modelling Study of Palladium Membrane Reactor Performance during Methan Steam Reforming using CFD Method. <i>Chemical Product and Process Modeling</i> , <b>2016</b> , 11, 17-21	1.1	7
87	Water Gas Shift Reaction in Pd-Based Membrane Reactors. <i>Advances in Science and Technology</i> , <b>2010</b> , 72, 99-104	0.1	7
86	Polyorganophosphazene membranes: preparation and transport properties. <i>Desalination</i> , <b>1991</b> , 80, 181	-103	7
85	The performance evaluation of an industrial membrane reformer with catalyst-deactivation for a domestic methanol production plant. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 25730-25739	6.7	6
84	Hydrogen permeation and separation characteristics of a thin Pd-Au/Al2O3 membrane: The effect of the intermediate layer absence. <i>Catalysis Today</i> , <b>2019</b> , 330, 32-38	5.3	6

83	Inorganic membranes for pre-combustion carbon dioxide (CO 2) capture <b>2011</b> , 184-213		6
82	Methanol oxidative dehydrogenation on nanostructured vanadium-containing composite membranes. <i>Journal of Membrane Science</i> , <b>2008</b> , 317, 88-95	9.6	6
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