

Fausto Gallucci

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288
papers

7,237
citations

48
h-index

69
g-index

314
ext. papers

8,489
ext. citations

6.7
avg, IF

6.45
L-index

#	Paper	IF	Citations
288	Recent advances on membranes and membrane reactors for hydrogen production. <i>Chemical Engineering Science</i> , 2013 , 92, 40-66	4.4	459
287	A Search for Natural Hydrophobic Deep Eutectic Solvents Based on Natural Components. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2933-2942	8.3	156
286	A simulation study of the steam reforming of methane in a dense tubular membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2004 , 29, 611-617	6.7	149
285	An experimental study of CO ₂ hydrogenation into methanol involving a zeolite membrane reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004 , 43, 1029-1036	3.7	134
284	Experimental Study of the Methane Steam Reforming Reaction in a Dense Pd/Ag Membrane Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 928-933	3.9	116
283	An in-situ IR study on the adsorption of CO ₂ and H ₂ O on hydrotalcites. <i>Journal of CO₂ Utilization</i> , 2018 , 24, 228-239	7.6	113
282	Techno-economic assessment of membrane assisted fluidized bed reactors for pure H ₂ production with CO ₂ capture. <i>Energy Conversion and Management</i> , 2016 , 120, 257-273	10.6	95
281	Design and process study of Pd membrane reactors. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 5098-5105	6.7	93
280	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
279	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
278	Development of thin Pd/Ag supported membranes for fluidized bed membrane reactors including WGS related gases. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3506-3519	6.7	86
277	Pd/Ag 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
276	Theoretical comparison of packed bed and fluidized bed membrane reactors for methane reforming. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 7142-7150	6.7	82
275	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
274	Synthesis, Characterization, and Applications of Palladium Membranes. <i>Membrane Science and Technology</i> , 2008 , 255-323		76
273	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
272	Long-term tests of Pd/Ag thin wall permeator tube. <i>Journal of Membrane Science</i> , 2006 , 284, 393-397	9.6	76

271	A dense Pd/Ag membrane reactor for methanol steam reforming: Experimental study. <i>Catalysis Today</i> , 2005 , 104, 244-250	5.3	74
270	A novel reactor configuration for packed bed chemical-looping combustion of syngas. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 16, 1-12	4.2	70
269	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
268	Pure hydrogen production via autothermal reforming of ethanol in a fluidized bed membrane reactor: A simulation study. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 1659-1668	6.7	68
267	Integration of coal gasification and packed bed CLC for high efficiency and near-zero emission power generation. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 27, 28-41	4.2	67
266	Preparation and characterization of metallic supported thin Pd/Ag membranes for hydrogen separation. <i>Chemical Engineering Journal</i> , 2016 , 305, 182-190	14.7	63
265	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
264	Pd/Ag 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
263	A theoretical investigation of CLC in packed beds. Part 1: Particle model. <i>Chemical Engineering Journal</i> , 2011 , 167, 297-307	14.7	62
262	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
261	Autothermal Reforming of Methane with Integrated CO ₂ Capture in a Novel Fluidized Bed Membrane Reactor. Part 1: Experimental Demonstration. <i>Topics in Catalysis</i> , 2008 , 51, 133-145	2.3	62
260	Experimental study of steam methane reforming in a Pd-based fluidized bed membrane reactor. <i>Chemical Engineering Journal</i> , 2013 , 222, 307-320	14.7	60
259	Investigation of heat management for CLC of syngas in packed bed reactors. <i>Chemical Engineering Journal</i> , 2013 , 225, 174-191	14.7	59
258	Recent Advances in Pd-Based Membranes for Membrane Reactors. <i>Molecules</i> , 2017 , 22,	4.8	59
257	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
256	Recent Progress of Plasma-Assisted Nitrogen Fixation Research: A Review. <i>Processes</i> , 2018 , 6, 248	2.9	58
255	Comparison on process efficiency for CLC of syngas operated in packed bed and fluidized bed reactors. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 28, 65-78	4.2	57
254	Acetic acid steam reforming in a Pd/Ag membrane reactor: The effect of the catalytic bed pattern. <i>Journal of Membrane Science</i> , 2008 , 311, 46-52	9.6	57

253	A theoretical investigation of CLC in packed beds. Part 2: Reactor model. <i>Chemical Engineering Journal</i> , 2011 , 167, 369-376	14.7	56
252	Experimental Investigation of Chemical-Looping Combustion in Packed Beds: A Parametric Study. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 1968-1980	3.9	56
251	Synthesis of luminescent carbon quantum dots by microplasma process. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 140, 29-35	3.7	53
250	An experimental investigation on methanol steam reforming with oxygen addition in a flat PdAg membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 1615-1622	6.7	53
249	Real time chemical imaging of a working catalytic membrane reactor during oxidative coupling of methane. <i>Chemical Communications</i> , 2015 , 51, 12752-5	5.8	52
248	Hydrogen Recovery from Methanol Steam Reforming in a Dense Membrane Reactor: Simulation Study. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 2420-2432	3.9	52
247	PC-SAFT modeling of CO ₂ solubilities in hydrophobic deep eutectic solvents. <i>Fluid Phase Equilibria</i> , 2017 , 448, 94-98	2.5	50
246	Thermodynamic analysis of a membrane-assisted chemical looping reforming reactor concept for combined H ₂ production and CO ₂ capture. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4725-4738	6.7	50
245	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
244	Preparation and characterization of thin-film PdAg supported membranes for high-temperature applications. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 13463-13478	6.7	49
243	The generality of the standard 2D TFM approach in predicting bubbling fluidized bed hydrodynamics. <i>Powder Technology</i> , 2013 , 235, 735-746	5.2	49
242	Techno-economic assessment of different routes for olefins production through the oxidative coupling of methane (OCM): Advances in benchmark technologies. <i>Energy Conversion and Management</i> , 2017 , 154, 244-261	10.6	48
241	Ethanol steam reforming in a dense PdAg membrane reactor: A modelling work. Comparison with the traditional system. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 644-651	6.7	48
240	Determination of the Total Vapor Pressure of Hydrophobic Deep Eutectic Solvents: Experiments and Perturbed-Chain Statistical Associating Fluid Theory Modeling. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4047-4057	8.3	47
239	An Ru-based catalytic membrane reactor for dry reforming of methane: Its catalytic performance compared with tubular packed bed reactors. <i>Catalysis Today</i> , 2003 , 82, 57-65	5.3	47
238	Preparation and characterization of ceramic supported ultra-thin (~1 μm) Pd-Ag membranes. <i>Journal of Membrane Science</i> , 2017 , 528, 12-23	9.6	46
237	Co-current and counter-current modes for water gas shift membrane reactor. <i>Catalysis Today</i> , 2003 , 82, 275-281	5.3	45
236	Reactor design and operation strategies for a large-scale packed-bed CLC power plant with coal syngas. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 36, 34-50	4.2	44

235	Chemisorption working capacity and kinetics of CO ₂ and H ₂ O of hydrotalcite-based adsorbents for sorption-enhanced water-gas-shift applications. <i>Chemical Engineering Journal</i> , 2016 , 293, 9-23	14.7	44
234	Experimental Demonstration of a Novel Gas Switching Combustion Reactor for Power Production with Integrated CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 14241-14250	3.9	44
233	Syngas upgrading in a membrane reactor with thin Pd-alloy supported membrane. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10883-10893	6.7	43
232	Co-current and counter-current configurations for ethanol steam reforming in a dense Pd/Ag membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6165-6171	6.7	43
231	Investigation of the process operability windows for Ca-Cu looping for hydrogen production with CO ₂ capture. <i>Chemical Engineering Journal</i> , 2016 , 303, 73-88	14.7	43
230	CLC in packed beds using syngas and CuO/Al ₂ O ₃ : Model description and experimental validation. <i>Applied Energy</i> , 2014 , 119, 163-172	10.7	42
229	On the influence of steam on the CO ₂ chemisorption capacity of a hydrotalcite-based adsorbent for SEWGS applications. <i>Chemical Engineering Journal</i> , 2017 , 314, 554-569	14.7	41
228	Pd-based metallic supported membranes: High-temperature stability and fluidized bed reactor testing. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8706-8718	6.7	41
227	Comparison between fixed bed and fluidized bed membrane reactor configurations for PEM based micro-cogeneration systems. <i>Chemical Engineering Journal</i> , 2011 , 171, 1415-1427	14.7	41
226	Micro-structured fluidized bed membrane reactors: Solids circulation and densified zones distribution. <i>Chemical Engineering Journal</i> , 2014 , 239, 42-52	14.7	40
225	Low-temperature ethanol steam reforming in a Pd/Ag membrane reactor Part 2. Pt-based and Ni-based catalysts and general comparison. <i>Journal of Membrane Science</i> , 2008 , 308, 258-263	9.6	40
224	Mixed Ionic-Electronic Conducting Membranes (MIEC) for Their Application in Membrane Reactors: A Review. <i>Processes</i> , 2019 , 7, 128	2.9	39
223	Thermodynamic properties of hydrophobic deep eutectic solvents and solubility of water and HMF in them: Measurements and PC-SAFT modeling. <i>Fluid Phase Equilibria</i> , 2019 , 489, 75-82	2.5	39
222	Experimental demonstration of chemical-looping combustion of syngas in packed bed reactors with ilmenite. <i>Chemical Engineering Journal</i> , 2015 , 274, 156-168	14.7	39
221	Experimental Investigation of a CuO/Al ₂ O ₃ Oxygen Carrier for Chemical-Looping Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 9720-9728	3.9	39
220	Plasma assisted nitrogen oxide production from air: Using pulsed powered gliding arc reactor for a containerized plant. <i>AIChE Journal</i> , 2018 , 64, 526-537	3.6	38
219	CO-Free Hydrogen Production by Ethanol Steam Reforming in a Pd/Ag Membrane Reactor. <i>Fuel Cells</i> , 2008 , 8, 62-68	2.9	38
218	NiO/CaAl ₂ O ₄ as active oxygen carrier for low temperature chemical looping applications. <i>Applied Energy</i> , 2015 , 158, 86-96	10.7	37

217	Selective separation of furfural and hydroxymethylfurfural from an aqueous solution using a supported hydrophobic deep eutectic solvent liquid membrane. <i>Faraday Discussions</i> , 2017 , 206, 77-92	3.6	36
216	Autothermal Reforming of Methane with Integrated CO ₂ Capture in a Novel Fluidized Bed Membrane Reactor. Part 2 Comparison of Reactor Configurations. <i>Topics in Catalysis</i> , 2008 , 51, 146-157	2.3	36
215	Recent progress in developments of membrane materials and modification techniques for high performance helium separation and recovery: A review. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 122, 296-318	3.7	35
214	Thermophysical Properties and Solubility of Different Sugar-Derived Molecules in Deep Eutectic Solvents. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 3633-3641	2.8	35
213	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
212	Hydrogen production with integrated CO ₂ capture in a novel gas switching reforming reactor: Proof-of-concept. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 14367-14379	6.7	34
211	Achievements of European projects on membrane reactor for hydrogen production. <i>Journal of Cleaner Production</i> , 2017 , 161, 1442-1450	10.3	34
210	Experimental and modelling study of an electrochemical hydrogen compressor. <i>Chemical Engineering Journal</i> , 2019 , 369, 432-442	14.7	34
209	Hydrogen production with integrated CO ₂ capture in a membrane assisted gas switching reforming reactor: Proof-of-Concept. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 6177-6190	6.7	34
208	On concentration polarisation in a fluidized bed membrane reactor for biogas steam reforming: Modelling and experimental validation. <i>Chemical Engineering Journal</i> , 2018 , 348, 232-243	14.7	34
207	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
206	Fluidized Bed Membrane Reactors for Ultra Pure H ₂ Production--A Step forward towards Commercialization. <i>Molecules</i> , 2016 , 21, 376	4.8	34
205	Enhancing Pt-Ni/CeO ₂ performances for ethanol reforming by catalyst supporting on high surface silica. <i>Catalysis Today</i> , 2018 , 307, 175-188	5.3	33
204	Pt-Ni based catalyst for ethanol reforming in a fluidized bed membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 20122-20136	6.7	33
203	Energy analysis of two stage packed-bed chemical looping combustion configurations for integrated gasification combined cycles. <i>Energy</i> , 2015 , 85, 489-502	7.9	31
202	110th Anniversary: Distribution Coefficients of Furfural and 5-Hydroxymethylfurfural in Hydrophobic Deep Eutectic Solvent + Water Systems: Experiments and Perturbed-Chain Statistical Associating Fluid Theory Predictions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4240-4247	3.9	31
201	3D printed versus spherical adsorbents for gas sweetening. <i>Chemical Engineering Journal</i> , 2019 , 357, 309-319	14.7	30
200	Techno-economic assessment of an integrated high pressure chemical-looping process with packed-bed reactors in large scale hydrogen and methanol production. <i>International Journal of Greenhouse Gas Control</i> , 2019 , 88, 71-84	4.2	29

199	A kinetics study for the oxidative coupling of methane on a Mn/Na ₂ WO ₄ /SiO ₂ catalyst. <i>Applied Catalysis A: General</i> , 2012 , 433-434, 96-108	5.1	29
198	Ethanol steam reforming kinetics of a Pd/Ag membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 4747-4754	6.7	29
197	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
196	Resource scarcity in palladium membrane applications for carbon capture in integrated gasification combined cycle units. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 10498-10506	6.7	27
195	Development of Pd-based double-skinned membranes for hydrogen production in fluidized bed membrane reactors. <i>Journal of Membrane Science</i> , 2018 , 550, 536-544	9.6	27
194	Revealing the arc dynamics in a gliding arc plasmatron: a better insight to improve CO ₂ conversion. <i>Plasma Sources Science and Technology</i> , 2017 , 26, 125002	3.5	26
193	Techno-economic assessment of membrane-assisted gas switching reforming for pure H ₂ production with CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 72, 163-174	4.2	25
192	Effect of Au addition on hydrogen permeation and the resistance to H ₂ S on Pd-Ag alloy membranes. <i>Journal of Membrane Science</i> , 2017 , 542, 329-341	9.6	25
191	Kinetic model for adsorption and desorption of H ₂ O and CO ₂ on hydrotalcite-based adsorbents. <i>Chemical Engineering Journal</i> , 2019 , 355, 520-531	14.7	25
190	Development of highly permeable ultra-thin Pd-based supported membranes. <i>Chemical Engineering Journal</i> , 2016 , 305, 149-155	14.7	24
189	Techno-economic analysis of the Ca-Cu process integrated in hydrogen plants with CO ₂ capture. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 15720-15738	6.7	24
188	Attrition-resistant membranes for fluidized-bed membrane reactors: Double-skin membranes. <i>Journal of Membrane Science</i> , 2018 , 563, 419-426	9.6	24
187	TiNiPd dense membranes: The effect of the gas mixtures on the hydrogen permeation. <i>Journal of Membrane Science</i> , 2008 , 310, 44-50	9.6	24
186	Reactivity of Oxygen Carriers for Chemical-Looping Combustion in Packed Bed Reactors under Pressurized Conditions. <i>Energy & Fuels</i> , 2015 , 29, 2656-2663	4.1	23
185	Synthesis of N-doped carbon dots via a microplasma process. <i>Chemical Engineering Science</i> , 2020 , 220, 115648	4.4	23
184	Methane partial oxidation over a LaCr _{0.85} Ru _{0.15} O ₃ catalyst: Characterization, activity tests and kinetic modeling. <i>Applied Catalysis A: General</i> , 2014 , 486, 239-249	5.1	23
183	H ₂ production via ammonia decomposition in a catalytic membrane reactor. <i>Fuel Processing Technology</i> , 2021 , 216, 106772	7.2	23
182	Plasma Assisted Catalytic Conversion of CO ₂ and H ₂ O Over Ni/Al ₂ O ₃ in a DBD Reactor. <i>Plasma Chemistry and Plasma Processing</i> , 2019 , 39, 109-124	3.6	23

181	Effect of sweep gas on hydrogen permeation of supported Pd membranes: Experimental and modeling. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 4228-4239	6.7	22
180	Techno-economic evaluation on a hybrid technology for low hydrogen concentration separation and purification from natural gas grid. <i>International Journal of Hydrogen Energy</i> , 2020 , 46, 23417-23417	6.7	22
179	Evaluation of a Direct Air Capture Process Combining Wet Scrubbing and Bipolar Membrane Electrodialysis. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 7007-7020	3.9	22
178	Gas back-mixing study in a membrane-assisted micro-structured fluidized bed. <i>Chemical Engineering Science</i> , 2014 , 108, 194-202	4.4	22
177	2011 ,		22
176	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
175	Methane pyrolysis in a molten gallium bubble column reactor for sustainable hydrogen production: Proof of concept & techno-economic assessment. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 4917-4935	6.7	22
174	Development and testing of ilmenite granules for packed bed chemical-looping combustion. <i>Chemical Engineering Journal</i> , 2014 , 245, 228-240	14.7	21
173	Development of a novel infrared technique for instantaneous, whole-field, non invasive gas concentration measurements in gas-solid fluidized beds. <i>Chemical Engineering Journal</i> , 2013 , 219, 545-557	14.7	21
172	New TiNi dense membranes with low palladium content. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 4016-4022	6.7	21
171	Advanced m-CHP fuel cell system based on a novel bio-ethanol fluidized bed membrane reformer. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 13970-13987	6.7	20
170	Modeling and optimization of hydrogenation of CO ₂ : Estimation of kinetic parameters via Artificial Bee Colony (ABC) and Differential Evolution (DE) algorithms. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 4630-4649	6.7	20
169	Effect of Re addition on the WGS activity and stability of Pt/CeO ₂ /TiO ₂ catalyst for membrane reactor applications. <i>Catalysis Today</i> , 2016 , 268, 95-102	5.3	20
168	Comparison of conventional and spherical reactor for the industrial auto-thermal reforming of methane to maximize synthesis gas and minimize CO ₂ . <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 19798-19809	6.7	20
167	Process design for green hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 72666-72777	6.7	20
166	Influence of material composition on the CO ₂ and H ₂ O adsorption capacities and kinetics of potassium-promoted sorbents. <i>Chemical Engineering Journal</i> , 2018 , 334, 2115-2123	14.7	20
165	A comparative energy and costs assessment and optimization for direct air capture technologies. <i>Joule</i> , 2021 , 5, 2047-2076	27.8	20
164	Chemical Looping Technologies for H ₂ Production With CO ₂ Capture: Thermodynamic Assessment and Economic Comparison. <i>Energy Procedia</i> , 2017 , 114, 419-428	2.3	19

163	Integrated autothermal oxidative coupling and steam reforming of methane. Part 2: Development of a packed bed membrane reactor with a dual function catalyst. <i>Chemical Engineering Science</i> , 2012 , 82, 232-245	4.4	19
162	A Review on Patents for Hydrogen Production Using Membrane Reactors. <i>Recent Patents on Chemical Engineering</i> , 2009 , 2, 207-222		19
161	Characterization of a nitrogen gliding arc plasmatron using optical emission spectroscopy and high-speed camera. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 065201	3	19
160	Long-Term Stability of Thin-Film Pd-Based Supported Membranes. <i>Processes</i> , 2019 , 7, 106	2.9	18
159	Experimental demonstration of CLC and the pressure effect in packed bed reactors using NiO/CaAl ₂ O ₄ as oxygen carrier. <i>Fuel</i> , 2015 , 159, 828-836	7.1	18
158	New high temperature sealing technique and permeability data for hollow fiber BSCF perovskite membranes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 107, 206-219	3.7	17
157	Development of a RhZrO ₂ catalyst for low temperature autothermal reforming of methane in membrane reactors. <i>Catalysis Today</i> , 2014 , 236, 23-33	5.3	17
156	Virtual reality in chemical and biochemical engineering education and training. <i>Education for Chemical Engineers</i> , 2021 , 36, 143-153	2.4	17
155	Definition of validated membrane reactor model for 5kW power output CHP system for different natural gas compositions. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 19141-19153	6.7	17
154	Modeling of autothermal reforming of methane in a fluidized bed reactor with perovskite membranes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 124, 308-318	3.7	17
153	Introduction \square A Review of Membrane Reactors 2011 , 1-61		16
152	Optimization of a Gas Switching Combustion process through advanced heat management strategies. <i>Applied Energy</i> , 2017 , 185, 1459-1470	10.7	15
151	CO ₂ and H ₂ O chemisorption mechanism on different potassium-promoted sorbents for SEWGS processes. <i>Journal of CO₂ Utilization</i> , 2018 , 25, 180-193	7.6	15
150	Operation of fixed-bed chemical looping combustion. <i>Energy Procedia</i> , 2013 , 37, 575-579	2.3	15
149	Coupled PIV/DIA for fluid dynamics studies on a Two-Section Two-Zone Fluidized Bed Reactor. <i>Chemical Engineering Journal</i> , 2012 , 207-208, 122-132	14.7	15
148	Strategies for Integrated Capture and Conversion of CO from Dilute Flue Gases and the Atmosphere. <i>ChemSusChem</i> , 2021 , 14, 1805-1820	8.3	15
147	Hydrogen safety risk assessment methodology applied to a fluidized bed membrane reactor for autothermal reforming of natural gas. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10090-10102	6.7	14
146	On the effect of gas pockets surrounding membranes in fluidized bed membrane reactors: An experimental and numerical study. <i>Chemical Engineering Journal</i> , 2015 , 282, 45-57	14.7	14

145	Hydrodynamic study of a Two-Section Two-Zone Fluidized Bed Reactor with an immersed tube bank via PIV/DIA. <i>Chemical Engineering Science</i> , 2015 , 134, 238-250	4.4	14
144	A novel gas switching combustion reactor for power production with integrated CO ₂ capture: Sensitivity to the fuel and oxygen carrier types. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 39, 185-193	4.2	14
143	Integrated autothermal oxidative coupling and steam reforming of methane. Part 1: Design of a dual-function catalyst particle. <i>Chemical Engineering Science</i> , 2012 , 82, 200-214	4.4	14
142	Thermal and mechanical behaviour of oxygen carrier materials for chemical looping combustion in a packed bed reactor. <i>Applied Energy</i> , 2015 , 157, 374-381	10.7	13
141	The effect of gas permeation through vertical membranes on chemical switching reforming (CSR) reactor performance. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8640-8655	6.7	13
140	Investigation on the decrease in the reduction rate of oxygen carriers for chemical looping combustion. <i>Powder Technology</i> , 2016 , 301, 429-439	5.2	13
139	N ₂ , He and CO ₂ diffusion mechanism through nanoporous YSZ/EAl ₂ O ₃ layers and their use in a pore-filled membrane for hydrogen membrane reactors. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8732-8744	6.7	13
138	Progress in spherical packed-bed reactors: Opportunities for refineries and chemical industries. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 132, 16-24	3.7	13
137	An experimental investigation on the onset from bubbling to turbulent fluidization regime in micro-structured fluidized beds. <i>Powder Technology</i> , 2014 , 256, 166-174	5.2	13
136	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
135	Latest Developments in Membrane (Bio)Reactors. <i>Processes</i> , 2020 , 8, 1239	2.9	13
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