

Fausto Gallucci

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.

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	Kinetic modelling of the methanol synthesis from CO ₂ and H ₂ over a CuO/CeO ₂ /ZrO ₂ catalyst: The role of CO ₂ and CO hydrogenation. <i>Chemical Engineering Journal</i> , 2022 , 435, 134946	14.7	2
287	CO ₂ capture and activation with a plasma-sorbent system. <i>Chemical Engineering Journal</i> , 2022 , 430, 132979	14.7	2
286	Ultra-pure hydrogen production via ammonia decomposition in a catalytic membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 21220-21230	6.7	0
285	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
284	Total vapor pressure of hydrophobic deep eutectic solvents: Experiments and modelling. <i>Journal of Molecular Liquids</i> , 2021 , 325, 115227	6	9
283	Non-thermal plasma-assisted capture and conversion of CO ₂ . <i>Chemical Engineering Journal</i> , 2021 , 410, 128335	14.7	10
282	H ₂ production via ammonia decomposition in a catalytic membrane reactor. <i>Fuel Processing Technology</i> , 2021 , 216, 106772	7.2	23
281	Ce _{0.9} Gd _{0.1} O ₂ -based multi-phase membranes with high CO ₂ -tolerance. <i>Ceramics International</i> , 2021 , 47, 17768-17777	5.1	0
280	Virtual reality in chemical and biochemical engineering education and training. <i>Education for Chemical Engineers</i> , 2021 , 36, 143-153	2.4	17
279	Hydrogen permeation studies of composite supported alumina-carbon molecular sieves membranes: Separation of diluted hydrogen from mixtures with methane. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 19758-19767	6.7	2
278	Selective CO ₂ -Hydrogenation using a membrane reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 160, 108264	3.7	6
277	Systematic experimental assessment of concentration polarization and inhibition in Pd-based membranes for hydrogen purification. <i>Fuel Processing Technology</i> , 2021 , 213, 106661	7.2	2
276	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
275	Carbon Nanosheets Synthesis in a Gliding Arc Reactor: On the Reaction Routes and Process Parameters. <i>Plasma Chemistry and Plasma Processing</i> , 2021 , 41, 191-209	3.6	1
274	Mixed matrix membranes for hydrocarbons separation and recovery: a critical review. <i>Reviews in Chemical Engineering</i> , 2021 , 37, 363-406	5	13
273	On the use of double-skinned membranes to prevent chemical interaction between membranes and catalysts. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 20240-20244	6.7	2
272	Multi-Scale Studies of 3D Printed Mn ₂ N ₃ /SiO ₂ Catalyst for Oxidative Coupling of Methane. <i>Catalysts</i> , 2021 , 11, 290	4	2

271	A comparative energy and costs assessment and optimization for direct air capture technologies. <i>Joule</i> , 2021 , 5, 2047-2076	27.8	20
270	Direct conversion of CO ₂ to dimethyl ether in a fixed bed membrane reactor: Influence of membrane properties and process conditions. <i>Fuel</i> , 2021 , 302, 121080	7.1	7
269	Tailoring pore structure and surface chemistry of microporous Alumina-Carbon Molecular Sieve Membranes (Al-CMSMs) by altering carbonization temperature for optimal gas separation performance: An investigation using low-field NMR relaxation measurements. <i>Chemical Engineering Journal</i> , 2021 , 424, 129313	14.7	8
268	Multi-Scale Analysis of Integrated C1 (CH ₄ and CO ₂) Utilization Catalytic Processes: Impacts of Catalysts Characteristics up to Industrial-Scale Process Flowsheeting, Part II: Techno-Economic Analysis of Integrated C1 Utilization Process Scenarios. <i>Catalysts</i> , 2020 , 10, 488	4	1
267	Optimization of solvent properties for post-combustion CO ₂ capture using process simulation. <i>International Journal of Greenhouse Gas Control</i> , 2020 , 99, 103080	4.2	5
266	Pt/Re/CeO ₂ Based Catalysts for CO-Water Gas Shift Reaction: from Powders to Structured Catalyst. <i>Catalysts</i> , 2020 , 10, 564	4	7
265	Oxidative Coupling of Methane in Membrane Reactors; A Techno-Economic Assessment. <i>Processes</i> , 2020 , 8, 274	2.9	11
264	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
263	Hydrogen transport through the V-Cr-Al alloys: Hydrogen solution, permeation and thermal-stability. <i>Separation and Purification Technology</i> , 2020 , 240, 116654	8.3	3
262	Mass transport in hydrogen permeation through Pd-based membranes 2020 , 63-90		2
261	Membrane reactors using metallic membranes 2020 , 235-260		3
260	Energy analysis of innovative systems with metallic membranes 2020 , 293-311		
259	An overview of some recent european projects on metallic membranes 2020 , 313-379		0
258	Metallic membranes for hydrogen separation 2020 , 1-29		2
257	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
256	Degradation of Pd/Nb ₃₀ Ti ₃₅ Co ₃₅ /Pd hydrogen permeable membrane: A numerical description. <i>Journal of Membrane Science</i> , 2020 , 601, 117922	9.6	8
255	Synthesis of N-doped carbon dots via a microplasma process. <i>Chemical Engineering Science</i> , 2020 , 220, 115648	4.4	23
254	Konventionelle Verfahren zur Wasserstoffherstellung 2020 , 17-37		

253	Optimal Membrane-Process Design (OMPD): A software product for optimal design of membrane gas separation processes. <i>Computers and Chemical Engineering</i> , 2020 , 135, 106724	4	5
252	Effect of CO ₂ on the performance of an electrochemical hydrogen compressor. <i>Chemical Engineering Journal</i> , 2020 , 392, 123647	14.7	5
251	Performance control of dead-end tubular membranes fabricated with a modified phase inversion casting method. <i>Ceramics International</i> , 2020 , 46, 22429-22437	5.1	4
250	Latest Developments in Membrane (Bio)Reactors. <i>Processes</i> , 2020 , 8, 1239	2.9	13
249	Experimental Investigation of the Oxidative Coupling of Methane in a Porous Membrane Reactor: Relevance of Back-Permeation. <i>Membranes</i> , 2020 , 10,	3.8	4
248	Vapor Pressure Assessment of Sulfolane-Based Eutectic Solvents: Experimental, PC-SAFT, and Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 10386-10397	3.4	5
247	Metal membranes in hydrogen separation and purification 2020 , 321-350		0
246	Water Adsorption Effect on Carbon Molecular Sieve Membranes in H ₂ -CH ₄ Mixture at High Pressure. <i>Energies</i> , 2020 , 13, 3577	3.1	2
245	Comparison between carbon molecular sieve and Pd-Ag membranes in H ₂ -CH ₄ separation at high pressure. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 28876-28892	6.7	4
244	Carbon Nanotubes for Hydrogen Purification and Storage 2020 , 211-238		
243	Oxidative Coupling of Methane: A Comparison of Different Reactor Configurations. <i>Energy Technology</i> , 2020 , 8, 1900148	3.5	11
242	Hydrogen permeation and stability in ultra-thin PdRu supported membranes. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7455-7467	6.7	11
241	Process design for green hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7266-7277	6.7	20
240	Influence of H ₂ S on the hydrogen flux of thin-film PdAgAu membranes. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7303-7312	6.7	8
239	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
238	Effect of operating conditions and effectiveness factor on hydrogenation of CO ₂ to hydrocarbons. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 28586-28602	6.7	7
237	Techno-Economic Assessment in a Fluidized Bed Membrane Reactor for Small-Scale H ₂ Production: Effect of Membrane Support Thickness. <i>Membranes</i> , 2019 , 9,	3.8	6
236	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

235	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
234	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
233	Synthesis of luminescent carbon quantum dots by microplasma process. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 140, 29-35	3.7	53
232	Membranes utilization for biogas upgrading to synthetic natural gas 2019 , 245-274		2
231	Experimental and modelling study of an electrochemical hydrogen compressor. <i>Chemical Engineering Journal</i> , 2019 , 369, 432-442	14.7	34
230	Investigating the role of the different metals in hydrotalcite Mg/Al-based adsorbents and their interaction with acidic sorbate species. <i>Chemical Engineering Science</i> , 2019 , 200, 138-146	4.4	10
229	Mixed Ionic-Electronic Conducting Membranes (MIEC) for Their Application in Membrane Reactors: A Review. <i>Processes</i> , 2019 , 7, 128	2.9	39
228	Recent progress of the Ca-Cu technology for decarbonisation of power plants and carbon intensive industries. <i>International Journal of Greenhouse Gas Control</i> , 2019 , 85, 71-85	4.2	10
227	Long-Term Stability of Thin-Film Pd-Based Supported Membranes. <i>Processes</i> , 2019 , 7, 106	2.9	18
226	Sequential and in Situ Extraction of Furfural from Reaction Mixture and Effect of Extracting Agents on Furfural Degradation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 16116-16125	3.9	7
225	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
224	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
223	Real-time determination of optimal switching times for a H ₂ production process with CO ₂ capture using Gaussian Process Regression models. <i>Computer Aided Chemical Engineering</i> , 2019 , 46, 1219-1224	0.6	3
222	Optimal Operation and Control of Fluidized Bed Membrane Reactors for Steam Methane Reforming. <i>Computer Aided Chemical Engineering</i> , 2019 , 1231-1236	0.6	1
221	Microstructure Control of Tubular Micro-Channelled Supports Fabricated by the Phase Inversion Casting Method. <i>Processes</i> , 2019 , 7, 322	2.9	1
220	Ethanol Reforming in Thermally Coupled, Fluidized-Bed, Bubble Column, and Membrane Reactors 2019 , 355-382		
219	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
218	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

217	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
216	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
215	3D printed versus spherical adsorbents for gas sweetening. <i>Chemical Engineering Journal</i> , 2019 , 357, 309-319	14.7	30
214	Integration of solid oxide fuel cell (SOFC) and chemical looping combustion (CLC) for ultra-high efficiency power generation and CO ₂ production. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 71, 9-19	4.2	12
213	Unravelling the transport mechanism of pore-filled membranes for hydrogen separation. <i>Separation and Purification Technology</i> , 2018 , 203, 41-47	8.3	11
212	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
211	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
210	Inorganic Membrane Reactors for Methanol Synthesis 2018 , 493-518		4
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	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
207	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
206	Non-ideal hydrogen permeation through V-alloy membranes. <i>Journal of Membrane Science</i> , 2018 , 564, 456-464	9.6	7
205	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
204	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
203	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
202	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
201	Attrition-resistant membranes for fluidized-bed membrane reactors: Double-skin membranes. <i>Journal of Membrane Science</i> , 2018 , 563, 419-426	9.6	24
200	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

199	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
198	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
197	Recent Progress of Plasma-Assisted Nitrogen Fixation Research: A Review. <i>Processes</i> , 2018 , 6, 248	2.9	58
196	Chemical Looping Processes Using Packed Bed Reactors 2018 , 61-92		2
195	Thermodynamic Aspects in Non-Ideal Metal Membranes for Hydrogen Purification. <i>Membranes</i> , 2018 , 8,	3.8	7
194	Membrane Optimization and Process Condition Investigation for Enhancing the CO ₂ Separation From Natural Gas 2018 , 469-509		2
193	Adsorption behavior and kinetics of H ₂ S on a potassium-promoted hydrotalcite. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 20758-20771	6.7	7
192	Optimization of a Gas Switching Combustion process through advanced heat management strategies. <i>Applied Energy</i> , 2017 , 185, 1459-1470	10.7	15
191	Experimental investigation on the generic effects of gas permeation through flat vertical membranes. <i>Powder Technology</i> , 2017 , 316, 207-217	5.2	5
190	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
189	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
188	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
187	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
186	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
185	Achievements of European projects on membrane reactor for hydrogen production. <i>Journal of Cleaner Production</i> , 2017 , 161, 1442-1450	10.3	34
184	PC-SAFT modeling of CO ₂ solubilities in hydrophobic deep eutectic solvents. <i>Fluid Phase Equilibria</i> , 2017 , 448, 94-98	2.5	50
183	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
182	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

181	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
180	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
179	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
178	Packed Bed Ca-Cu Looping Process Integrated with a Natural Gas Combined Cycle for Low Emission Power Production. <i>Energy Procedia</i> , 2017 , 114, 104-112	2.3	5
177	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
176	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
175	Detecting densified zone formation in membrane-assisted fluidized bed reactors through pressure measurements. <i>Chemical Engineering Journal</i> , 2017 , 308, 1154-1164	14.7	11
174	Sorption-Enhanced Water-Gas Shift. <i>Advances in Chemical Engineering</i> , 2017 , 1-96	0.6	11
173	Recent Advances in Pd-Based Membranes for Membrane Reactors. <i>Molecules</i> , 2017 , 22,	4.8	59
172	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
171	On the measurement of solids circulation rates in interconnected fluidized beds: Comparison of different experimental techniques. <i>Powder Technology</i> , 2016 , 302, 81-89	5.2	9
170	Effect of Re addition on the WGS activity and stability of Pt/CeO ₂ -NiO ₂ catalyst for membrane reactor applications. <i>Catalysis Today</i> , 2016 , 268, 95-102	5.3	20
169	Experimental demonstration of control strategies for a Gas Switching Combustion reactor for power production with integrated CO ₂ capture. <i>Chemical Engineering Research and Design</i> , 2016 , 111, 342-352	5.5	4
168	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
167	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
166	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
165	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
164	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

163	Development of an endoscopic-laser PIV/DIA technique for high-temperature gas-solid fluidized beds. <i>Chemical Engineering Science</i> , 2016 , 143, 351-363	4.4	8
162	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
161	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
160	N ₂ , He and CO ₂ diffusion mechanism through nanoporous YSZ/Al 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
159	Development of highly permeable ultra-thin Pd-based supported membranes. <i>Chemical Engineering Journal</i> , 2016 , 305, 149-155	14.7	24
158	Process Intensification via Membrane Reactors, the DEMCAMER Project. <i>Processes</i> , 2016 , 4, 16	2.9	10
157	Morphology and N ₂ Permeance of Sputtered Pd-Ag Ultra-Thin Film Membranes. <i>Molecules</i> , 2016 , 21,	4.8	4
156	Fluidized Bed Membrane Reactors for Ultra Pure H ₂ Production--A Step forward towards Commercialization. <i>Molecules</i> , 2016 , 21, 376	4.8	34
155	Process Intensification in Fuel Cell CHP Systems, the ReForCELL Project. <i>Processes</i> , 2016 , 4, 37	2.9	2
154	Advancement of an Infra-Red Technique for Whole-Field Concentration Measurements in Fluidized Beds. <i>Sensors</i> , 2016 , 16, 300	3.8	4
153	Kinetics of the Reactions Prevailing during Packed-Bed Chemical Looping Combustion of Syngas using Ilmenite. <i>Energy Technology</i> , 2016 , 4, 1137-1146	3.5	12
152	Pre-combustion packed bed chemical looping (PCCL) technology for efficient H ₂ -rich gas production processes. <i>Chemical Engineering Journal</i> , 2016 , 294, 478-494	14.7	11
151	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
150	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
149	Gas Switching as a Practical Alternative for Scaleup of Chemical Looping Combustion. <i>Energy Technology</i> , 2016 , 4, 1286-1298	3.5	12
148	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
147	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
146	Reacting porous solids with phase segregation. <i>Chemical Engineering Science</i> , 2015 , 132, 200-214	4.4	6

145	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
144	Using palladium membrane-based fuel reformers for combined heat and power (CHP) plants 2015 , 319-344		
143	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
142	Boosting the IGCLC process efficiency by optimizing the desulfurization step. <i>Applied Energy</i> , 2015 , 157, 422-432	10.7	7
141	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
140	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
139	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
138	The effect of frictional pressure, geometry and wall friction on the modelling of a pseudo-2D bubbling fluidised bed reactor. <i>Powder Technology</i> , 2015 , 283, 85-102	5.2	9
137	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
136	Membrane reactors for autothermal reforming of methane, methanol, and ethanol 2015 , 61-98		1
135	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
134	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
133	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
132	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
131	Development of thin PdAg 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
130	Heat Management in Gas Switching Combustion for Power Production with Integrated CO ₂ Capture. <i>Energy Procedia</i> , 2015 , 75, 2215-2220	2.3	3
129	Sorption-Enhanced Fuel Conversion 2015 , 175-208		
128	Pd-Based Membranes in Hydrogen Production for Fuel cells 2015 , 209-242		

127	Novel Pre-Combustion Power Production: Membrane Reactors 2015 , 53-80		
126	Catalytic Reactors with Membrane Separation 2015 , 739-772		1
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