

List of Publications by Citations

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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.

203 papers	7,586 citations	47 h-index	81 g-index
213 ext. papers	8,997 ext. citations	6.7 avg, IF	6.75 L-index

#	Paper	IF	Citations
203	Equilibrium, kinetics and breakthrough studies for adsorption of fluoride on activated alumina. <i>Separation and Purification Technology</i> , <b>2005</b> , 42, 265-271	8.3	418
202	Equilibrium, kinetics and thermodynamic studies for adsorption of As(III) on activated alumina. <i>Separation and Purification Technology</i> , <b>2004</b> , 36, 139-147	8.3	407
201	Removal of chromium from industrial waste by using eucalyptus bark. <i>Bioresource Technology</i> , <b>2006</b> , 97, 15-20	11	392
200	Hydrogen production from glycerol by reforming in supercritical water over Ru/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Fuel</i> , <b>2008</b> , 87, 2956-2960	7.1	241
199	Investigations on the column performance of fluoride adsorption by activated alumina in a fixed-bed. <i>Chemical Engineering Journal</i> , <b>2004</b> , 98, 165-173	14.7	236
198	Characterization of North American Lignocellulosic Biomass and Biochars in Terms of their Candidacy for Alternate Renewable Fuels. <i>Bioenergy Research</i> , <b>2013</b> , 6, 663-677	3.1	224
197	Solidification/stabilization of arsenic containing solid wastes using portland cement, fly ash and polymeric materials. <i>Journal of Hazardous Materials</i> , <b>2006</b> , 131, 29-36	12.8	177
196	Evaluation of the physiochemical development of biochars obtained from pyrolysis of wheat straw, timothy grass and pinewood: Effects of heating rate. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2013</b> , 104, 485-493	6	167
195	Catalytic and mechanistic insights into the production of ethyl levulinate from biorenewable feedstocks. <i>Green Chemistry</i> , <b>2016</b> , 18, 4804-4823	10	162
194	Kinetic modeling of steam reforming of ethanol for the production of hydrogen over Co/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Chemical Engineering Journal</i> , <b>2007</b> , 125, 139-147	14.7	150
193	Thermodynamic and breakthrough column studies for the selective sorption of chromium from industrial effluent on activated eucalyptus bark. <i>Bioresource Technology</i> , <b>2006</b> , 97, 1986-93	11	144
192	Catalytic conversion of methanol to gasoline range hydrocarbons. <i>Catalysis Today</i> , <b>2004</b> , 96, 155-160	5.3	139
191	Hydrogen Production from Glucose Using Ru/Al <sub>2</sub> O <sub>3</sub> Catalyst in Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 3574-3579	3.9	117
190	K-, CeO <sub>2</sub> -, and Mn-promoted Ni/Al <sub>2</sub> O <sub>3</sub> catalysts for stable CO <sub>2</sub> reforming of methane. <i>Applied Catalysis A: General</i> , <b>2005</b> , 290, 166-174	5.1	110
189	Perennial grass ( <i>Arundo donax</i> L.) as a feedstock for thermo-chemical conversion to energy and materials. <i>Bioresource Technology</i> , <b>2015</b> , 188, 265-72	11	97
188	Catalytic oxidative steam reforming of bio-ethanol for hydrogen production over Rh promoted Ni/CeO <sub>2</sub> -rO <sub>2</sub> catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 2529-2544	6.7	96
187	Deep desulfurization of diesel fuel by selective adsorption over Ni/Al <sub>2</sub> O <sub>3</sub> and Ni/ZSM-5 extrudates. <i>Fuel</i> , <b>2012</b> , 93, 86-91	7.1	95

186	Pretreatment of lignocellulosic biomass: A review on recent advances. <i>Bioresource Technology</i> , <b>2021</b> , 334, 125235	11	92
185	Renewable hydrogen generation by steam reforming of glycerol over zirconia promoted ceria supported catalyst. <i>Renewable Energy</i> , <b>2011</b> , 36, 3195-3202	8.1	86
184	Deep desulfurization of diesel via peroxide oxidation using phosphotungstic acid as phase transfer catalyst. <i>Fuel Processing Technology</i> , <b>2010</b> , 91, 1133-1138	7.2	83
183	Kinetic study of the catalytic carbon dioxide reforming of methane to synthesis gas over Ni-K/CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Applied Catalysis A: General</i> , <b>2006</b> , 308, 119-127	5.1	81
182	Hydrolysis of cellulosic bamboo biomass into reducing sugars via a combined alkaline solution and ionic liquid pretreatment steps. <i>Renewable Energy</i> , <b>2017</b> , 104, 177-184	8.1	80
181	Direct conversion of natural gas to higher hydrocarbons: A review. <i>Journal of Energy Chemistry</i> , <b>2013</b> , 22, 543-554	12	80
180	Synthesis of hydrogen and carbon nanotubes over copper promoted Ni/SiO <sub>2</sub> catalyst by thermocatalytic decomposition of methane. <i>Journal of Natural Gas Science and Engineering</i> , <b>2013</b> , 13, 52-59	4.6	80
179	Experimental and modelling studies on fixed bed adsorption of As(III) ions from aqueous solution. <i>Separation and Purification Technology</i> , <b>2006</b> , 48, 288-296	8.3	80
178	H <sub>2</sub> production by steam reforming of methanol over Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> catalysts: transient deactivation kinetics modeling. <i>Applied Catalysis A: General</i> , <b>2005</b> , 279, 155-164	5.1	79
177	Activity and stability enhancement of copper/Alumina catalysts using cerium and zinc promoters for the selective production of hydrogen via steam reforming of methanol. <i>Journal of Power Sources</i> , <b>2006</b> , 159, 139-143	8.9	78
176	Adsorption of As(III) from Aqueous Solution onto Iron Oxide Impregnated Activated Alumina. <i>Water Quality Research Journal of Canada</i> , <b>2004</b> , 39, 258-266	1.7	77
175	Development and performance evaluation of an algal biofilm reactor for treatment of multiple wastewaters and characterization of biomass for diverse applications. <i>Bioresource Technology</i> , <b>2017</b> , 224, 276-284	11	75
174	Deactivation Studies over Ni-K/CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Catalyst for Dry Reforming of Methane. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 1731-1736	3.9	74
173	Hydrogen production by oxidative steam reforming of methanol using ceria promoted copper/Alumina catalysts. <i>Fuel Processing Technology</i> , <b>2007</b> , 88, 825-832	7.2	70
172	Hydrogen Production from Ethanol by Reforming in Supercritical Water Using Ru/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>Energy &amp; Fuels</i> , <b>2007</b> , 21, 3541-3547	4.1	68
171	Novel technologies and conventional processes for recovery of metals from waste electrical and electronic equipment: Challenges & opportunities [A review]. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 1288-1304	6.8	66
170	Ni-Cu-Zn/MCM-22 catalysts for simultaneous production of hydrogen and multiwall carbon nanotubes via thermo-catalytic decomposition of methane. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 13352-13360	6.7	66
169	Studies on mercury bioremediation by alginate immobilized mercury tolerant <i>Bacillus cereus</i> cells. <i>International Biodeterioration and Biodegradation</i> , <b>2012</b> , 71, 1-8	4.8	64

168	Intermediate pyrolysis of agro-industrial biomasses in bench-scale pyrolyser: Product yields and its characterization. <i>Bioresource Technology</i> , <b>2015</b> , 188, 258-64	11	61
167	Steam reforming of acetic acid for hydrogen production over bifunctional Ni $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Catalysis Today</i> , <b>2013</b> , 207, 36-43	5.3	61
166	Oxidative and non-oxidative steam reforming of crude bio-ethanol for hydrogen production over Rh promoted Ni/CeO <sub>2</sub> -ZrO <sub>2</sub> catalyst. <i>Applied Catalysis A: General</i> , <b>2015</b> , 499, 19-31	5.1	55
165	Kinetics and Mass Transfer Studies on the Adsorption of Arsenic onto Activated Alumina and Iron Oxide Impregnated Activated Alumina. <i>Water Quality Research Journal of Canada</i> , <b>2006</b> , 41, 147-156	1.7	55
164	Pyrolysis of n-heptane: kinetics and modeling. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>1996</b> , 36, 103-120		55
163	Chelation technology: a promising green approach for resource management and waste minimization. <i>Environmental Sciences: Processes and Impacts</i> , <b>2015</b> , 17, 12-40	4.3	54
162	Experimental study and mechanistic kinetic modeling for selective production of hydrogen via catalytic steam reforming of methanol. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 5425-5435	4.4	53
161	Effect of heating/reheating of fats/oils, as used by Asian Indians, on trans fatty acid formation. <i>Food Chemistry</i> , <b>2016</b> , 212, 663-70	8.5	51
160	Characterization and Activity of K, CeO <sub>2</sub> , and Mn Promoted Ni/Al <sub>2</sub> O <sub>3</sub> Catalysts for Carbon Dioxide Reforming of Methane. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 7435-7443	3.9	51
159	Greener approach for the extraction of copper metal from electronic waste. <i>Waste Management</i> , <b>2016</b> , 57, 102-112	8.6	50
158	Extraction of nickel from spent catalyst using fresh and recovered EDTA. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 171, 253-61	12.8	49
157	Recovery of Nickel from Spent Industrial Catalysts Using Chelating Agents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 2014-2024	3.9	47
156	A review of biochemical and thermochemical energy conversion routes of wastewater grown algal biomass. <i>Science of the Total Environment</i> , <b>2020</b> , 726, 137961	10.2	46
155	Liquid fuel production from syngas using bifunctional CuO $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalyst mixed with MFI zeolite. <i>Fuel Processing Technology</i> , <b>2011</b> , 92, 600-608	7.2	46
154	Synthesis of green fuels from biogenic waste through thermochemical route The role of heterogeneous catalyst: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 38, 131-153	16.2	45
153	Carbon dioxide absorption into monoethanolamine in a continuous film contactor. <i>Chemical Engineering Journal</i> , <b>2007</b> , 133, 229-237	14.7	44
152	Removal of arsenic and fluoride from aqueous solution by biomass based activated biochar: Optimization through response surface methodology. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 5528-5539	6.8	43
151	Kinetic Study of Steam Reforming of Ethanol on Ni-Based Ceria $\gamma$ -Zirconia Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 15763-15771	3.9	43

150	Selective production of hydrogen via oxidative steam reforming of methanol using Cu <sub>2</sub> Zn/CeAl <sub>2</sub> O <sub>3</sub> oxide catalysts. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 5436-5443	4.4	42
149	Effect of support materials on the performance of Ni-based catalysts in tri-reforming of methane. <i>Fuel Processing Technology</i> , <b>2019</b> , 186, 40-52	7.2	41
148	Renewable hydrogen production by steam reforming of glycerol over Ni/CeO <sub>2</sub> catalyst prepared by precipitation deposition method. <i>Korean Journal of Chemical Engineering</i> , <b>2011</b> , 28, 1859-1866	2.8	40
147	Metal Recovery from Hydroprocessing Spent Catalyst: A Green Chemical Engineering Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 16724-16736	3.9	39
146	Hydrogen production from steam reforming of acetic acid over Cu-Zn supported calcium aluminate. <i>Bioresource Technology</i> , <b>2012</b> , 123, 558-65	11	38
145	Hydrogen production by steam reforming of model bio-oil using structured Ni/Al <sub>2</sub> O <sub>3</sub> catalysts. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 921-933	6.7	37
144	Synergistic effect of ionic liquid and dilute sulphuric acid in the hydrolysis of microcrystalline cellulose. <i>Fuel Processing Technology</i> , <b>2016</b> , 148, 289-294	7.2	36
143	Pyrolysis and kinetic analyses of a perennial grass ( <i>Saccharum ravennae</i> L.) from north-east India: Optimization through response surface methodology and product characterization. <i>Bioresource Technology</i> , <b>2018</b> , 253, 304-314	11	35
142	Influence of preparation method on performance of Cu(Zn)(Zr)-alumina catalysts for the hydrogen production via steam reforming of methanol. <i>Journal of Porous Materials</i> , <b>2006</b> , 13, 373-378	2.4	35
141	Integrated thermo-catalytic reforming of residual sugarcane bagasse in a laboratory scale reactor. <i>Fuel Processing Technology</i> , <b>2018</b> , 171, 277-286	7.2	34
140	Extraction of Nickel from Spent Catalyst Using Biodegradable Chelating Agent EDDS. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 10354-10363	3.9	34
139	Activity of Oxalic Acid Treated ZnO/CuO/HZSM-5 Catalyst for the Transformation of Methanol to Gasoline Range Hydrocarbons. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 2970-2975	3.9	33
138	Lignin Conversion: A Key to the Concept of Lignocellulosic Biomass-Based Integrated Biorefinery <b>2018</b> , 409-444		32
137	Environmentally friendly approach for the recovery of metallic fraction from waste printed circuit boards using pyrolysis and ultrasonication. <i>Waste Management</i> , <b>2020</b> , 118, 150-160	8.6	30
136	An ultra-light flexible aerogel-based on methane derived CNTs as a reinforcing agent in silica-CMC matrix for efficient oil adsorption. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 375, 206-215	12.8	29
135	Direct conversion of methane with methanol toward higher hydrocarbon over Ga modified Mo/H-ZSM-5 catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2014</b> , 20, 2364-2369	6.3	29
134	Kinetic modeling of oxidative steam reforming of methanol over Cu/ZnO/CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Applied Catalysis A: General</i> , <b>2009</b> , 356, 189-200	5.1	29
133	Investigations on energy efficiency of biomethane/biocrude production from pilot scale wastewater grown algal biomass. <i>Applied Energy</i> , <b>2019</b> , 254, 113656	10.7	28

132	Eco-friendly recovery of metals from waste mobile printed circuit boards using low temperature roasting. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 395, 122642	12.8	28
131	Methanol assisted methane conversion for higher hydrocarbon over bifunctional Zn-modified Mo/HZSM-5 catalyst. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 398, 368-375		28
130	Catalytic Pyrolysis of n-Heptane: Kinetics and Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 2059-2065	3.9	28
129	CO-hydrogenation over silica supported iron based catalysts: Influence of potassium loading. <i>Applied Energy</i> , <b>2013</b> , 111, 267-276	10.7	27
128	Hydroisomerization of Long Chain n-Paraffins over Pt/ZSM-22: Influence of Si/Al Ratio. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 1066-1075	4.1	27
127	Insights into the metal salt catalyzed ethyl levulinate synthesis from biorenewable feedstocks. <i>Catalysis Today</i> , <b>2017</b> , 291, 187-194	5.3	26
126	Biomass-derived CO <sub>2</sub> rich syngas conversion to higher hydrocarbon via Fischer-Tropsch process over FeCo bimetallic catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 27741-27748	6.7	26
125	Catalytic wet oxidation of phenol in a trickle bed reactor. <i>Chemical Engineering Journal</i> , <b>2004</b> , 103, 51-57	14.7	26
124	Hydroisomerization of n-hexadecane over Pt/ZSM-22 framework: Effect of divalent cation exchange. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 404-405, 47-56		25
123	Kinetic Study and Modeling of Homogeneous Thermocatalytic Decomposition of Methane over a NiCuZn/Al <sub>2</sub> O <sub>3</sub> Catalyst for the Production of Hydrogen and Bamboo-Shaped Carbon Nanotubes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 11672-11680	3.9	25
122	Effect of K and CeO <sub>2</sub> promoters on the activity of Co/SiO <sub>2</sub> catalyst for liquid fuel production from syngas. <i>Applied Energy</i> , <b>2012</b> , 94, 385-394	10.7	25
121	Hydrogen generation from biomass materials: challenges and opportunities. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , <b>2015</b> , 4, 139-155	4.7	24
120	Efficient utilization of potash alum as a green catalyst for production of furfural, 5-hydroxymethylfurfural and levulinic acid from mono-sugars. <i>RSC Advances</i> , <b>2017</b> , 7, 41973-41979	3.7	24
119	Catalytic pyrolysis of n-heptane on unpromoted and potassium promoted calcium aluminates. <i>Chemical Engineering Journal</i> , <b>2002</b> , 87, 219-225	14.7	24
118	Synthesis of C <sub>5</sub> + hydrocarbons from low H <sub>2</sub> /CO ratio syngas over silica supported bimetallic Fe-Co catalyst. <i>Catalysis Today</i> , <b>2017</b> , 291, 133-145	5.3	23
117	Production and characterization of biocrude and biochar obtained from non-edible de-oiled seed cakes hydrothermal conversion. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2015</b> , 115, 77-86	6	23
116	Pyrolysis of methylcyclohexane: Kinetics and modelling. <i>Chemical Engineering Journal</i> , <b>1997</b> , 67, 123-129	14.7	23
115	Tuning the metal-support interaction of methane tri-reforming catalysts for industrial flue gas utilization. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 1911-1929	6.7	23



114	Understanding reaction kinetics, deprotonation and solvation of br�sted acidic protons in heteropolyacid catalyzed synthesis of biorenewable alkyl levulinates. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125916	14.7	22
113	CO-hydrogenation of syngas to fuel using silica supported FeCu catalysts: Effects of active components. <i>Fuel Processing Technology</i> , <b>2014</b> , 118, 82-89	7.2	21
112	Mass transport correlation for CO2 absorption in aqueous monoethanolamine in a continuous film contactor. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2008</b> , 47, 920-928	3.7	21
111	Insights into Microwave-Assisted Synthesis of 5-Ethoxymethylfurfural and Ethyl Levulinate Using Tungsten Disulfide as a Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1721-1729	8.3	20
110	Synthesis of carbon nanotubes by thermo catalytic decomposition of methane over Cu and Zn promoted Ni/MCM-22 catalyst. <i>Journal of Environmental Chemical Engineering</i> , <b>2013</b> , 1, 746-754	6.8	19
109	Biosorption of Textile Dye by <i>Aspergillus lentulus</i> Pellets: Process Optimization and Cyclic Removal in Aerated Bioreactor. <i>Water, Air, and Soil Pollution</i> , <b>2014</b> , 225, 1	2.6	18
108	Depolymerization of microcrystalline cellulose to value added chemicals using sulfate ion promoted zirconia catalyst. <i>Bioresource Technology</i> , <b>2016</b> , 220, 394-400	11	18
107	Mechanistic Insights into the Activity of Mo-Carbide Clusters for Methane Dehydrogenation and Carbon-Carbon Coupling Reactions To Form Ethylene in Methane Dehydroaromatization. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 11754-11764	3.8	18
106	Mass-Scale Algal Biomass Production Using Algal Biofilm Reactor and Conversion to Energy and Chemical Precursors by Hydropyrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 4234-4242	8.3	17
105	Promotional effects of Cu and Zn in hydrotalcite-derived methane tri-reforming catalyst. <i>Applied Surface Science</i> , <b>2020</b> , 515, 146010	6.7	17
104	Effect of different catalyst on the co-cracking of <i>Jatropha</i> oil, vacuum residue and high density polyethylene. <i>Fuel</i> , <b>2014</b> , 133, 96-105	7.1	17
103	Catalytic Activity of Copper Oxide Impregnated HZSM-5 in Methanol Conversion to Liquid Hydrocarbons. <i>Canadian Journal of Chemical Engineering</i> , <b>2008</b> , 83, 970-977	2.3	17
102	Synthesis and Characterization of Zirconia Supported Silicotungstic Acid for Ethyl Levulinate Production. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 16045-16054	3.9	16
101	Characterization of commercially important Asian bamboo species. <i>European Journal of Wood and Wood Products</i> , <b>2016</b> , 74, 137-139	2.1	16
100	MoS2 Nanosheets-Based Catalysts for Photocatalytic CO2 Reduction: A Review. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 8644-8667	5.6	16
99	Synergistic Effect of FeCo Bimetallic Catalyst on FTS and WGS Activity in the Fischer-Tropsch Process: A Kinetic Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 4659-4671	3.9	15
98	Hydrotalcite supported bimetallic (Ni-Cu) catalyst: A smart choice for one-pot conversion of biomass-derived platform chemicals to hydrogenated biofuels. <i>Fuel</i> , <b>2020</b> , 277, 118111	7.1	15
97	Hydroisomerization of n-hexadecane over Br�sted acid site tailored Pt/ZSM-12. <i>Journal of Porous Materials</i> , <b>2014</b> , 21, 849-857	2.4	15

96	Conceptual mechanism and kinetic studies of chelating agent assisted metal extraction process from spent catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2015</b> , 27, 373-383	6.3	15
95	Catalytic pyrolysis of methylcyclohexane: kinetics and modeling. <i>Chemical Engineering Journal</i> , <b>1998</b> , 70, 47-54	14.7	15
94	Transformation of methanol to gasoline range hydrocarbons using HZSM-5 catalysts impregnated with copper oxide. <i>Korean Journal of Chemical Engineering</i> , <b>2005</b> , 22, 353-357	2.8	15
93	Exploration of a novel biorefinery based on sequential hydropyrolysis and anaerobic digestion of algal biofilm: a comprehensive characterization of products for energy and chemical production. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1481-1495	5.8	15
92	Insights into the Synthesis of Ethyl Levulinate under Microwave and Nonmicrowave Heating Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 16055-16064	3.9	14
91	Response Surface Modeling and Optimization of CO Hydrogenation for Higher Liquid Hydrocarbon Using Cu <sub>2</sub> O <sub>2</sub> + ZSM-5 Bifunctional Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 4843-4853	3.9	14
90	Investigating the role of oxygen vacancies and basic site density in tuning methanol selectivity over Cu/CeO <sub>2</sub> catalyst during CO <sub>2</sub> hydrogenation. <i>Fuel</i> , <b>2021</b> , 303, 121289	7.1	14
89	Comprehending the contemporary state of art in biogas enrichment and CO <sub>2</sub> capture technologies via swing adsorption. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 6588-6612	6.7	13
88	The thermodynamics and biodegradability of chelating agents upon metal extraction. <i>Chemical Engineering Science</i> , <b>2015</b> , 137, 768-785	4.4	12
87	Mechanistic Kinetic Modeling of Oxidative Steam Reforming of Bioethanol for Hydrogen Production over Rh <sub>2</sub> Ni/CeO <sub>2</sub> /rO <sub>2</sub> Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 86-98	3.9	12
86	Detailed kinetics of Fischer Tropsch synthesis over Fe-Co bimetallic catalyst considering chain length dependent olefin desorption. <i>Fuel</i> , <b>2019</b> , 236, 1263-1272	7.1	12
85	Cross-Linked Porous Polymers as Heterogeneous Organocatalysts for Task-Specific Applications in Biomass Transformations, CO <sub>2</sub> Fixation, and Asymmetric Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 12431-12460	8.3	12
84	Improving enzymatic digestibility of sugarcane bagasse from different varieties of sugarcane using deep eutectic solvent pretreatment. <i>Bioresource Technology</i> , <b>2021</b> , 337, 125480	11	12
83	High level xylitol production by <i>Pichia</i> fermentans using non-detoxified xylose-rich sugarcane bagasse and olive pits hydrolysates. <i>Bioresource Technology</i> , <b>2021</b> , 342, 126005	11	12
82	Modeling of sulphonation of tridecylbenzene in a falling film reactor. <i>Mathematical and Computer Modelling</i> , <b>2007</b> , 46, 1332-1344		11
81	Dissolution of brominated epoxy resin for environment friendly recovery of copper as cupric oxide nanoparticles from waste printed circuit boards using ammonium chloride roasting. <i>Journal of Cleaner Production</i> , <b>2021</b> , 291, 125928	10.3	11
80	Statistical Optimization of Process Variables for Methane Conversion over Zn-Mo/H-ZSM-5 Catalysts in the Presence of Methanol. <i>Energy Technology</i> , <b>2013</b> , 1, 157-165	3.5	10
79	Combined experimental and kinetic modeling studies for the conversion of gasoline range hydrocarbons from methanol over modified HZSM-5 catalyst. <i>Korean Journal of Chemical Engineering</i> , <b>2010</b> , 27, 1404-1411	2.8	10



78	Production of Hydrogen With Low Carbon Monoxide Formation Via Catalytic Steam Reforming of Methanol. <i>Journal of Fuel Cell Science and Technology</i> , <b>2006</b> , 3, 369-374		10
77	Integrated biorefinery processes for conversion of lignocellulosic biomass to value added materials: Paving a path towards circular economy. <i>Bioresource Technology</i> , <b>2022</b> , 343, 126151	11	10
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