

Ajay Dalai

List of Publications by Year in descending order

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Version: 2024-02-01

138
papers

8,435
citations

43973

48
h-index

48187

88
g-index

138
all docs

138
docs citations

138
times ranked

6562
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of stable bimetallic catalysts for carbon dioxide reforming of methane. <i>Journal of Catalysis</i> , 2007, 249, 300-310.	3.1	585
2	Supercritical water gasification of biomass for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 6912-6926.	3.8	399
3	Solid acid catalyzed biodiesel production by simultaneous esterification and transesterification. <i>Green Chemistry</i> , 2006, 8, 1056.	4.6	390
4	Characterization of North American Lignocellulosic Biomass and Biochars in Terms of their Candidacy for Alternate Renewable Fuels. <i>Bioenergy Research</i> , 2013, 6, 663-677.	2.2	295
5	Pathways of lignocellulosic biomass conversion to renewable fuels. <i>Biomass Conversion and Biorefinery</i> , 2014, 4, 157-191.	2.9	290
6	Biochar as an Exceptional Bioresource for Energy, Agronomy, Carbon Sequestration, Activated Carbon and Specialty Materials. <i>Waste and Biomass Valorization</i> , 2016, 7, 201-235.	1.8	272
7	Effects of temperature on the physicochemical characteristics of fast pyrolysis bio-chars derived from Canadian waste biomass. <i>Fuel</i> , 2014, 125, 90-100.	3.4	266
8	An assessment on the sustainability of lignocellulosic biomass for biorefining. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 925-941.	8.2	223
9	Supercritical water gasification of biomass: a state-of-the-art review of process parameters, reaction mechanisms and catalysis. <i>Sustainable Energy and Fuels</i> , 2019, 3, 578-598.	2.5	210
10	Review of post-combustion carbon dioxide capture technologies using activated carbon. <i>Journal of Environmental Sciences</i> , 2019, 83, 46-63.	3.2	210
11	Gasification of fruit wastes and agro-food residues in supercritical water. <i>Energy Conversion and Management</i> , 2016, 110, 296-306.	4.4	190
12	Futuristic applications of hydrogen in energy, biorefining, aerospace, pharmaceuticals and metallurgy. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 8885-8905.	3.8	190
13	A review on subcritical and supercritical water gasification of biogenic, polymeric and petroleum wastes to hydrogen-rich synthesis gas. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109546.	8.2	184
14	Chemistry and Specialty Industrial Applications of Lignocellulosic Biomass. <i>Waste and Biomass Valorization</i> , 2021, 12, 2145-2169.	1.8	166
15	Hydrothermal pretreatment technologies for lignocellulosic biomass: A review of steam explosion and subcritical water hydrolysis. <i>Chemosphere</i> , 2021, 284, 131372.	4.2	160
16	Fischer-Tropsch synthesis over carbon nanotubes supported cobalt catalysts in a fixed bed reactor: Influence of acid treatment. <i>Fuel Processing Technology</i> , 2009, 90, 367-374.	3.7	135
17	Innovations in applications and prospects of bioplastics and biopolymers: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 379-395.	8.3	134
18	Insights on pathways for hydrogen generation from ethanol. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1232-1245.	2.5	120

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19	Hydrothermal catalytic processing of waste cooking oil for hydrogen-rich syngas production. <i>Chemical Engineering Science</i> , 2019, 195, 935-945.	1.9	112
20	Hydrogen production from lignin, cellulose and waste biomass via supercritical water gasification: Catalyst activity and process optimization study. <i>Energy Conversion and Management</i> , 2016, 117, 528-537.	4.4	109
21	Subcritical and supercritical water gasification of lignocellulosic biomass impregnated with nickel nanocatalyst for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4907-4921.	3.8	107
22	Fermentative production of butanol: Perspectives on synthetic biology. <i>New Biotechnology</i> , 2017, 37, 210-221.	2.4	107
23	Valorization of horse manure through catalytic supercritical water gasification. <i>Waste Management</i> , 2016, 52, 147-158.	3.7	104
24	Breakthrough CO ₂ adsorption in bio-based activated carbons. <i>Journal of Environmental Sciences</i> , 2015, 34, 68-76.	3.2	103
25	Esterification of Levulinic Acid to n-Butyl Levulinate Over Various Acidic Zeolites. <i>Catalysis Letters</i> , 2013, 143, 1220-1225.	1.4	99
26	Butanol and ethanol production from lignocellulosic feedstock: biomass pretreatment and bioconversion. <i>Energy Science and Engineering</i> , 2014, 2, 138-148.	1.9	94
27	Hydrothermal gasification of soybean straw and flax straw for hydrogen-rich syngas production: Experimental and thermodynamic modeling. <i>Energy Conversion and Management</i> , 2020, 208, 112545.	4.4	92
28	Supercritical water gasification of fructose as a model compound for waste fruits and vegetables. <i>Journal of Supercritical Fluids</i> , 2015, 104, 112-121.	1.6	87
29	An assessment of pinecone gasification in subcritical, near-critical and supercritical water. <i>Fuel Processing Technology</i> , 2017, 168, 84-96.	3.7	87
30	Supercritical water gasification of timothy grass as an energy crop in the presence of alkali carbonate and hydroxide catalysts. <i>Biomass and Bioenergy</i> , 2016, 95, 378-387.	2.9	86
31	Comparison of Hydrodenitrogenation of Basic and Nonbasic Nitrogen Compounds Present in Oil Sands Derived Heavy Gas Oil. <i>Energy & Fuels</i> , 2001, 15, 377-383.	2.5	84
32	A Review of Torrefaction Technology for Upgrading Lignocellulosic Biomass to Solid Biofuels. <i>Bioenergy Research</i> , 2021, 14, 645-669.	2.2	81
33	Biochar production, activation and adsorptive applications: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 2237-2259.	8.3	80
34	Next-generation biofuels and platform biochemicals from lignocellulosic biomass. <i>International Journal of Energy Research</i> , 2021, 45, 14145-14169.	2.2	79
35	Characterization and Activity of ZrO ₂ Doped SBA-15 Supported NiMo Catalysts for HDS and HDN of Bitumen Derived Heavy Gas Oil. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 7882-7895.	1.8	76
36	Optimization and modeling of process parameters during hydrothermal gasification of biomass model compounds to generate hydrogen-rich gas products. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18275-18288.	3.8	70

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37	Taguchi-based process optimization for activation of agro-food waste biochar and performance test for dye adsorption. <i>Chemosphere</i> , 2021, 285, 131531.	4.2	68
38	Catalytic gasification of cellulose and pinewood to H ₂ in supercritical water. <i>Fuel</i> , 2014, 118, 416-425.	3.4	67
39	Systematic screening and modification of Ni based catalysts for hydrogen generation from supercritical water gasification of lignin. <i>Chemical Engineering Journal</i> , 2016, 283, 1019-1032.	6.6	64
40	Review on impacts of low sulfur regulations on marine fuels and compliance options. <i>Fuel</i> , 2022, 310, 122243.	3.4	62
41	Metal-organic framework-based functional catalytic materials for biodiesel production: a review. <i>Green Chemistry</i> , 2021, 23, 2595-2618.	4.6	60
42	Modeling and process optimization of hydrothermal gasification for hydrogen production: A comprehensive review. <i>Journal of Supercritical Fluids</i> , 2021, 173, 105199.	1.6	60
43	Effects of bio-additives on the physicochemical properties and mechanical behavior of canola hull fuel pellets. <i>Renewable Energy</i> , 2019, 132, 296-307.	4.3	59
44	Slow pyrolysis of agro-food wastes and physicochemical characterization of biofuel products. <i>Chemosphere</i> , 2021, 285, 131431.	4.2	56
45	Lignocellulosic Biomass: A Review of Conversion Technologies and Fuel Products. <i>Current Biochemical Engineering</i> , 2015, 3, 24-36.	1.3	53
46	Techno-economic evaluation and sensitivity analysis of a conceptual design for supercritical water gasification of soybean straw to produce hydrogen. <i>Bioresource Technology</i> , 2021, 331, 125005.	4.8	52
47	Combined Effects of EDTA and Heteroatoms (Ti, Zr, and Al) on Catalytic Activity of SBA-15 Supported NiMo Catalyst for Hydrotreating of Heavy Gas Oil. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 2137-2156.	1.8	51
48	Noncatalytic Gasification of Lignin in Supercritical Water Using a Batch Reactor for Hydrogen Production: An Experimental and Modeling Study. <i>Energy & Fuels</i> , 2015, 29, 1776-1784.	2.5	50
49	Investigating the applicability of Athabasca bitumen as a feedstock for hydrogen production through catalytic supercritical water gasification. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 182-189.	3.3	50
50	Physico-chemistry of biochars produced through steam gasification and hydro-thermal gasification of canola hull and canola meal pellets. <i>Biomass and Bioenergy</i> , 2019, 120, 458-470.	2.9	50
51	Lewis acid catalyzed gasification of humic acid in supercritical water. <i>Catalysis Today</i> , 2017, 291, 13-23.	2.2	47
52	Studies on the Performance of a Microscale Trickle Bed Reactor Using Different Sizes of Diluent. <i>Energy & Fuels</i> , 2000, 14, 701-705.	2.5	45
53	Study on the quality of oat hull fuel pellets using bio-additives. <i>Biomass and Bioenergy</i> , 2017, 106, 166-175.	2.9	45
54	Comparative evaluation for catalytic gasification of petroleum coke and asphaltene in subcritical and supercritical water. <i>Journal of Energy Chemistry</i> , 2019, 31, 107-118.	7.1	43

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55	Catalytic conversion of lignocellulosic polysaccharides to commodity biochemicals: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 4119-4136.	8.3	43
56	Thermal and Kinetic Studies on Biomass Degradation via Thermogravimetric Analysis: A Combination of Model-Fitting and Model-Free Approach. <i>ACS Omega</i> , 2021, 6, 22233-22247.	1.6	39
57	Carbon dioxide capture from flue gas in biochar produced from spent coffee grounds: Effect of surface chemistry and porous structure. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106049.	3.3	39
58	A Review of Biomass Resources and Thermochemical Conversion Technologies. <i>Chemical Engineering and Technology</i> , 2022, 45, 791-799.	0.9	39
59	Evaluating the potential for bio-fuel upgrading: A comprehensive analysis of bio-crude and bio-residue from hydrothermal liquefaction of agricultural biomass. <i>Applied Energy</i> , 2019, 254, 113679.	5.1	38
60	Subcritical water hydrolysis of Phragmites for sugar extraction and catalytic conversion to platform chemicals. <i>Biomass and Bioenergy</i> , 2021, 145, 105965.	2.9	36
61	Effect of diluent size on the performance of a micro-scale fixed bed multiphase reactor in up flow and down flow modes of operation. <i>Catalysis Today</i> , 2001, 64, 333-345.	2.2	35
62	Supercritical water gasification of biomass in diamond anvil cells and fluidized beds. <i>Biofuels, Bioproducts and Biorefining</i> , 2014, 8, 728-737.	1.9	35
63	Thermo-physical characterization of torrefied fuel pellet from co-pelletization of canola hulls and meal. <i>Industrial Crops and Products</i> , 2019, 128, 424-435.	2.5	35
64	Subcritical water gasification of lignocellulosic wastes for hydrogen production with Co modified Ni/Al ₂ O ₃ catalysts. <i>Journal of Supercritical Fluids</i> , 2020, 162, 104863.	1.6	34
65	Biodegradation of a surrogate naphthenic acid under denitrifying conditions. <i>Water Research</i> , 2014, 51, 11-24.	5.3	33
66	Canola meal moisture-resistant fuel pellets: Study on the effects of process variables and additives on the pellet quality and compression characteristics. <i>Industrial Crops and Products</i> , 2015, 63, 337-348.	2.5	33
67	Hydrogen generation via supercritical water gasification of lignin using Ni-Co/Mg-Al catalysts. <i>International Journal of Energy Research</i> , 2017, 41, 1835-1846.	2.2	33
68	Catalytic Supercritical Water Gasification of Soybean Straw: Effects of Catalyst Supports and Promoters. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 5770-5782.	1.8	31
69	Characteristics of torrefied fuel pellets obtained from co-pelletization of agriculture residues with pyrolysis oil. <i>Biomass and Bioenergy</i> , 2021, 150, 106139.	2.9	30
70	Enhancement of fuel and physicochemical properties of canola residues via microwave torrefaction. <i>Energy Reports</i> , 2021, 7, 6338-6353.	2.5	30
71	Catalytic gasification of light and heavy gas oils in supercritical water. <i>Journal of the Energy Institute</i> , 2020, 93, 2025-2032.	2.7	29
72	Physicochemical and Fuel Characteristics of Torrefied Agricultural Residues for Sustainable Fuel Production. <i>Energy & Fuels</i> , 2020, 34, 14169-14181.	2.5	27

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73	Isolation of cellulose fibers from wetland reed grass through an integrated subcritical water hydrolysis-pulping-bleaching process. <i>Fuel</i> , 2022, 311, 122618.	3.4	27
74	Physico-Chemical Evolution in Lignocellulosic Feedstocks During Hydrothermal Pretreatment and Delignification. <i>Journal of Biobased Materials and Bioenergy</i> , 2015, 9, 295-308.	0.1	25
75	Process optimization and investigating the effects of torrefaction and pelletization on steam gasification of canola residue. <i>Fuel</i> , 2022, 323, 124239.	3.4	25
76	Oxidative Desulfurization of Heavy Gas Oil over a TiO ₂ -TUD-1-Supported Keggin-Type Molybdenum Heteropolyacid. <i>Energy & Fuels</i> , 2020, 34, 15299-15312.	2.5	24
77	Synthesis and Characterization of Co/C and Fe/C Nanocatalysts for Fischer-Tropsch Synthesis: A Comparative Study Using a Fixed-Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10661-10674.	1.8	23
78	Selective removal of nitrogen compounds from gas oil using functionalized polymeric adsorbents: Efficient approach towards improving denitrogenation of petroleum feedstock. <i>Chemical Engineering Journal</i> , 2016, 295, 109-118.	6.6	23
79	Effects of Natural Additives on the Properties of Sawdust Fuel Pellets. <i>Energy & Fuels</i> , 2018, 32, 1863-1873.	2.5	22
80	Rice husk mediated synthesis of meso-ZSM-5 and its application in the synthesis of n-butyl levulinate. <i>Journal of Porous Materials</i> , 2019, 26, 677-686.	1.3	22
81	Water Removal from Ethanol Vapor by Adsorption on Canola Meal after Protein Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 14429-14440.	1.8	21
82	Functionalization and Characterization of Carbon Nanohorns (CNHs) for Hydrotreating of Gas Oils. <i>Topics in Catalysis</i> , 2014, 57, 796-805.	1.3	21
83	Complementary effects of torrefaction and pelletization for the production of fuel pellets from agricultural residues: A comparative study. <i>Industrial Crops and Products</i> , 2022, 181, 114740.	2.5	21
84	Immobilization of fluorenone derived π -acceptors on poly (GMA-co-EGDMA) for the removal of refractory nitrogen species from bitumen derived gas oil. <i>Fuel</i> , 2015, 145, 100-108.	3.4	20
85	Ethanol Dehydration in a Pressure Swing Adsorption Process Using Canola Meal. <i>Energy & Fuels</i> , 2013, 27, 6655-6664.	2.5	19
86	Production of anhydrous biobutanol using a biosorbent developed from oat hulls. <i>Chemical Engineering Journal</i> , 2019, 356, 830-838.	6.6	19
87	Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Characterization of Treated Athabasca Oil Sands Processed Waters. <i>Energy & Fuels</i> , 2015, 29, 2768-2773.	2.5	18
88	Effects of promoters (Mn, Mg, Co and Ni) on the Fischer-Tropsch activity and selectivity of KCuFe/mesoporous-alumina catalyst. <i>Applied Catalysis A: General</i> , 2020, 607, 117861.	2.2	18
89	Catalytic hydrothermal co-gasification of canola meal and low-density polyethylene using mixed metal oxides for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 42084-42098.	3.8	18
90	Ethanol Dehydration in a Fixed Bed Using Canola Meal. <i>Energy & Fuels</i> , 2012, 26, 5226-5231.	2.5	17

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91	EFFECT OF PRETREATMENT CONDITIONS ON STRUCTURAL CHARACTERISTICS OF WHEAT STRAW. <i>Chemical Engineering Communications</i> , 2013, 200, 1251-1259.	1.5	17
92	Low-temperature Fischer-Tropsch synthesis using plasma-synthesized nanometric Co/C and Fe/C catalysts. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 1504-1515.	0.9	17
93	Ultrasound-assisted oxidative desulfurization of Arabian extra light oil (AXL) with molecular characterization of the sulfur compounds. <i>Fuel</i> , 2021, 305, 121612.	3.4	17
94	Gasification of Canola Meal and Factors Affecting Gasification Process. <i>Bioenergy Research</i> , 2014, 7, 1131-1143.	2.2	16
95	Physiochemical characterization and support interaction of alumina-supported heteropolyacid catalyst for biodiesel production. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018, 13, e2249.	0.8	16
96	A review of thermocatalytic conversion of biogenic wastes into crude biofuels and biochemical precursors. <i>Fuel</i> , 2022, 320, 123857.	3.4	16
97	Agricultural byproducts-based biosorbents for purification of bioalcohols: a review. <i>Bioresources and Bioprocessing</i> , 2018, 5, .	2.0	15
98	Optimization studies for hydrothermal gasification of partially burnt wood from forest fires for hydrogen-rich syngas production using Taguchi experimental design. <i>Environmental Pollution</i> , 2021, 283, 117040.	3.7	15
99	Pelletization of torrefied canola residue: Effects of microwave power, residence time and bio-additives on fuel pellet quality. <i>Fuel</i> , 2022, 312, 122728.	3.4	15
100	Experimental and Modeling Studies of Torrefaction of Spent Coffee Grounds and Coffee Husk: Effects on Surface Chemistry and Carbon Dioxide Capture Performance. <i>ACS Omega</i> , 2022, 7, 638-653.	1.6	15
101	Atomic Layer Deposition ZnO Over-Coated Cu/SiO ₂ Catalysts for Methanol Synthesis from CO ₂ Hydrogenation. <i>Catalysts</i> , 2019, 9, 922.	1.6	14
102	Catalytic hydrodeoxygenation of bio-oil model compound for production of fuel grade oil. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2019, 14, e2317.	0.8	13
103	Production of jet fuel by hydrorefining of Fischer-Tropsch wax over Pt/Al-TUD-1 bifunctional catalyst. <i>Fuel</i> , 2021, 300, 121008.	3.4	13
104	Pyrolysis kinetics and activation thermodynamic parameters of exhausted coffee residue and coffee husk using thermogravimetric analysis. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 1683-1695.	0.9	12
105	Synthesis and Characterization of Functionalized Poly(glycidyl methacrylate)-Based Particles for the Selective Removal of Nitrogen Compounds from Light Gas Oil: Effect of Linker Length. <i>Energy & Fuels</i> , 2015, 29, 1881-1891.	2.5	11
106	Selective Water Removal by Sorption from Butanol-Water Vapor Mixtures: Analyses of Key Operating Parameters and Site Energy Distribution. <i>Energy & Fuels</i> , 2017, 31, 5193-5202.	2.5	11
107	Steam and supercritical water gasification of densified canola meal fuel pellets. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 42013-42026.	3.8	10
108	Hydrothermal flames for subaquatic, terrestrial and extraterrestrial applications. <i>Journal of Hazardous Materials</i> , 2022, 424, 127520.	6.5	9

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109	Hydrotreating and oxidative desulfurization of heavy fuel oil into low sulfur marine fuel over dual function NiMo/β-Al ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2023, 407, 165-171.	2.2	9
110	Extraction of Sugars and Cellulose Fibers from <i>Cannabis</i> Stems by Hydrolysis, Pulping, and Bleaching. <i>Chemical Engineering and Technology</i> , 2022, 45, 962-970.	0.9	9
111	Catalytic oxidative desulfurization of light gas oil over Keggin-type phosphomolybdic acid supported on TUD-1 metallosilicates. <i>Fuel</i> , 2022, 317, 123447.	3.4	8
112	Removal of dicyclohexyl acetic acid from aqueous solution using ultrasound, ozone and their combination. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014, 49, 1512-1519.	0.9	7
113	Hydroprocessing of Oleic Acid for Production of Jet-Fuel Range Hydrocarbons over Cu and FeCu Catalysts. <i>Catalysts</i> , 2019, 9, 1051.	1.6	7
114	Comparative Studies of Carbon Nanomaterial and γ-Alumina as Supports for the Ni-Mo Catalyst in Hydrotreating of Gas Oils. <i>Energy & Fuels</i> , 2021, 35, 6153-6166.	2.5	7
115	A Spotlight on Butanol and Propanol as Next-Generation Synthetic Fuels. , 2020, , 105-126.		7
116	Comparative Catalytic Performance Study of 12-Tungstophosphoric Heteropoly Acid Supported on Mesoporous Supports for Biodiesel Production from Unrefined Green Seed Canola Oil. <i>Catalysts</i> , 2022, 12, 658.	1.6	7
117	Deposition of fine particles of gas oil on hydrotreating catalyst: Impact of process parameters and filtration trends. <i>Fuel Processing Technology</i> , 2018, 171, 223-231.	3.7	6
118	Hydrogen production from cotton stalk over Ni-La catalysts supported on spent bleaching clay via hydrothermal gasification. <i>Industrial Crops and Products</i> , 2022, 186, 115228.	2.5	6
119	Drying of nonpolar gas in a pressure swing adsorption process using canola meal biosorbents. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018, 13, e2232.	0.8	5
120	Influence of Catalyst Acidity on Fine Particle Deposition during Hydrotreating of Bitumen-Derived Heavy Gas Oil. <i>Energy & Fuels</i> , 2021, 35, 16735-16749.	2.5	5
121	Influence of pretreatment conditions on composition of liquid hydrolysate and subsequent enzymatic saccharification of remaining solids. <i>Canadian Journal of Chemical Engineering</i> , 2013, 91, 1223-1228.	0.9	4
122	Selective adsorption of water from aqueous butanol solution using canola-meal-based biosorbents. <i>Chemical Engineering Communications</i> , 2018, 205, 637-646.	1.5	4
123	Dynamics of Water Adsorption from Butanol-Water Vapor in a Biosorbent Packed Column. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15619-15627.	1.8	4
124	Dynamic Study of Butanol and Water Adsorption onto Oat Hull: Experimental and Simulated Breakthrough Curves. <i>Energy & Fuels</i> , 2019, 33, 9835-9842.	2.5	4
125	TPA Supported on SBA-15 as Solid Acid Catalysts for the Biodiesel Production. <i>ACS Symposium Series</i> , 2012, , 93-109.	0.5	3
126	Hydroprocessing of oleic acid for production of jet fuel range hydrocarbons over Sn(1)-Fe(3)-Cu(13)/SiO ₂ -Al ₂ O ₃ catalyst: Process parameters optimization, kinetics, and thermodynamic study. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, e2621.	0.8	3

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127	Biocrude Oil Production via Hydrothermal Liquefaction of Algae and Upgradation Techniques to Liquid Transportation Fuels. , 2020, , 249-270.		3
128	Oxidative Desulfurization of Tire Pyrolysis Oil over Molybdenum Heteropolyacid Loaded Mesoporous Catalysts. Reactions, 2021, 2, 457-472.	0.9	3
129	Adsorptive Removal of Nitrogen, Sulfur, and Aromatic Compounds from Gas Oil by Poly(glycidyl) Ether Methacrylate (PGMA) /Overlock 2430-2438.	1.0784314 2.5	2
130	Maximization of Carbon Nanohorns Production via the Arc Discharge Method for Hydrotreating Application. Journal of Nanoscience and Nanotechnology, 2017, 17, 4784-4791.	0.9	2
131	Equilibrium Study and Analysis of Site Energy Distribution of Butanol Sorption on a Biosorbent. Energy & Fuels, 2021, 35, 6681-6690.	2.5	2
132	Thermochemical conversion of organic waste: New horizons for production of green energy. , 2022, , 1-21.		2
133	Hydrothermal processing of waste pine wood into industrially useful products. Journal of the Indian Chemical Society, 2022, 99, 100647.	1.3	2
134	Process Improvements and Techno-Economic Feasibility of Hydrothermal Liquefaction and Pyrolysis of Biomass for Biocrude Oil Production. , 2020, , 221-248.		1
135	Deposition of Fine Particles during Hydrotreating of Oil Sands Bitumen-Derived Heavy Gas Oil in a Packed Bed Reactor: Impact of Process Parameters and Surface Charge. Industrial & Engineering Chemistry Research, 0, , .	1.8	1
136	Insights into the integrated effects of polymeric pretreatment and catalytic hydrotreatment of light gas oil. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2285.	0.8	0
137	Growth of Biofuels Sector: Opportunities, Challenges, and Outlook. , 2020, , 1-21.		0
138	Synthesis and Characterization of NiMo Catalysts Supported on Fine Carbon Particles for Hydrotreating: Effects of Metal Loadings in Catalyst Formulation. Frontiers in Chemical Engineering, 2022, 3, .	1.3	0