

Sungyup Jung

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.

81
papers

1,232
citations

18
h-index

32
g-index

86
ext. papers

1,900
ext. citations

9.4
avg, IF

5.78
L-index

#	Paper	IF	Citations
81	Carbothermic reduction of spent Lithium-Ion batteries using CO ₂ as reaction medium. <i>Chemical Engineering Journal</i> , 2022 , 435, 135165	14.7	0
80	Disposal of plastic mulching film through CO-assisted catalytic pyrolysis as a strategic means for microplastic mitigation.. <i>Journal of Hazardous Materials</i> , 2022 , 430, 128454	12.8	1
79	Simultaneous productions of biodiesel and biochar from krill. <i>Journal of Cleaner Production</i> , 2022 , 335, 130296	10.3	1
78	Biodiesel production from the black soldier fly larvae grown on food waste and its fuel property characterization as a potential transportation fuel. <i>Environmental Engineering Research</i> , 2022 , 27, 200704-0	3.6	4
77	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022 , 1-51	16.1	58
76	Direct conversion of yellow mealworm larvae into biodiesel via a non-catalytic transesterification platform. <i>Chemical Engineering Journal</i> , 2022 , 427, 131782	14.7	3
75	Functional use of CO to mitigate the formation of bisphenol A in catalytic pyrolysis of polycarbonate. <i>Journal of Hazardous Materials</i> , 2022 , 423, 126992	12.8	2
74	Biodiesel production from black soldier fly larvae derived from food waste by non-catalytic transesterification. <i>Energy</i> , 2022 , 238, 121700	7.9	7
73	Strategic management of harmful chemicals produced from pyrolysis of plastic cup waste using CO ₂ as a reaction medium. <i>Chemical Engineering Journal</i> , 2022 , 437, 135524	14.7	1
72	Valorizing plastic toy wastes to flammable gases through CO-mediated pyrolysis with a Co-based catalyst.. <i>Journal of Hazardous Materials</i> , 2022 , 434, 128850	12.8	0
71	Production of flammable gases from cattle manure via pyrolysis using CO ₂ as an oxidant. <i>International Journal of Energy Research</i> , 2022 , 46, 6806-6816	4.5	
70	Sustainable valorization of styrofoam and CO into syngas.. <i>Science of the Total Environment</i> , 2022 , 155384-0	10.2	0
69	Control of the fate of toxic pollutants from catalytic pyrolysis of polyurethane by oxidation using CO ₂ . <i>Chemical Engineering Journal</i> , 2022 , 442, 136358	14.7	1
68	Upgrading spent battery separator into syngas and hydrocarbons through CO ₂ -Assisted thermochemical platform. <i>Energy</i> , 2021 , 122552	7.9	1
67	Biofuel Production as an Example of Virtuous Valorization of Swine Manure. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 13761-13772	8.3	2
66	Direct conversion of Camellia japonica seed into biodiesel through non-catalytic transesterification. <i>Industrial Crops and Products</i> , 2021 , 174, 114194	5.9	1
65	Synergistic benefits for hydrogen production through CO ₂ -cofeeding catalytic pyrolysis of cellulosic biomass waste. <i>Cellulose</i> , 2021 , 28, 4781-4792	5.5	3

64	Comparative study on carbon dioxide-cofed catalytic pyrolysis of grass and woody biomass. <i>Bioresource Technology</i> , 2021 , 323, 124633	11	12
63	CO-assisted catalytic pyrolysis of cellulose acetate using Ni-based catalysts. <i>Environmental Pollution</i> , 2021 , 275, 116667	9.3	3
62	Biodiesel synthesis from bio-heavy oil through thermally induced transesterification. <i>Journal of Cleaner Production</i> , 2021 , 294, 126347	10.3	10
61	Catalytic pyrolysis of pine bark over Ni/SiO ₂ in a CO ₂ atmosphere. <i>Energy</i> , 2021 , 220, 119827	7.9	8
60	Synthesis of different biofuels from livestock waste materials and their potential as sustainable feedstocks [A review]. <i>Energy Conversion and Management</i> , 2021 , 236, 114038	10.6	34
59	A new upgrading platform for livestock lignocellulosic waste into syngas using CO ₂ -assisted thermo-chemical process. <i>Energy Conversion and Management</i> , 2021 , 236, 114084	10.6	4
58	Strategic disposal of flood debris via CO-assisted catalytic pyrolysis. <i>Journal of Hazardous Materials</i> , 2021 , 412, 125242	12.8	3
57	Catalytic pyrolysis of plastics derived from end-of-life-vehicles (ELVs) under the CO ₂ environment. <i>International Journal of Energy Research</i> , 2021 , 45, 16781-16793	4.5	3
56	Upgrading biogas into syngas through dry reforming. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 143, 110949	16.2	32
55	Virtuous utilization of biochar and carbon dioxide in the thermochemical process of dairy cattle manure. <i>Chemical Engineering Journal</i> , 2021 , 416, 129110	14.7	8
54	Mitigation of harmful chemical formation from pyrolysis of tobacco waste using CO. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123416	12.8	5
53	Valorization of disposable COVID-19 mask through the thermo-chemical process. <i>Chemical Engineering Journal</i> , 2021 , 405, 126658	14.7	81
52	Valorization of animal manure: A case study of bioethanol production from horse manure. <i>Chemical Engineering Journal</i> , 2021 , 403, 126345	14.7	10
51	Valorization of synthetic textile waste using CO as a raw material in the catalytic pyrolysis process. <i>Environmental Pollution</i> , 2021 , 268, 115916	9.3	10
50	Quantitative study on lipid productivity of <i>Euglena gracilis</i> and its biodiesel production according to the cultivation conditions. <i>Journal of Cleaner Production</i> , 2021 , 291, 125218	10.3	8
49	Leveraging carbon dioxide to control the H ₂ /CO ratio in catalytic pyrolysis of fishing net waste. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 138, 110559	16.2	5
48	Catalytic hydrodeoxygenation for upgrading of lignin-derived bio-oils 2021 , 129-145		1
47	Structure-Property Relationships of Silylamine-Type Reversible Ionic Liquids for Use as a Switchable Electrolyte. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 036516	3.9	

46	Valorization of a spent lithium-ion battery electrolyte through syngas formation using CO ₂ -assisted catalytic thermolysis over a battery cathode material. <i>Journal of CO₂ Utilization</i> , 2021 , 50, 101591	7.6	2
45	Valorization of aflatoxin contaminated peanut into biodiesel through non-catalytic transesterification. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125845	12.8	7
44	Biodiesels from non-catalytic transesterification of plant oils and their performances as aviation fuels. <i>Energy Conversion and Management</i> , 2021 , 244, 114479	10.6	6
43	Progress in quantitative analysis of microplastics in the environment: A review. <i>Chemical Engineering Journal</i> , 2021 , 422, 130154	14.7	25
42	Synergistic effects of CO on complete thermal degradation of plastic waste mixture through a catalytic pyrolysis platform: A case study of disposable diaper. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126537	12.8	4
41	Strategic way for valorization of manure into chemicals and fuels. <i>Journal of Cleaner Production</i> , 2021 , 322, 129109	10.3	1
40	Valorization of carbon dioxide and waste (Derived from the site of Eutrophication) into syngas using a catalytic thermo-chemical platform. <i>Bioresource Technology</i> , 2021 , 341, 125858	11	0
39	Synergistic use of carbon dioxide in catalytic pyrolysis of chlorella vulgaris over Ni and Co catalysts. <i>Energy</i> , 2020 , 211, 118710	7.9	3
38	Synergistic effects of CO ₂ on ex situ catalytic pyrolysis of lignocellulosic biomass over a Ni/SiO ₂ catalyst. <i>Journal of CO₂ Utilization</i> , 2020 , 39, 101182	7.6	14
37	CO ₂ effects on catalytic pyrolysis of yard trimming over concrete waste. <i>Chemical Engineering Journal</i> , 2020 , 396, 125331	14.7	8
36	CO ₂ -Mediated catalytic pyrolysis of rice straw for syngas production and power generation. <i>Energy Conversion and Management</i> , 2020 , 220, 113057	10.6	14
35	Power generation using rice husk derived fuels from CO ₂ -assisted catalytic pyrolysis over Co/Al ₂ O ₃ . <i>Energy</i> , 2020 , 206, 118143	7.9	6
34	Functional use of CO ₂ for environmentally benign production of hydrogen through catalytic pyrolysis of polymeric waste. <i>Chemical Engineering Journal</i> , 2020 , 399, 125889	14.7	15
33	Use of steel slag as a catalyst in CO-cofeeding pyrolysis of pine sawdust. <i>Journal of Hazardous Materials</i> , 2020 , 392, 122275	12.8	10
32	Catalytic pyrolysis of cow manure over a Ni/SiO ₂ catalyst using CO ₂ as a reaction medium. <i>Energy</i> , 2020 , 195, 117077	7.9	13
31	CO-cofed catalytic pyrolysis of tea waste over Ni/SiO for the enhanced formation of syngas. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122637	12.8	18
30	Using CO as an Oxidant in the Catalytic Pyrolysis of Peat Moss from the North Polar Region. <i>Environmental Science & Technology</i> , 2020 , 54, 6329-6343	10.3	25
29	Golden Pothos viability in engineered mixed bed growth media containing ionic liquids for plant-based building air filtration systems. <i>Rhizosphere</i> , 2020 , 15, 100209	3.5	

28	A new biorefinery platform for producing (C) bioalcohols through the biological/chemical hybridization process. <i>Bioresource Technology</i> , 2020 , 311, 123568	11	19
27	Bioelectrochemical systems for a circular bioeconomy. <i>Bioresource Technology</i> , 2020 , 300, 122748	11	45
26	CO ₂ -cofeeding catalytic pyrolysis of macadamia nutshell. <i>Journal of CO₂ Utilization</i> , 2020 , 37, 97-105	7.6	15
25	Catalytic pyrolytic platform for scrap tires using CO ₂ and steel slag. <i>Applied Energy</i> , 2020 , 259, 114164	10.7	19
24	CO ₂ to fuel via pyrolysis of banana peel. <i>Chemical Engineering Journal</i> , 2020 , 392, 123774	14.7	17
23	Synthesis of nickel/biochar composite from pyrolysis of <i>Microcystis aeruginosa</i> and its practical use for syngas production. <i>Bioresource Technology</i> , 2020 , 300, 122712	11	29
22	Valorization of swine manure biochar as a catalyst for transesterifying waste cooking oil into biodiesel. <i>Environmental Pollution</i> , 2020 , 266, 115377	9.3	9
21	Study on carbon rearrangements of CO ₂ co-feeding pyrolysis of corn stover and oak wood. <i>Journal of CO₂ Utilization</i> , 2020 , 42, 101320	7.6	7
20	Strategic use of CO ₂ in the catalytic thermolysis of bio-heavy oil over Co/SiO ₂ for the enhanced production of syngas. <i>Energy Conversion and Management</i> , 2020 , 222, 113195	10.6	9
19	Valorization of Phytoremediation Byproduct via Synthesis of Biodiesel from Cockspur Grass (<i>Echinochloa crus-galli</i>) Seed. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 11588-11595	8.3	8
18	Biodiesel synthesis from swine manure. <i>Bioresource Technology</i> , 2020 , 317, 124032	11	5
17	Offering a new option to valorize hen manure by CO ₂ -assisted catalytic pyrolysis over biochar and metal catalysts. <i>Journal of CO₂ Utilization</i> , 2020 , 42, 101344	7.6	8
16	Exploiting starfish in pyrolysis for the enhanced generation of syngas and CO ₂ -looping agent. <i>Journal of Cleaner Production</i> , 2020 , 276, 123228	10.3	
15	Catalytic Pyrolysis of Polystyrene over Steel Slag under CO Environment. <i>Journal of Hazardous Materials</i> , 2020 , 395, 122576	12.8	33
14	Recent advances in hydrodeoxygenation of biomass-derived oxygenates over heterogeneous catalysts. <i>Green Chemistry</i> , 2019 , 21, 3715-3743	10	233
13	Strategic use of biochar for CO ₂ capture and sequestration. <i>Journal of CO₂ Utilization</i> , 2019 , 32, 128-139	7.6	91
12	Carbon dioxide-cofeeding pyrolysis of pine sawdust over nickel-based catalyst for hydrogen production. <i>Energy Conversion and Management</i> , 2019 , 201, 112140	10.6	32
11	Enhanced activity for electrochemical hydrogenation and hydrogenolysis of furfural to biofuel using electrodeposited Cu catalysts. <i>Catalysis Today</i> , 2019 , 323, 26-34	5.3	32

10	Controlling Competitive Side Reactions in the Electrochemical Upgrading of Furfural to Biofuel. <i>Energy Technology</i> , 2018 , 6, 1370-1379	3.5	25
9	Electrocatalytic Hydrogenation and Hydrogenolysis of Furfural and the Impact of Homogeneous Side Reactions of Furanic Compounds in Acidic Electrolytes. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6500-6508	8.3	53
8	Liquid-Assisted Grinding to Prepare a Cocrystal of Adefovir Dipivoxil Thermodynamically Less Stable than Its Neat Phase. <i>Crystals</i> , 2015 , 5, 583-591	2.3	12
7	Ionicity Analysis of Silylamine-Type Reversible Ionic Liquids as a Model Switchable Electrolyte. <i>Journal of the Electrochemical Society</i> , 2015 , 162, H460-H465	3.9	2
6	Phase Transformation of Adefovir Dipivoxil/Succinic Acid Cocrystals Regulated by Polymeric Additives. <i>Polymers</i> , 2014 , 6, 1-11	4.5	8
5	Structures and physical properties of the cocrystals of adefovir dipivoxil with dicarboxylic acids. <i>Journal of Crystal Growth</i> , 2013 , 373, 59-63	1.6	17
4	Effects of Polymers on the Cocrystallization of Adefovir Dipivoxil and Suberic Acid. <i>Porrime</i> , 2013 , 37, 663-668	1	5
3	Bis[(2,2-dimethyl-propano-yloxy)meth-yl] {[2-(6-amino-9H-purin-9-yl)eth-oxy]meth-yl}phospho-nate-succinic acid (2/1). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o809-10		3
2	Pyrolysis of rice husk using CO ₂ for enhanced energy production and soil amendment. <i>Energy and Environment</i> , 0958305X2210794	2.4	
1	Use of CO ₂ and nylon as the raw materials for flammable gas production through a catalytic thermo-chemical process. <i>Green Chemistry</i> ,	10	3