Sungyup Jung

List of Publications by Citations

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	Recent advances in hydrodeoxygenation of biomass-derived oxygenates over heterogeneous catalysts. *Green Chemistry*, **2019**, 21, 3715-3743	10	233
80	Strategic use of biochar for CO2 capture and sequestration. *Journal of CO2 Utilization*, **2019**, 32, 128-139	7.6	91
79	Valorization of disposable COVID-19 mask through the thermo-chemical process. *Chemical Engineering Journal*, **2021**, 405, 126658	14.7	81
78	Multifunctional applications of biochar beyond carbon storage. *International Materials Reviews*, **2022**, 1-51	16.1	58
77	Electrocatalytic Hydrogenation and Hydrogenolysis of Furfural and the Impact of Homogeneous Side Reactions of Furanic Compounds in Acidic Electrolytes. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 6500-6508	8.3	53
76	Bioelectrochemical systems for a circular bioeconomy. *Bioresource Technology*, **2020**, 300, 122748	11	45
75	Synthesis of different biofuels from livestock waste materials and their potential as sustainable feedstocks – A review. *Energy Conversion and Management*, **2021**, 236, 114038	10.6	34
74	Catalytic Pyrolysis of Polystyrene over Steel Slag under CO Environment. *Journal of Hazardous Materials*, **2020**, 395, 122576	12.8	33
73	Carbon dioxide-cofeeding pyrolysis of pine sawdust over nickle-based catalyst for hydrogen production. *Energy Conversion and Management*, **2019**, 201, 112140	10.6	32
72	Upgrading biogas into syngas through dry reforming. *Renewable and Sustainable Energy Reviews*, **2021**, 143, 110949	16.2	32
71	Enhanced activity for electrochemical hydrogenation and hydrogenolysis of furfural to biofuel using electrodeposited Cu catalysts. *Catalysis Today*, **2019**, 323, 26-34	5.3	32
70	Synthesis of nickel/biochar composite from pyrolysis of Microcystis aeruginosa and its practical use for syngas production. *Bioresource Technology*, **2020**, 300, 122712	11	29
69	Using CO as an Oxidant in the Catalytic Pyrolysis of Peat Moss from the North Polar Region. *Environmental Science & Technology*, **2020**, 54, 6329-6343	10.3	25
68	Controlling Competitive Side Reactions in the Electrochemical Upgrading of Furfural to Biofuel. *Energy Technology*, **2018**, 6, 1370-1379	3.5	25
67	Progress in quantitative analysis of microplastics in the environment: A review. *Chemical Engineering Journal*, **2021**, 422, 130154	14.7	25
66	A new biorefinery platform for producing (C) bioalcohols through the biological/chemical hybridization process. *Bioresource Technology*, **2020**, 311, 123568	11	19
65	Catalytic pyrolytic platform for scrap tires using CO2 and steel slag. *Applied Energy*, **2020**, 259, 114164	10.7	19

64	CO-cofed catalytic pyrolysis of tea waste over Ni/SiO for the enhanced formation of syngas. *Journal of Hazardous Materials*, **2020**, 396, 122637	12.8	18
63	Structures and physical properties of the cocrystals of adefovir dipivoxil with dicarboxylic acids. *Journal of Crystal Growth*, **2013**, 373, 59-63	1.6	17
62	CO2 to fuel via pyrolysis of banana peel. *Chemical Engineering Journal*, **2020**, 392, 123774	14.7	17
61	Functional use of CO2 for environmentally benign production of hydrogen through catalytic pyrolysis of polymeric waste. *Chemical Engineering Journal*, **2020**, 399, 125889	14.7	15
60	CO2-cofeeding catalytic pyrolysis of macadamia nutshell. *Journal of CO2 Utilization*, **2020**, 37, 97-105	7.6	15
59	Synergistic effects of CO2 on ex situ catalytic pyrolysis of lignocellulosic biomass over a Ni/SiO2 catalyst. *Journal of CO2 Utilization*, **2020**, 39, 101182	7.6	14
58	CO2-Mediated catalytic pyrolysis of rice straw for syngas production and power generation. *Energy Conversion and Management*, **2020**, 220, 113057	10.6	14
57	Catalytic pyrolysis of cow manure over a Ni/SiO2 catalyst using CO2 as a reaction medium. *Energy*, **2020**, 195, 117077	7.9	13
56	Liquid-Assisted Grinding to Prepare a Cocrystal of Adefovir Dipivoxil Thermodynamically Less Stable than Its Neat Phase. *Crystals*, **2015**, 5, 583-591	2.3	12
55	Comparative study on carbon dioxide-cofed catalytic pyrolysis of grass and woody biomass. *Bioresource Technology*, **2021**, 323, 124633	11	12
54	Use of steel slag as a catalyst in CO-cofeeding pyrolysis of pine sawdust. *Journal of Hazardous Materials*, **2020**, 392, 122275	12.8	10
53	Biodiesel synthesis from bio-heavy oil through thermally induced transesterification. *Journal of Cleaner Production*, **2021**, 294, 126347	10.3	10
52	Valorization of animal manure: A case study of bioethanol production from horse manure. *Chemical Engineering Journal*, **2021**, 403, 126345	14.7	10
51	Valorization of synthetic textile waste using CO as a raw material in the catalytic pyrolysis process. *Environmental Pollution*, **2021**, 268, 115916	9.3	10
50	Valorization of swine manure biochar as a catalyst for transesterifying waste cooking oil into biodiesel. *Environmental Pollution*, **2020**, 266, 115377	9.3	9
49	Strategic use of CO2 in the catalytic thermolysis of bio-heavy oil over Co/SiO2 for the enhanced production of syngas. *Energy Conversion and Management*, **2020**, 222, 113195	10.6	9
48	CO2 effects on catalytic pyrolysis of yard trimming over concrete waste. *Chemical Engineering Journal*, **2020**, 396, 125331	14.7	8
47	Phase Transformation of Adefovir Dipivoxil/Succinic Acid Cocrystals Regulated by Polymeric Additives. *Polymers*, **2014**, 6, 1-11	4.5	8

46	Valorization of Phytoremediation Byproduct via Synthesis of Biodiesel from Cockspur Grass (Echinochloa crus-galli) Seed. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 11588-11595	8.3	8
45	Offering a new option to valorize hen manure by CO2-assisted catalytic pyrolysis over biochar and metal catalysts. *Journal of CO2 Utilization*, **2020**, 42, 101344	7.6	8
44	Catalytic pyrolysis of pine bark over Ni/SiO2 in a CO2 atmosphere. *Energy*, **2021**, 220, 119827	7.9	8
43	Virtuous utilization of biochar and carbon dioxide in the thermochemical process of dairy cattle manure. *Chemical Engineering Journal*, **2021**, 416, 129110	14.7	8
42	Quantitative study on lipid productivity of Euglena gracilis and its biodiesel production according to the cultivation conditions. *Journal of Cleaner Production*, **2021**, 291, 125218	10.3	8
41	Study on carbon rearrangements of CO2 co-feeding pyrolysis of corn stover and oak wood. *Journal of CO2 Utilization*, **2020**, 42, 101320	7.6	7
40	Valorization of aflatoxin contaminated peanut into biodiesel through non-catalytic transesterification. *Journal of Hazardous Materials*, **2021**, 416, 125845	12.8	7
39	Biodiesel production from black soldier fly larvae derived from food waste by non-catalytic transesterification. *Energy*, **2022**, 238, 121700	7.9	7
38	Power generation using rice husk derived fuels from CO2-assisted catalytic pyrolysis over Co/Al2O3. *Energy*, **2020**, 206, 118143	7.9	6
37	Biodiesels from non-catalytic transesterification of plant oils and their performances as aviation fuels. *Energy Conversion and Management*, **2021**, 244, 114479	10.6	6
36	Effects of Polymers on the Cocrystallization of Adefovir Dipivoxil and Suberic Acid. *Porrime*, **2013**, 37, 663-668	1	5
35	Biodiesel synthesis from swine manure. *Bioresource Technology*, **2020**, 317, 124032	11	5
34	Mitigation of harmful chemical formation from pyrolysis of tobacco waste using CO. *Journal of Hazardous Materials*, **2021**, 401, 123416	12.8	5
33	Leveraging carbon dioxide to control the H2/CO ratio in catalytic pyrolysis of fishing net waste. *Renewable and Sustainable Energy Reviews*, **2021**, 138, 110559	16.2	5
32	Biodiesel production from the black soldier fly larvae grown on food waste and its fuel property characterization as a potential transportation fuel. *Environmental Engineering Research*, **2022**, 27, 200704-0	2.6	4
31	A new upgrading platform for livestock lignocellulosic waste into syngas using CO2-assisted thermo-chemical process. *Energy Conversion and Management*, **2021**, 236, 114084	10.6	4
30	Synergistic effects of CO on complete thermal degradation of plastic waste mixture through a catalytic pyrolysis platform: A case study of disposable diaper. *Journal of Hazardous Materials*, **2021**, 419, 126537	12.8	4
29	Synergistic use of carbon dioxide in catalytic pyrolysis of chlorella vulgaris over Ni and Co catalysts. *Energy*, **2020**, 211, 118710	7.9	3

28	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). *Acta Crystallographica Section E: Structure Reports Online*, **2012**, 68, o809-10		3
27	Use of CO2 and nylon as the raw materials for flammable gas production through a catalytic thermo-chemical process. *Green Chemistry*,	10	3
26	Synergistic benefits for hydrogen production through CO2-cofeeding catalytic pyrolysis of cellulosic biomass waste. *Cellulose*, **2021**, 28, 4781-4792	5.5	3
25	CO-assisted catalytic pyrolysis of cellulose acetate using Ni-based catalysts. *Environmental Pollution* , **2021**, 275, 116667	9.3	3
24	Strategic disposal of flood debris via CO-assisted catalytic pyrolysis. *Journal of Hazardous Materials*, **2021**, 412, 125242	12.8	3
23	Catalytic pyrolysis of plastics derived from end-of-life-vehicles (ELVs) under the CO2 environment. *International Journal of Energy Research*, **2021**, 45, 16781-16793	4.5	3
22	Direct conversion of yellow mealworm larvae into biodiesel via a non-catalytic transesterification platform. *Chemical Engineering Journal*, **2022**, 427, 131782	14.7	3
21	Ionicity Analysis of Silylamine-Type Reversible Ionic Liquids as a Model Switchable Electrolyte. *Journal of the Electrochemical Society*, **2015**, 162, H460-H465	3.9	2
20	Biofuel Production as an Example of Virtuous Valorization of Swine Manure. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 13761-13772	8.3	2
19	Valorization of a spent lithium-ion battery electrolyte through syngas formation using CO2-assisted catalytic thermolysis over a battery cathode material. *Journal of CO2 Utilization*, **2021**, 50, 101591	7.6	2
18	Functional use of CO to mitigate the formation of bisphenol A in catalytic pyrolysis of polycarbonate. *Journal of Hazardous Materials*, **2022**, 423, 126992	12.8	2
17	Disposal of plastic mulching film through CO-assisted catalytic pyrolysis as a strategic means for microplastic mitigation.. *Journal of Hazardous Materials*, **2022**, 430, 128454	12.8	1
16	Upgrading spent battery separator into syngas and hydrocarbons through CO2-Assisted thermochemical platform. *Energy*, **2021**, 122552	7.9	1
15	Simultaneous productions of biodiesel and biochar from krill. *Journal of Cleaner Production*, **2022**, 335, 130296	10.3	1
14	Direct conversion of Camellia japonica seed into biodiesel through non-catalytic transesterification. *Industrial Crops and Products*, **2021**, 174, 114194	5.9	1
13	Catalytic hydrodeoxygenation for upgrading of lignin-derived bio-oils **2021**, 129-145		1
12	Strategic way for valorization of manure into chemicals and fuels. *Journal of Cleaner Production*, **2021**, 322, 129109	10.3	1
11	Strategic management of harmful chemicals produced from pyrolysis of plastic cup waste using CO2 as a reaction medium. *Chemical Engineering Journal*, **2022**, 437, 135524	14.7	1

10	Control of the fate of toxic pollutants from catalytic pyrolysis of polyurethane by oxidation using CO2. *Chemical Engineering Journal*, **2022**, 442, 136358	14.7	1
9	Carbothermic reduction of spent Lithium-Ion batteries using CO2 as reaction medium. *Chemical Engineering Journal*, **2022**, 435, 135165	14.7	0
8	Valorization of carbon dioxide and waste (Derived from the site of Eutrophication) into syngas using a catalytic thermo-chemical platform. *Bioresource Technology*, **2021**, 341, 125858	11	0
7	Valorizing plastic toy wastes to flammable gases through CO-mediated pyrolysis with a Co-based catalyst.. *Journal of Hazardous Materials*, **2022**, 434, 128850	12.8	0
6	Sustainable valorization of styrofoam and CO into syngas.. *Science of the Total Environment*, **2022**, 155384	10.2	0
5	Pyrolysis of rice husk using CO2 for enhanced energy production and soil amendment. *Energy and Environment*,0958305X2210794	2.4	
4	Golden Pothos viability in engineered mixed bed growth media containing ionic liquids for plant-based building air filtration systems. *Rhizosphere*, **2020**, 15, 100209	3.5	
3	Exploiting starfish in pyrolysis for the enhanced generation of syngas and CO2-looping agent. *Journal of Cleaner Production*, **2020**, 276, 123228	10.3	
2	Structure-Property Relationships of Silylamine-Type Reversible Ionic Liquids for Use as a Switchable Electrolyte. *Journal of the Electrochemical Society*, **2021**, 168, 036516	3.9	
1	Production of flammable gases from cattle manure via pyrolysis using CO 2 as an oxidant. *International Journal of Energy Research*, **2022**, 46, 6806-6816	4.5	