

# Dengyu Chen

## 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.

45 papers	2,578 citations	26 h-index	47 g-index
47 ext. papers	3,366 ext. citations	7.5 avg, IF	5.66 L-index

#	Paper	IF	Citations
45	Comparative study of electric-heating torrefaction and solar-driven torrefaction of biomass: Characterization of property variation and energy usage with torrefaction severity. <i>Applications in Energy and Combustion Science</i> , <b>2022</b> , 9, 100051	0.8	1
44	Co-pyrolysis of light bio-oil leached bamboo and heavy bio-oil: Effects of mass ratio, pyrolysis temperature, and residence time on the biochar. <i>Chemical Engineering Journal</i> , <b>2022</b> , 437, 135253	14.7	2
43	Life cycle assessment of torrefied cornstalk pellets combustion heating system. <i>Fuel</i> , <b>2022</b> , 320, 123968	7.1	1
42	Solar pyrolysis of cotton stalks: Combined effects of torrefaction pretreatment and HZSM-5 zeolite on the bio-fuels upgradation. <i>Energy Conversion and Management</i> , <b>2022</b> , 261, 115640	10.6	0
41	Insight into biomass pyrolysis mechanism based on cellulose, hemicellulose, and lignin: Evolution of volatiles and kinetics, elucidation of reaction pathways, and characterization of gas, biochar and bio-oil. <i>Combustion and Flame</i> , <b>2022</b> , 242, 112142	5.3	1
40	Upgrading biochar by co-pyrolysis of heavy bio-oil and apricot shell using response surface methodology. <i>Fuel</i> , <b>2021</b> , 122447	7.1	1
39	Technical and Benefit Evaluation of Fruit-Wood Waste Gasification Heating Coproduction of an Activated Carbon System. <i>ACS Omega</i> , <b>2021</b> , 6, 633-641	3.9	1
38	Investigation of the relevance between thermal degradation behavior and physicochemical property of cellulose under different torrefaction severities. <i>Biomass and Bioenergy</i> , <b>2021</b> , 148, 106061	5.3	3
37	Bio-BTX production from the shape selective catalytic fast pyrolysis of lignin using different zeolite catalysts: Relevance between the chemical structure and the yield of bio-BTX. <i>Fuel Processing Technology</i> , <b>2021</b> , 216, 106792	7.2	13
36	Insight into a new phenolic-leaching pretreatment on bamboo pyrolysis: Release characteristics of pyrolytic volatiles, upgradation of three phase products, migration of elements, and energy yield. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 136, 110444	16.2	34
35	Effect of the combined pretreatment of leaching and torrefaction on the production of bio-aromatics from rice straw via the shape selective catalytic fast pyrolysis. <i>Energy Reports</i> , <b>2021</b> , 7, 732-739	4.6	16
34	Comparative Study on the Pyrolysis Behaviors of Pine Cone and Pretreated Pine Cone by Using TGA-FTIR and Pyrolysis-GC/MS. <i>ACS Omega</i> , <b>2021</b> , 6, 3490-3498	3.9	6
33	Upgrading rice husk via oxidative torrefaction: Characterization of solid, liquid, gaseous products and a comparison with non-oxidative torrefaction. <i>Fuel</i> , <b>2020</b> , 275, 117936	7.1	47
32	Upgrading of biomass pellets by torrefaction and its influence on the hydrophobicity, mechanical property, and fuel quality. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	14
31	Enhancement of the production of bio-aromatics from renewable lignin by combined approach of torrefaction deoxygenation pretreatment and shape selective catalytic fast pyrolysis using metal modified zeolites. <i>Biorenewable Technology</i> , <b>2020</b> , 301, 122754	11	30
30	Leaching of alkali and alkaline earth metallic species (AAEMs) with phenolic substances in bio-oil and its effect on pyrolysis characteristics of moso bamboo. <i>Fuel Processing Technology</i> , <b>2020</b> , 200, 106332	7.2	16
29	Features and Commercial Performance of a System of Biomass Gasification for Simultaneous Clean Heating and Activated Carbon Production. <i>ACS Omega</i> , <b>2020</b> , 5, 26110-26115	3.9	3

28	Influence of biochar with loaded metal salts on the cracking of pyrolysis volatiles from corn straw. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2020</b> , 1-10	1.6	4
27	Effect of torrefaction on the pyrolysis behavior, kinetics, and phenolic products of lignin. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	3
26	Extraction of SiO <sub>2</sub> from gasified rice husk carbon simultaneously rice husk activated carbon production: Restudy on product properties, activation mechanism, and evolution law of pore structure. <i>Energy Reports</i> , <b>2020</b> , 6, 3094-3103	4.6	5
25	Effect of Torrefaction on Properties of Pellets Produced from Woody Biomass. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 15343-15354	4.1	14
24	Comparative study of the fuel quality and torrefaction performance of biomass and its molded pellets: effects of temperature and residence time. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2020</b> , 1-10	1.6	3
23	Are the typical organic components in biomass pyrolyzed bio-oil available for leaching of alkali and alkaline earth metallic species (AAEMs) from biomass?. <i>Fuel</i> , <b>2020</b> , 260, 116347	7.1	34
22	Upgrading of bio-oil via solar pyrolysis of the biomass pretreated with aqueous phase bio-oil washing, solar drying, and solar torrefaction. <i>Bioresource Technology</i> , <b>2020</b> , 305, 123130	11	27
21	Investigation of the relevance between biomass pyrolysis polygeneration and washing pretreatment under different severities: Water, dilute acid solution and aqueous phase bio-oil. <i>Bioresource Technology</i> , <b>2019</b> , 278, 26-33	11	79
20	New sight on the lignin torrefaction pretreatment: Relevance between the evolution of chemical structure and the properties of torrefied gaseous, liquid, and solid products. <i>Bioresource Technology</i> , <b>2019</b> , 288, 121528	11	39
19	Comparative study on the pyrolysis behaviors of rice straw under different washing pretreatments of water, acid solution, and aqueous phase bio-oil by using TG-FTIR and Py-GC/MS. <i>Fuel</i> , <b>2019</b> , 252, 1-9	7.1	80
18	Preparation and thermostability of cellulose nanocrystals and nanofibrils from two sources of biomass: rice straw and poplar wood. <i>Cellulose</i> , <b>2019</b> , 26, 8625-8643	5.5	35
17	In-depth study of rice husk torrefaction: Characterization of solid, liquid and gaseous products, oxygen migration and energy yield. <i>Bioresource Technology</i> , <b>2018</b> , 253, 148-153	11	118
16	Relationship of thermal degradation behavior and chemical structure of lignin isolated from palm kernel shell under different process severities. <i>Fuel Processing Technology</i> , <b>2018</b> , 181, 142-156	7.2	57
15	Restudy on torrefaction of corn stalk from the point of view of deoxygenation and decarbonization. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2018</b> , 135, 85-93	6	41
14	Investigation of biomass torrefaction based on three major components: Hemicellulose, cellulose, and lignin. <i>Energy Conversion and Management</i> , <b>2018</b> , 169, 228-237	10.6	229
13	An approach for upgrading biomass and pyrolysis product quality using a combination of aqueous phase bio-oil washing and torrefaction pretreatment. <i>Bioresource Technology</i> , <b>2017</b> , 233, 150-158	11	112
12	Combined pretreatment with torrefaction and washing using torrefaction liquid products to yield upgraded biomass and pyrolysis products. <i>Bioresource Technology</i> , <b>2017</b> , 228, 62-68	11	153
11	Pyrolysis polygeneration of poplar wood: Effect of heating rate and pyrolysis temperature. <i>Bioresource Technology</i> , <b>2016</b> , 218, 780-8	11	106

10	Pyrolysis polygeneration of pine nut shell: Quality of pyrolysis products and study on the preparation of activated carbon from biochar. <i>Bioresource Technology</i> , <b>2016</b> , 216, 629-36	11	93
9	Effects of Water Washing and Torrefaction Pretreatments on Corn Stalk Pyrolysis: Combined Study Using TG-FTIR and a Fixed Bed Reactor. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 10627-10634	4.1	38
8	Effect of torrefaction pretreatment and catalytic pyrolysis on the pyrolysis poly-generation of pine wood. <i>Bioresource Technology</i> , <b>2016</b> , 214, 615-622	11	73
7	Effect of pyrolysis temperature on the chemical oxidation stability of bamboo biochar. <i>Bioresource Technology</i> , <b>2016</b> , 218, 1303-6	11	99
6	Torrefaction of biomass stalk and its effect on the yield and quality of pyrolysis products. <i>Fuel</i> , <b>2015</b> , 159, 27-32	7.1	179
5	Determination of pyrolysis characteristics and kinetics of palm kernel shell using TGA/FTIR and model-free integral methods. <i>Energy Conversion and Management</i> , <b>2015</b> , 89, 251-259	10.6	365
4	Effects of heating rate on slow pyrolysis behavior, kinetic parameters and products properties of moso bamboo. <i>Bioresource Technology</i> , <b>2014</b> , 169, 313-319	11	151
3	Evaluation methods and research progresses in bio-oil storage stability. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 40, 69-79	16.2	123
2	Effects of Torrefaction on the Pyrolysis Behavior and Bio-Oil Properties of Rice Husk by Using TG-FTIR and Py-GC/MS. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 5857-5863	4.1	90
1	Upgrading of Rice Husk by Torrefaction and its Influence on the Fuel Properties. <i>BioResources</i> , <b>2014</b> , 9,	1.3	38