

Capucine Dupont

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,162
citations

218677

26
h-index

223800

46
g-index

50
all docs

50
docs citations

50
times ranked

2269
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass steam gasification kinetics: relative impact of char physical properties vs. inorganic composition. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 3475-3490.	4.6	6
2	Will mixing rule or chemical reactions dominate the ash behavior of biomass mixtures in combustion processes on laboratory and pilot scales?. <i>Fuel</i> , 2022, 308, 122050.	6.4	4
3	Torrefaction of cellulose, hemicelluloses and lignin extracted from woody and agricultural biomass in TGA-GC/MS: Linking production profiles of volatile species to biomass type and macromolecular composition. <i>Industrial Crops and Products</i> , 2022, 176, 114350.	5.2	26
4	Impact of the biomass precursor composition in the hard carbon properties and performance for application in a Na-ion battery. <i>Fuel Processing Technology</i> , 2022, 231, 107223.	7.2	13
5	Thermodynamic equilibrium approach to predict the inorganic interactions of ash from biomass and their mixtures: A critical assessment. <i>Fuel Processing Technology</i> , 2022, 235, 107369.	7.2	7
6	Impact of cellulose properties on its behavior in torrefaction: commercial microcrystalline cellulose versus cotton linters and celluloses extracted from woody and agricultural biomass. <i>Cellulose</i> , 2021, 28, 4761-4779.	4.9	6
7	Beneficial role of biochar addition on the anaerobic digestion of food waste: A systematic and critical review of the operational parameters and mechanisms. <i>Journal of Environmental Management</i> , 2021, 290, 112537.	7.8	47
8	Evaluating river driftwood as a feedstock for biochar production. <i>Waste Management</i> , 2021, 134, 197-205.	7.4	4
9	Effect of process parameters and biomass composition on flat-die pellet production from underexploited forest and agricultural biomass. <i>Fuel</i> , 2021, 302, 121076.	6.4	13
10	Pelleting torrefied biomass at pilot-scale " Quality and implications for co-firing. <i>Renewable Energy</i> , 2021, 178, 766-774.	8.9	10
11	River driftwood pretreated via hydrothermal carbonization as a sustainable source of hard carbon for Na-ion battery anodes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106604.	6.7	15
12	Unraveling the Properties of Biomass-Derived Hard Carbons upon Thermal Treatment for a Practical Application in Na-Ion Batteries. <i>Energies</i> , 2020, 13, 3513.	3.1	30
13	Understanding the torrefaction of woody and agricultural biomasses through their extracted macromolecular components. Part 1: Experimental thermogravimetric solid mass loss. <i>Energy</i> , 2020, 205, 118067.	8.8	10
14	Towards understanding the role of K during biomass steam gasification. <i>Fuel</i> , 2020, 282, 118806.	6.4	32
15	Understanding the torrefaction of woody and agricultural biomasses through their extracted macromolecular components. Part 2: Torrefaction model. <i>Energy</i> , 2020, 210, 118451.	8.8	5
16	Assessing the impact of woody and agricultural biomass variability on its behaviour in torrefaction through Principal Component Analysis. <i>Biomass and Bioenergy</i> , 2020, 134, 105474.	5.7	14
17	Condensable and Liquid Compounds from Biomass and Waste Thermal Degradation. , 2020, , 1173-1210.		0
18	Wide-angle X-ray scattering combined with pair distribution function analysis of pyrolyzed wood. <i>Journal of Applied Crystallography</i> , 2019, 52, 60-71.	4.5	8

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19	Fluorination/Torrefaction Combination to Further Improve the Hydrophobicity of Wood. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900041.	2.2	9
20	Physicochemical Approach To Blend Biomass. <i>Energy & Fuels</i> , 2019, 33, 5820-5828.	5.1	11
21	Possibilities to improve soil aggregate stability using biochars derived from various biomasses through slow pyrolysis, hydrothermal carbonization, or torrefaction. <i>Geoderma</i> , 2019, 344, 40-49.	5.1	57
22	Assessing the suitability of recovering shrub biowaste involved in wildland fires in the South of Europe through torrefaction mobile units. <i>Journal of Environmental Management</i> , 2019, 236, 551-560.	7.8	10
23	Performance of a compost and biochar packed biofilter for gas-phase hydrogen sulfide removal. <i>Bioresource Technology</i> , 2019, 273, 581-591.	9.6	52
24	The Influence of Char Preparation and Biomass Type on Char Steam Gasification Kinetics. <i>Energies</i> , 2018, 11, 2126.	3.1	10
25	Impact of biomass diversity on torrefaction: Study of solid conversion and volatile species formation through an innovative TGA-GC/MS apparatus. <i>Biomass and Bioenergy</i> , 2018, 119, 43-53.	5.7	36
26	Biochars from various biomass types as precursors for hard carbon anodes in sodium-ion batteries. <i>Biomass and Bioenergy</i> , 2018, 117, 32-37.	5.7	64
27	An extensive characterization of various treated waste wood for assessment of suitability with combustion process. <i>Fuel</i> , 2017, 202, 118-128.	6.4	29
28	Utilization of Torrefied Coffee Grounds as Reinforcing Agent To Produce High-Quality Biodegradable PBAT Composites for Food Packaging Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1906-1916.	6.7	132
29	How inorganic elements of biomass influence char steam gasification kinetics. <i>Energy</i> , 2016, 109, 430-435.	8.8	103
30	CO ₂ gasification of woody biomass chars: The influence of K and Si on char reactivity. <i>Comptes Rendus Chimie</i> , 2016, 19, 457-465.	0.5	81
31	Study of solid chemical evolution in torrefaction of different biomasses through solid-state ¹³ C cross-polarization/magic angle spinning NMR (nuclear magnetic resonance) and TGA (thermogravimetric analysis). <i>Energy</i> , 2016, 97, 381-390.	8.8	44
32	Thermodynamic Study of the Alkali Release Behavior during Steam Gasification of Several Biomasses. <i>Energy & Fuels</i> , 2015, 29, 7242-7253.	5.1	13
33	Thermogravimetric study on the influence of structural, textural and chemical properties of biomass chars on CO ₂ gasification reactivity. <i>Energy</i> , 2015, 88, 703-710.	8.8	119
34	Characterisation of the Most Representative Agricultural and Forestry Biomasses in France for Gasification. <i>Waste and Biomass Valorization</i> , 2015, 6, 515-526.	3.4	30
35	Heat capacity measurements of various biomass types and pyrolysis residues. <i>Fuel</i> , 2014, 115, 644-651.	6.4	151
36	Characterization of char and soot from millimetric wood particles pyrolysis in a drop tube reactor between 800°C and 1400°C. <i>Fuel</i> , 2014, 121, 216-224.	6.4	36

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37	Comparison of steam gasification reactivity of algal and lignocellulosic biomass: Influence of inorganic elements. <i>Bioresource Technology</i> , 2014, 164, 347-353.	9.6	85
38	Torrefaction modelling for lignocellulosic biomass conversion processes. <i>Energy</i> , 2014, 70, 58-67.	8.8	60
39	Volatile species release during torrefaction of wood and its macromolecular constituents: Part 1 "Experimental study. <i>Energy</i> , 2014, 72, 180-187.	8.8	70
40	Volatile species release during torrefaction of biomass and its macromolecular constituents: Part 2 "Modeling study. <i>Energy</i> , 2014, 72, 188-194.	8.8	43
41	Experimental study on fast pyrolysis of free-falling millimetric biomass particles between 800 Å°C and 1000 Å°C. <i>Fuel</i> , 2013, 106, 61-66.	6.4	30
42	Short rotation forestry feedstock: Influence of particle size segregation on biomass properties. <i>Fuel</i> , 2013, 111, 820-828.	6.4	30
43	Effect of particle size and temperature on woody biomass fast pyrolysis at high temperature (1000Å°C-1400Å°C). <i>Fuel</i> , 2012, 97, 202-210.	6.4	110
44	Kinetic modelling of steam gasification of various woody biomass chars: Influence of inorganic elements. <i>Bioresource Technology</i> , 2011, 102, 9743-9748.	9.6	162
45	Influence of Particle Size, Reactor Temperature and Gas Phase Reactions on Fast Pyrolysis of Beech Wood. <i>International Journal of Chemical Reactor Engineering</i> , 2010, 8, .	1.1	7
46	Bioenergy II: Suitability of Wood Chips and Various Biomass Types for Use in Plant of BtL Production by Gasification. <i>International Journal of Chemical Reactor Engineering</i> , 2010, 8, .	1.1	8
47	Biomass pyrolysis: Kinetic modelling and experimental validation under high temperature and flash heating rate conditions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 85, 260-267.	5.5	90
48	Biomass pyrolysis experiments in an analytical entrained flow reactor between 1073K and 1273K. <i>Fuel</i> , 2008, 87, 1155-1164.	6.4	91
49	Study about the kinetic processes of biomass steam gasification. <i>Fuel</i> , 2007, 86, 32-40.	6.4	139