Dominik WÃ¼st

List of Publications by Year
in descending order

20 papers	774 citations	567281 15 h-index	752698 20 g-index
21 all docs	21 docs citations	21 times ranked	1076 citing authors

#	Article	IF	Citations
1	Inherent organic compounds in biocharâ€“Their content, composition and potential toxic effects. Journal of Environmental Management, 2015, 156, 150-157.	7.8	129
2	Fate of Nitrogen during Hydrothermal Carbonization. Energy & Fuels, 2016, 30, 8037-8042.	5.1	101
3	One stage olive mill waste streams valorisation via hydrothermal carbonisation. Waste Management, 2018, 80, 224-234.	7.4	87
4	Hydrothermal carbonization coupled with anaerobic digestion for the valorization of the organic fraction of municipal solid waste. Bioresource Technology, 2020, 314, 123734.	9.6	65
5	Short-term response of soil microorganisms to biochar addition in a temperate agroecosystem under soil warming. Agriculture, Ecosystems and Environment, 2016, 233, 308-317.	5.3	60
6	Valorization of maize silage digestate from two-stage anaerobic digestion by hydrothermal carbonization. Energy Conversion and Management, 2020, 222, 113218.	9.2	39
7	Understanding the influence of biomass particle size and reaction medium on the formation pathways of hydrochar. Biomass Conversion and Biorefinery, 2020, 10, 1357-1380.	4.6	38
8	Hydrothermal Carbonization: 2. Kinetics of Draff Conversion. Chemie-Ingenieur-Technik, 2012, 84, 509-512.	0.8	34
9	Fate of Nitrogen, Phosphate, and Potassium during Hydrothermal Carbonization and the Potential for Nutrient Recovery. ACS Sustainable Chemistry and Engineering, 2020, 8, 15507-15516.	6.7	30
10	Effect of residence time during hydrothermal carbonization of biogas digestate on the combustion characteristics of hydrochar and the biogas production of process water. Bioresource Technology, 2021, 333, 125110.	9.6	30
11	Steam Explosion Conditions Highly Influence the Biogas Yield of Rice Straw. Molecules, 2019, 24, 3492.	3.8	28
12	Toward an Intensified Process of Biomass-Derived Monomers: The Influence of 5-(Hydroxymethyl)furfural Byproducts on the Gold-Catalyzed Synthesis of 2,5-Furandicarboxylic Acid. ACS Sustainable Chemistry and Engineering, 2020, 8, 11512-11521.	6.7	25
13	Hydrothermal carbonization of dry toilet residues as an added-value strategy â€“ Investigation of process parameters. Journal of Environmental Management, 2019, 234, 537-545.	7.8	23
14	Prediction of gaseous, liquid and solid mass yields from hydrothermal carbonization of biogas digestate by severity parameter. Biomass Conversion and Biorefinery, 2016, 6, 151-160.	4.6	20
15	Hydrothermal carbonization of wheat strawâ€”prediction of product mass yields and degree of carbonization by severity parameter. Biomass Conversion and Biorefinery, 2016, 6, 347-354.	4.6	18
16	Nitrogenâ€Containing Hydrochar: The Influence of Nitrogenâ€Containing Compounds on the Hydrochar Formation. ChemistryOpen, 2020, 9, 864-873.	1.9	15
17	An approach to unify the appraisal framework for biomass conversion systems. Biomass and Bioenergy, 2015, 83, 354-365.	5.7	14
18	Challenges of Green Production of 2,5â€Furandicarboxylic Acid from Bioâ€Derived 5â€Hydroxymethylfurfural: Overcoming Deactivation by Concomitant Amino Acids. ChemSusChem, 2022, 15, .	6.8	8

#	Article	IF	Citations
19	Process Water Recirculation During Hydrothermal Carbonization as a Promising Process Step Towards the Production of Nitrogen-Doped Carbonaceous Materials. Waste and Biomass Valorization, 2022, 13, 2349-2373.	3.4	6
20	Anaerobic Degradation of Individual Components from 5-Hydroxymethylfurfural Process-Wastewater in Continuously Operated Fixed Bed Reactors. Processes, 2021, 9, 677.	2.8	4