

# Axel Funke

## List of Publications by Citations

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29  
papers

2,978  
citations

16  
h-index

30  
g-index

30  
ext. papers

3,412  
ext. citations

5.7  
avg. IF

5.53  
L-index

#	Paper	IF	Citations
29	Hydrothermal carbonization of biomass: A summary and discussion of chemical mechanisms for process engineering. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2010</b> , 4, 160-177	5.3	1055
28	Hydrothermal carbonization of biomass residuals: a comparative review of the chemistry, processes and applications of wet and dry pyrolysis. <i>Biofuels</i> , <b>2011</b> , 2, 71-106	2	1013
27	Hydrothermal conversion of biomass to fuels and energetic materials. <i>Current Opinion in Chemical Biology</i> , <b>2013</b> , 17, 515-21	9.7	325
26	Heat of reaction measurements for hydrothermal carbonization of biomass. <i>Bioresource Technology</i> , <b>2011</b> , 102, 7595-8	11	79
25	Experimental comparison of hydrothermal and vapothermal carbonization. <i>Fuel Processing Technology</i> , <b>2013</b> , 115, 261-269	7.2	67
24	Cascaded production of biogas and hydrochar from wheat straw: Energetic potential and recovery of carbon and plant nutrients. <i>Biomass and Bioenergy</i> , <b>2013</b> , 58, 229-237	5.3	59
23	Towards Biochar and Hydrochar Engineering Influence of Process Conditions on Surface Physical and Chemical Properties, Thermal Stability, Nutrient Availability, Toxicity and Wettability. <i>Energies</i> , <b>2018</b> , 11, 496	3.1	52
22	Biomass pyrolysis TGA assessment with an international round robin. <i>Fuel</i> , <b>2020</b> , 276, 118002	7.1	34
21	Experimental comparison of two bench scale units for fast and intermediate pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2017</b> , 124, 504-514	6	32
20	Fast pyrolysis char - Assessment of alternative uses within the bioliq <sup>2</sup> concept. <i>Bioresource Technology</i> , <b>2016</b> , 200, 905-13	11	29
19	A vision on biomass-to-liquids (BTL) thermochemical routes in integrated sugarcane biorefineries for biojet fuel production. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 119, 109607	16.2	28
18	From agriculture residue to upgraded product: The thermochemical conversion of sugarcane bagasse for fuel and chemical products. <i>Fuel Processing Technology</i> , <b>2020</b> , 197, 106199	7.2	26
17	Effects of selected process conditions on the stability of hydrochar in low-carbon sandy soil. <i>Geoderma</i> , <b>2016</b> , 267, 137-145	6.7	23
16	Fate of Plant Available Nutrients during Hydrothermal Carbonization of Digestate. <i>Chemie-Ingenieur-Technik</i> , <b>2015</b> , 87, 1713-1719	0.8	22
15	Dimensional Analysis of Auger-Type Fast Pyrolysis Reactors. <i>Energy Technology</i> , <b>2017</b> , 5, 119-129	3.5	20
14	Improvement of proximate data and calorific value assessment of bamboo through near infrared wood chips acquisition. <i>Renewable Energy</i> , <b>2020</b> , 147, 1921-1931	8.1	19
13	Hydrothermal Carbonization of Biomass <b>2015</b> , 325-352		15

12	Application of fast pyrolysis char in an electric arc furnace. <i>Fuel Processing Technology</i> , <b>2018</b> , 174, 61-68	7.2	14
11	Moisture content as a design and operational parameter for fast pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2019</b> , 139, 73-86	6	13
10	Modelling and improvement of heat transfer coefficient in auger type reactors for fast pyrolysis application. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2018</b> , 130, 67-75	3.7	12
9	Activity of water in pyrolysis oil Experiments and modelling. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2018</b> , 135, 260-270	6	10
8	Fate of Nitrogen, Phosphate, and Potassium during Hydrothermal Carbonization and the Potential for Nutrient Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 15507-15516	8.3	9
7	Fast Pyrolysis of Biomass Residues in a Twin-screw Mixing Reactor. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	8
6	Propagation of uncertainties and systematic errors in the measurements of long-lasting heat flows using differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2012</b> , 108, 1317-1324	4.1	7
5	Results of the International Energy Agency Bioenergy Round Robin on the Analysis of Heteroatoms in Biomass Liquefaction Oils. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 11123-11133	4.1	3
4	Pyrolysis kinetics and estimation of chemical composition of <i>Quercus cerris</i> cork. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	2
3	Continuous fast pyrolysis synthesis of TiO <sub>2</sub> /C nanohybrid lithium-ion battery anode. <i>Nano Select</i> , <b>2021</b> , 2, 1770-1778	3.1	1
2	Fast Pyrolysis of Wheat Straw Improvements of Operational Stability in 10 Years of Bioliq Pilot Plant Operation. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 11333-11345	4.1	1
1	Precision test for the spectral characteristic of FT-NIR for the measurement of water content of wheat straw. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 301, 012034	0.3	