

Daniel L Carpenter

List of Publications by Year in descending order

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28
papers

1,649
citations

471509

17
h-index

552781

26
g-index

29
all docs

29
docs citations

29
times ranked

2239
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass feedstocks for renewable fuel production: a review of the impacts of feedstock and pretreatment on the yield and product distribution of fast pyrolysis bio-oils and vapors. <i>Green Chemistry</i> , 2014, 16, 384-406.	9.0	510
2	Review of Mid- to High-Temperature Sulfur Sorbents for Desulfurization of Biomass- and Coal-derived Syngas. <i>Energy & Fuels</i> , 2009, 23, 5291-5307.	5.1	250
3	Pilot-Scale Gasification of Corn Stover, Switchgrass, Wheat Straw, and Wood: 1. Parametric Study and Comparison with Literature. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 1859-1871.	3.7	136
4	Evaluating the effect of potassium on cellulose pyrolysis reaction kinetics. <i>Biomass and Bioenergy</i> , 2015, 74, 15-25.	5.7	99
5	Evaluation of Catalyst Deactivation during Catalytic Steam Reforming of Biomass-Derived Syngas. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 7945-7956.	3.7	91
6	Field-to-Fuel Performance Testing of Lignocellulosic Feedstocks: An Integrated Study of the Fast Pyrolysis-Hydrotreating Pathway. <i>Energy & Fuels</i> , 2015, 29, 3188-3197.	5.1	73
7	Earthworm induced mineral weathering: Preliminary results. <i>European Journal of Soil Biology</i> , 2007, 43, S176-S183.	3.2	65
8	Effects of thermal pretreatment and catalyst on biomass gasification efficiency and syngas composition. <i>Green Chemistry</i> , 2016, 18, 6291-6304.	9.0	59
9	Quantitative Measurement of Biomass Gasifier Tars Using a Molecular-Beam Mass Spectrometer: Comparison with Traditional Impinger Sampling. <i>Energy & Fuels</i> , 2007, 21, 3036-3043.	5.1	57
10	Steam-air blown bubbling fluidized bed biomass gasification (BFBBG): Multi-scale models and experimental validation. <i>AIChE Journal</i> , 2017, 63, 1543-1565.	3.6	40
11	Integrated Particle- and Reactor-Scale Simulation of Pine Pyrolysis in a Fluidized Bed. <i>Energy & Fuels</i> , 2018, 32, 10683-10694.	5.1	39
12	Pilot-Scale Gasification of Corn Stover, Switchgrass, Wheat Straw, and Wood: 2. Identification of Global Chemistry Using Multivariate Curve Resolution Techniques. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 10691-10701.	3.7	30
13	Demonstration and Characterization of Ni/Mg/K/AD90 Used for Pilot-Scale Conditioning of Biomass-Derived Syngas. <i>Catalysis Letters</i> , 2010, 134, 242-249.	2.6	30
14	Catalytic hydroprocessing of fast pyrolysis oils: Impact of biomass feedstock on process efficiency. <i>Biomass and Bioenergy</i> , 2017, 96, 142-151.	5.7	29
15	Technoeconomic Analysis for the Production of Mixed Alcohols via Indirect Gasification of Biomass Based on Demonstration Experiments. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 12149-12159.	3.7	25
16	High-Octane Gasoline from Biomass: Experimental, Economic, and Environmental Assessment. <i>Applied Energy</i> , 2019, 241, 25-33.	10.1	25
17	Multiscale CFD simulation of biomass fast pyrolysis with a machine learning derived intra-particle model and detailed pyrolysis kinetics. <i>Chemical Engineering Journal</i> , 2022, 431, 133853.	12.7	25
18	High-resolution mass spectrometric analysis of biomass pyrolysis vapors. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 124, 327-334.	5.5	20

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19	Pilot Plant Reliability Metrics for Grinding and Fast Pyrolysis of Woody Residues. ACS Sustainable Chemistry and Engineering, 2020, 8, 2793-2805.	6.7	10
20	Fast Pyrolysis of <i>Opuntia ficus-indica</i> (Prickly Pear) and <i>Grindelia squarrosa</i> (Gumweed). Energy & Fuels, 2018, 32, 3510-3518.	5.1	8
21	Effects of Torrefaction Temperature on Pyrolysis Vapor Products of Woody and Herbaceous Feedstocks. Energy & Fuels, 2016, 30, 5677-5683.	5.1	7
22	Molecular weight distribution of raw and catalytic fast pyrolysis oils: comparison of analytical methodologies. RSC Advances, 2020, 10, 3789-3795.	3.6	7
23	Biology as an Agent of Chemical and Mineralogical Change in Soil. Procedia Earth and Planetary Science, 2014, 10, 114-117.	0.6	6
24	Advanced spectrometric methods for characterizing bio-oils to enable refineries to reduce fuel carbon intensity during co-processing. Applied Spectroscopy Reviews, 2022, 57, 77-87.	6.7	3
25	Predicting Catalytic Pyrolysis Aromatic Selectivity from Pyrolysis Vapor Composition Using Mass Spectra Coupled with Statistical Analysis. ACS Sustainable Chemistry and Engineering, 2022, 10, 234-244.	6.7	3
26	A simplified integrated framework for predicting the economic impacts of feedstock variations in a catalytic fast pyrolysis conversion process. Biofuels, Bioproducts and Biorefining, 0, , .	3.7	1
27	Insights into the Mechanisms of Screw Feeder Plugging by Heated Pine Forestry Residues Using In-situ and Correlative Microscopy. Microscopy and Microanalysis, 2020, 26, 2778-2780.	0.4	0
28	Multiscale Catalytic Fast Pyrolysis of Grindelia Reveals Opportunities for Generating Low Oxygen Content Bio-Oils from Drought Tolerant Biomass. Energy & Fuels, 0, , .	5.1	0