

Mark M Wright

List of Publications by Year in descending order

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48
papers

3,089
citations

185998

28
h-index

197535

49
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53
all docs

53
docs citations

53
times ranked

3429
citing authors

#	ARTICLE	IF	CITATIONS
1	The US bioeconomy at the intersection of technology, policy, and education. <i>Biofuels, Bioproducts and Biorefining</i> , 2022, 16, 9-26.	1.9	13
2	Machine Learning Reduced Order Model for Cost and Emission Assessment of a Pyrolysis System. <i>Energy & Fuels</i> , 2021, 35, 9950-9960.	2.5	12
3	A review of biogas and an assessment of its economic impact and future role as a renewable energy source. <i>Reviews in Chemical Engineering</i> , 2020, 36, 401-421.	2.3	32
4	Negative Emission Energy Production Technologies: A Techno-economic and Life Cycle Analyses Review. <i>Energy Technology</i> , 2020, 8, 1900871.	1.8	20
5	Techno-economic and greenhouse gas emission analysis of dimethyl ether production via the bi-reforming pathway for transportation fuel. <i>Energy</i> , 2020, 211, 119031.	4.5	16
6	Application of Hydroprocessing, Fermentation, and Anaerobic Digestion in a Carbon-Negative Pyrolysis Refinery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16413-16421.	3.2	10
7	A lignin-first strategy to recover hydroxycinnamic acids and improve cellulosic ethanol production from corn stover. <i>Biomass and Bioenergy</i> , 2020, 138, 105579.	2.9	16
8	Evaluating lignin valorization via pyrolysis and vapor-phase hydrodeoxygenation for production of aromatics and alkenes. <i>Green Chemistry</i> , 2020, 22, 2513-2525.	4.6	25
9	A DEM modeling of biomass fast pyrolysis in a double auger reactor. <i>International Journal of Heat and Mass Transfer</i> , 2020, 150, 119308.	2.5	23
10	Regional techno-economic and life-cycle analysis of the pyrolysis-bioenergy-biochar platform for carbon-negative energy. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 1428-1438.	1.9	23
11	Techno-economic and life cycle analysis of a farm-scale anaerobic digestion plant in Iowa. <i>Waste Management</i> , 2019, 89, 154-164.	3.7	41
12	Production and purification of crystallized levoglucosan from pyrolysis of lignocellulosic biomass. <i>Green Chemistry</i> , 2019, 21, 5980-5989.	4.6	59
13	Recovery of resin acids from fast pyrolysis of pine. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 138, 132-136.	2.6	12
14	Effect of thermophysical properties of heat carriers on performance of a laboratory-scale auger pyrolyzer. <i>Fuel Processing Technology</i> , 2018, 176, 182-189.	3.7	7
15	More than ethanol: a techno-economic analysis of a corn stover ethanol biorefinery integrated with a hydrothermal liquefaction process to convert lignin into biochemicals. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 497-509.	1.9	51
16	Technoeconomic Analysis of a Hybrid Biomass Thermochemical and Electrochemical Conversion System. <i>Energy Technology</i> , 2018, 6, 178-187.	1.8	6
17	Comparative Techno-economic, Uncertainty and Life Cycle Analysis of Lignocellulosic Biomass Solvent Liquefaction and Sugar Fermentation to Ethanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16515-16524.	3.2	29
18	Lifecycle energy consumption and greenhouse gas emissions from corncob ethanol in China. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 1037-1046.	1.9	20

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19	Particle scale modeling of heat transfer in granular flows in a double screw reactor. Powder Technology, 2018, 335, 18-34.	2.1	36
20	Toward an Integrated Conversion of 5-Hydroxymethylfurfural and Ethylene for the Production of Renewable p-Xylene. Chem, 2018, 4, 2212-2227.	5.8	56
21	Commentary on "Current economic obstacles to biochar use in agriculture and climate change mitigation" regarding uncertainty, context-specificity and alternative value sources. Carbon Management, 2017, 8, 215-217.	1.2	7
22	The impacts of biomass properties on pyrolysis yields, economic and environmental performance of the pyrolysis-bioenergy-biochar platform to carbon negative energy. Bioresource Technology, 2017, 241, 959-968.	4.8	88
23	Numerical study of particle mixing in a lab-scale screw mixer using the discrete element method. Powder Technology, 2017, 308, 334-345.	2.1	46
24	Techno-Economic Analysis of the Stabilization of Bio-Oil Fractions for Insertion into Petroleum Refineries. ACS Sustainable Chemistry and Engineering, 2017, 5, 1528-1537.	3.2	45
25	Economics of biofuels and bioproducts from an integrated pyrolysis biorefinery. Biofuels, Bioproducts and Biorefining, 2016, 10, 790-803.	1.9	36
26	Understanding Uncertainties in the Economic Feasibility of Transportation Fuel Production using Biomass Gasification and Mixed Alcohol Synthesis. Energy Technology, 2016, 4, 441-448.	1.8	15
27	Hydrocarbon and Ammonia Production from Catalytic Pyrolysis of Sewage Sludge with Acid Pretreatment. ACS Sustainable Chemistry and Engineering, 2016, 4, 1819-1826.	3.2	44
28	Catalytic pyrolysis of amino acids: Comparison of aliphatic amino acid and cyclic amino acid. Energy Conversion and Management, 2016, 112, 220-225.	4.4	69
29	Comparative techno-economic analysis of advanced biofuels, biochemicals, and hydrocarbon chemicals via the fast pyrolysis platform. Biofuels, 2016, 7, 57-67.	1.4	57
30	Natural Gas and Cellulosic Biomass: A Clean Fuel Combination? Determining the Natural Gas Blending Wall in Biofuel Production. Environmental Science & Technology, 2015, 49, 8183-8192.	4.6	14
31	Ultra-Low Carbon Emissions from Coal-Fired Power Plants through Bio-Oil Co-Firing and Biochar Sequestration. Environmental Science & Technology, 2015, 49, 14688-14695.	4.6	33
32	Solar thermal catalytic reforming of natural gas: a review on chemistry, catalysis and system design. Catalysis Science and Technology, 2015, 5, 1991-2016.	2.1	78
33	Techno-economic and uncertainty analysis of in situ and ex situ fast pyrolysis for biofuel production. Bioresource Technology, 2015, 196, 49-56.	4.8	70
34	Catalytic fast pyrolysis of duckweed: Effects of pyrolysis parameters and optimization of aromatic production. Journal of Analytical and Applied Pyrolysis, 2015, 112, 29-36.	2.6	42
35	An optimization model for sequential fast pyrolysis facility location-allocation under renewable fuel standard. Energy, 2015, 93, 1165-1172.	4.5	4
36	Learning rates and their impacts on the optimal capacities and production costs of biorefineries. Biofuels, Bioproducts and Biorefining, 2015, 9, 82-94.	1.9	31

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37	Techno-economic analysis of transportation fuels from defatted microalgae via hydrothermal liquefaction and hydroprocessing. <i>Biomass and Bioenergy</i> , 2015, 72, 45-54.	2.9	136
38	Product Selection and Supply Chain Optimization for Fast Pyrolysis and Biorefinery System. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 19987-19999.	1.8	31
39	A Framework for Defining the Economic Feasibility of Cellulosic Biofuel Pathways. <i>Biofuels</i> , 2014, 5, 579-590.	1.4	9
40	Techno-economic impacts of shale gas on cellulosic biofuel pathways. <i>Fuel</i> , 2014, 117, 989-995.	3.4	32
41	A techno-economic analysis of microalgae remnant catalytic pyrolysis and upgrading to fuels. <i>Fuel</i> , 2014, 128, 104-112.	3.4	64
42	Continuous production of sugars from pyrolysis of acid-infused lignocellulosic biomass. <i>Green Chemistry</i> , 2014, 16, 4144-4155.	4.6	106
43	Investigating the techno-economic trade-offs of hydrogen source using a response surface model of drop-in biofuel production via bio-oil upgrading. <i>Biofuels, Bioproducts and Biorefining</i> , 2012, 6, 503-520.	1.9	28
44	Estimating profitability of two biochar production scenarios: slow pyrolysis vs fast pyrolysis. <i>Biofuels, Bioproducts and Biorefining</i> , 2011, 5, 54-68.	1.9	230
45	Techno-economic comparison of biomass-to-transportation fuels via pyrolysis, gasification, and biochemical pathways. <i>Fuel</i> , 2010, 89, S29-S35.	3.4	395
46	Techno-economic analysis of biomass fast pyrolysis to transportation fuels. <i>Fuel</i> , 2010, 89, S2-S10.	3.4	579
47	Distributed processing of biomass to bio-oil for subsequent production of Fischer-Tropsch liquids. <i>Biofuels, Bioproducts and Biorefining</i> , 2008, 2, 229-238.	1.9	155
48	Comparative economics of biorefineries based on the biochemical and thermochemical platforms. <i>Biofuels, Bioproducts and Biorefining</i> , 2007, 1, 49-56.	1.9	129