Mark M Wright

List of Publications by Year
in descending order

48 papers	3,089 citations	186265 28 h-index	197818 49 g-index
53 all docs	53 docs citations	53 times ranked	3429 citing authors

#	Article	IF	Citations
1	Techno-economic analysis of biomass fast pyrolysis to transportation fuels. Fuel, 2010, 89, S2-S10.	6.4	579
2	Techno-economic comparison of biomass-to-transportation fuels via pyrolysis, gasification, and biochemical pathways. Fuel, 2010, 89, S29-S35.	6.4	395
3	Estimating profitability of two biochar production scenarios: slow pyrolysis <i>vs</i> fast pyrolysis. Biofuels, Bioproducts and Biorefining, 2011, 5, 54-68.	3.7	230
4	Distributed processing of biomass to bioâ€oil for subsequent production of Fischerâ€Tropsch liquids. Biofuels, Bioproducts and Biorefining, 2008, 2, 229-238.	3.7	155
5	Techno-economic analysis of transportation fuels from defatted microalgae via hydrothermal liquefaction and hydroprocessing. Biomass and Bioenergy, 2015, 72, 45-54.	5.7	136
6	Comparative economics of biorefineries based on the biochemical and thermochemical platforms. Biofuels, Bioproducts and Biorefining, 2007, 1, 49-56.	3.7	129
7	Continuous production of sugars from pyrolysis of acid-infused lignocellulosic biomass. Green Chemistry, 2014, 16, 4144-4155.	9.0	106
8	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.	9.6	88
9	Solar thermal catalytic reforming of natural gas: a review on chemistry, catalysis and system design. Catalysis Science and Technology, 2015, 5, 1991-2016.	4.1	78
10	Techno-economic and uncertainty analysis of in situ and ex situ fast pyrolysis for biofuel production. Bioresource Technology, 2015, 196, 49-56.	9.6	70
11	Catalytic pyrolysis of amino acids: Comparison of aliphatic amino acid and cyclic amino acid. Energy Conversion and Management, 2016, 112, 220-225.	9.2	69
12	A techno-economic analysis of microalgae remnant catalytic pyrolysis and upgrading to fuels. Fuel, 2014, 128, 104-112.	6.4	64
13	Production and purification of crystallized levoglucosan from pyrolysis of lignocellulosic biomass. Green Chemistry, 2019, 21, 5980-5989.	9.0	59
14	Comparative techno-economic analysis of advanced biofuels, biochemicals, and hydrocarbon chemicals via the fast pyrolysis platform. Biofuels, 2016, 7, 57-67.	2.4	57
15	Toward an Integrated Conversion of 5-Hydroxymethylfurfural and Ethylene for the Production of Renewable p-Xylene. CheM, 2018, 4, 2212-2227.	11.7	56
16	More than ethanol: a technoâ€economic analysis of a corn stoverâ€ethanol biorefinery integrated with a hydrothermal liquefaction process to convert lignin into biochemicals. Biofuels, Bioproducts and Biorefining, 2018, 12, 497-509.	3.7	51
17	Numerical study of particle mixing in a lab-scale screw mixer using the discrete element method. Powder Technology, 2017, 308, 334-345.	4.2	46
18	Techno-Economic Analysis of the Stabilization of Bio-Oil Fractions for Insertion into Petroleum Refineries. ACS Sustainable Chemistry and Engineering, 2017, 5, 1528-1537.	6.7	45

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19	Hydrocarbon and Ammonia Production from Catalytic Pyrolysis of Sewage Sludge with Acid Pretreatment. ACS Sustainable Chemistry and Engineering, 2016, 4, 1819-1826.	6.7	44
20	Catalytic fast pyrolysis of duckweed: Effects of pyrolysis parameters and optimization of aromatic production. Journal of Analytical and Applied Pyrolysis, 2015, 112, 29-36.	5.5	42
21	Techno-economic and life cycle analysis of a farm-scale anaerobic digestion plant in Iowa. Waste Management, 2019, 89, 154-164.	7.4	41
22	Economics of biofuels and bioproducts from an integrated pyrolysis biorefinery. Biofuels, Bioproducts and Biorefining, 2016, 10, 790-803.	3.7	36
23	Particle scale modeling of heat transfer in granular flows in a double screw reactor. Powder Technology, 2018, 335, 18-34.	4.2	36
24	Ultra-Low Carbon Emissions from Coal-Fired Power Plants through Bio-Oil Co-Firing and Biochar Sequestration. Environmental Science & Technology, 2015, 49, 14688-14695.	10.0	33
25	Techno-economic impacts of shale gas on cellulosic biofuel pathways. Fuel, 2014, 117, 989-995.	6.4	32
26	A review of biogas and an assessment of its economic impact and future role as a renewable energy source. Reviews in Chemical Engineering, 2020, 36, 401-421.	4.4	32
27	Product Selection and Supply Chain Optimization for Fast Pyrolysis and Biorefinery System. Industrial & Engineering Chemistry Research, 2014, 53, 19987-19999.	3.7	31
28	Learning rates and their impacts on the optimal capacities and production costs of biorefineries. Biofuels, Bioproducts and Biorefining, 2015, 9, 82-94.	3.7	31
29	Comparative Techno-economic, Uncertainty and Life Cycle Analysis of Lignocellulosic Biomass Solvent Liquefaction and Sugar Fermentation to Ethanol. ACS Sustainable Chemistry and Engineering, 2018, 6, 16515-16524.	6.7	29
30	Investigating the technoâ€economic tradeâ€offs of hydrogen source using a response surface model of dropâ€in biofuel production via bioâ€oil upgrading. Biofuels, Bioproducts and Biorefining, 2012, 6, 503-520.	3.7	28
31	Evaluating lignin valorization <i>via</i> pyrolysis and vapor-phase hydrodeoxygenation for production of aromatics and alkenes. Green Chemistry, 2020, 22, 2513-2525.	9.0	25
32	Regional technoâ€economic and lifeâ€cycle analysis of the pyrolysisâ€bioenergyâ€biochar platform for carbonâ€negative energy. Biofuels, Bioproducts and Biorefining, 2019, 13, 1428-1438.	3.7	23
33	A DEM modeling of biomass fast pyrolysis in a double auger reactor. International Journal of Heat and Mass Transfer, 2020, 150, 119308.	4.8	23
34	Lifecycle energy consumption and greenhouse gas emissions from corncob ethanol in China. Biofuels, Bioproducts and Biorefining, 2018, 12, 1037-1046.	3.7	20
35	Negative Emission Energy Production Technologies: A Technoâ€Economic and Life Cycle Analyses Review. Energy Technology, 2020, 8, 1900871.	3.8	20
36	Techno-economic and greenhouse gas emission analysis of dimethyl ether production via the bi-reforming pathway for transportation fuel. Energy, 2020, 211, 119031.	8.8	16

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37	A lignin-first strategy to recover hydroxycinnamic acids and improve cellulosic ethanol production from corn stover. Biomass and Bioenergy, 2020, 138, 105579.	5.7	16
38	Understanding Uncertainties in the Economic Feasibility of Transportation Fuel Production using Biomass Gasification and Mixed Alcohol Synthesis. Energy Technology, 2016, 4, 441-448.	3.8	15
39	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.	10.0	14
40	The US bioeconomy at the intersection of technology, policy, and education. Biofuels, Bioproducts and Biorefining, 2022, 16, 9-26.	3.7	13
41	Recovery of resin acids from fast pyrolysis of pine. Journal of Analytical and Applied Pyrolysis, 2019, 138, 132-136.	5.5	12
42	Machine Learning Reduced Order Model for Cost and Emission Assessment of a Pyrolysis System. Energy & Fuels, 2021, 35, 9950-9960.	5.1	12
43	Application of Hydroprocessing, Fermentation, and Anaerobic Digestion in a Carbon-Negative Pyrolysis Refinery. ACS Sustainable Chemistry and Engineering, 2020, 8, 16413-16421.	6.7	10
44	A Framework for Defining the Economic Feasibility of Cellulosic Biofuel Pathways. Biofuels, 2014, 5, 579-590.	2.4	9
45	Commentary on â€˜Current economic obstacles to biochar use in agriculture and climate change mitigationâ€™ regarding uncertainty, context-specificity and alternative value sources. Carbon Management, 2017, 8, 215-217.	2.4	7
46	Effect of thermophysical properties of heat carriers on performance of a laboratory-scale auger pyrolyzer. Fuel Processing Technology, 2018, 176, 182-189.	7.2	7
47	Technoeconomic Analysis of a Hybrid Biomass Thermochemical and Electrochemical Conversion System. Energy Technology, 2018, 6, 178-187.	3.8	6
48	An optimization model for sequential fast pyrolysis facility location-allocation under renewable fuel standard. Energy, 2015, 93, 1165-1172.	8.8	4