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Biomass to Liquid Transportation Fuels via Biological and Thermochemical Conversion: Process Synthesis and Global Optimization Strategies

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Industrial & Engineering Chemistry Research, 2016, 55, 3203-3225.

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#	Paper	IF	Citations
25	Preface for the Special Issue on Sustainable Chemical Manufacturing. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 3189-3191	3.9	4
24	Superstructure optimization of integrated fast pyrolysis-gasification for production of liquid fuels and propylene. <i>AIChE Journal</i> , 2016 , 62, 3155-3176	3.6	24
23	Biomass-Based Production of Benzene, Toluene, and Xylenes via Methanol: Process Synthesis and Deterministic Global Optimization. <i>Energy & Fuels</i> , 2016 , 30, 4970-4998	4.1	63
22	Multi-scale systems engineering for energy and the environment: Challenges and opportunities. <i>AIChE Journal</i> , 2016 , 62, 602-623	3.6	65
21	Air-steam and oxy-steam gasification of hydrolytic residues from biorefinery. <i>Fuel Processing Technology</i> , 2017 , 167, 451-461	7.2	30
20	Municipal solid waste to liquid transportation fuels, olefins, and aromatics: Process synthesis and deterministic global optimization. <i>Computers and Chemical Engineering</i> , 2017 , 102, 169-187	4	17
19	Nanocatalyst for Biofuel Production: A Review. <i>Biofuel and Biorefinery Technologies</i> , 2018 , 39-62	1	6
18	Enhancing natural gas-to-liquids (GTL) processes through chemical looping for syngas production: Process synthesis and global optimization. <i>Computers and Chemical Engineering</i> , 2018 , 113, 222-239	4	14
17	Correction to Biomass to Liquid Transportation Fuels via Biological and Thermochemical Conversion: Process Synthesis and Global Optimization Strategies <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 13591-13592	3.9	
16	Reprint of: Enhancing natural gas-to-liquids (GTL) processes through chemical looping for syngas production: Process synthesis and global optimization. <i>Computers and Chemical Engineering</i> , 2018 , 116, 521-538	4	2
15	Natural Gas to Liquid Transportation Fuels under Uncertainty Using Robust Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11112-11129	3.9	6
14	A Novel Group-based Correlation for the Ignition Delay Time of Paraffinic-type Fuels. <i>Combustion Science and Technology</i> , 2019 , 1-13	1.5	1
13	Structure, chemistry and physicochemistry of lignin for material functionalization. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	11
12	Energy systems engineering - a guided tour. <i>BMC Chemical Engineering</i> , 2019 , 1,	3.5	9
11	A solar fuel plant via supercritical water gasification integrated with Fischer-Tropsch synthesis: Steady-state modelling and techno-economic assessment. <i>Energy Conversion and Management</i> , 2019 , 184, 636-648	10.6	28
10	Mathematical model of Fischer-Tropsch synthesis using variable alpha-parameter to predict product distribution. <i>Fuel</i> , 2019 , 243, 603-609	7.1	10
9	Sustainable ammonia production through process synthesis and global optimization. <i>AIChE Journal</i> , 2019 , 65, e16498	3.6	54

8	Advances in nanotechnology for biofuel production. 2021 , 533-562		
7	Thermodynamic and environmental sustainability analysis of electricity production from an integrated cogeneration system based on residual biomass: A life cycle approach. <i>Applied Energy</i> , 2021 , 295, 117054	10.7	7
6	The role of nanoparticles on biofuel production and as an additive in ternary blend fuelled diesel engine: A review. <i>Energy Reports</i> , 2021 , 7, 3614-3627	4.6	13
5	A framework to predict the price of energy for the end-users with applications to monetary and energy policies. <i>Nature Communications</i> , 2021 , 12, 18	17.4	11
4	Biomass Valorization Under Methane Environment. 2022 , 163-193		
3	Thermochemical Conversion of Wastes. 2022 , 145-175		0
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