

Klaus Raffelt

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The BTL2 Process of Biomass Utilization Entrained-Flow Gasification of Pyrolyzed Biomass Slurries. <i>Applied Biochemistry and Biotechnology</i> , 2006, 129, 153-164.	2.9	72
2	From agriculture residue to upgraded product: The thermochemical conversion of sugarcane bagasse for fuel and chemical products. <i>Fuel Processing Technology</i> , 2020, 197, 106199.	7.2	48
3	Mild hydrotreatment of the light fraction of fast-pyrolysis oil produced from straw over nickel-based catalysts. <i>Biomass and Bioenergy</i> , 2015, 83, 525-538.	5.7	47
4	Influence of feedstock, catalyst, pyrolysis and hydrotreatment temperature on the composition of upgraded oils from intermediate pyrolysis. <i>Biomass and Bioenergy</i> , 2018, 116, 236-248.	5.7	39
5	Hydrotreatment of Fast Pyrolysis Bio-oil Fractions Over Nickel-Based Catalyst. <i>Topics in Catalysis</i> , 2018, 61, 1769-1782.	2.8	36
6	Effect of pyrolysis oil components on the activity and selectivity of nickel-based catalysts during hydrotreatment. <i>Applied Catalysis A: General</i> , 2017, 544, 161-172.	4.3	34
7	Reactivity of platform molecules in pyrolysis oil and in water during hydrotreatment over nickel and ruthenium catalysts. <i>Biomass and Bioenergy</i> , 2017, 106, 63-73.	5.7	26
8	Synthesis and Regeneration of Nickel-Based Catalysts for Hydrodeoxygenation of Beech Wood Fast Pyrolysis Bio-Oil. <i>Catalysts</i> , 2018, 8, 449.	3.5	22
9	Evaluation of High-Loaded Ni-Based Catalysts for Upgrading Fast Pyrolysis Bio-Oil. <i>Catalysts</i> , 2019, 9, 784.	3.5	10
10	Catalytic hydrodeoxygenation of pyrolysis oil over nickel-based catalysts under H ₂ /CO ₂ atmosphere. <i>Sustainable Chemical Processes</i> , 2016, 4, .	2.3	8
11	Aldehydes and ketones in pyrolysis oil: analytical determination and their role in the aging process. <i>RSC Advances</i> , 2022, 12, 7374-7382.	3.6	5
12	Thermochemical and Catalytic Conversion Technologies for the Development of Brazilian Biomass Utilization. <i>Catalysts</i> , 2021, 11, 1549.	3.5	4
13	Fast Pyrolysis Oil Upgrading via HDO with Fe-Promoted Nb ₂ O ₅ -Supported Pd-Based Catalysts. <i>Energies</i> , 2022, 15, 4762.	3.1	4
14	Bio-Slurries From Lignocellulose. , 2017, , 217-228.		1
15	Fast Pyrolysis of Fresh Bio Waste and Ensiled Municipal Green Cut. <i>Chemie-Ingenieur-Technik</i> , 2015, 87, 1696-1706.	0.8	0