

Andreas Eschenbacher

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28
papers

259
citations

9
h-index

15
g-index

29
ext. papers

469
ext. citations

7.3
avg, IF

3.7
L-index

#	Paper	IF	Citations
28	Impact of ZSM-5 Deactivation on Bio-Oil Quality during Upgrading of Straw Derived Pyrolysis Vapors. <i>Energy & Fuels</i> , 2019 , 33, 397-412	4.1	31
27	Enhancing bio-oil quality and energy recovery by atmospheric hydrodeoxygenation of wheat straw pyrolysis vapors using Pt and Mo-based catalysts. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1991-2008	5.8	30
26	Catalytic deoxygenation of vapors obtained from ablative fast pyrolysis of wheat straw using mesoporous HZSM-5. <i>Fuel Processing Technology</i> , 2019 , 194, 106119	7.2	24
25	Deoxygenation of Wheat Straw Fast Pyrolysis Vapors using HZSM-5, Al ₂ O ₃ , HZSM-5/Al ₂ O ₃ Extrudates, and Desilicated HZSM-5/Al ₂ O ₃ Extrudates. <i>Energy & Fuels</i> , 2019 , 33, 6405-6420	4.1	22
24	Deoxygenation of wheat straw fast pyrolysis vapors over Na-Al ₂ O ₃ catalyst for production of bio-oil with low acidity. <i>Chemical Engineering Journal</i> , 2020 , 394, 124878	14.7	21
23	A comprehensive experimental investigation of plastic waste pyrolysis oil quality and its dependence on the plastic waste composition. <i>Fuel Processing Technology</i> , 2022 , 227, 107090	7.2	13
22	Performance of mesoporous HZSM-5 and Silicalite-1 coated mesoporous HZSM-5 catalysts for deoxygenation of straw fast pyrolysis vapors. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020 , 145, 104712	6.2	12
21	Opportunities and challenges for the application of post-consumer plastic waste pyrolysis oils as steam cracker feedstocks: To decontaminate or not to decontaminate?. <i>Waste Management</i> , 2021 , 138, 83-115	8.6	11
20	Co-processing of wood and wheat straw derived pyrolysis oils with FCC feedProduct distribution and effect of deoxygenation. <i>Fuel</i> , 2020 , 260, 116312	7.1	11
19	Maximizing light olefins and aromatics as high value base chemicals via single step catalytic conversion of plastic waste. <i>Chemical Engineering Journal</i> , 2022 , 428, 132087	14.7	9
18	Decomposition of carbon/phenolic composites for aerospace heatshields: Detailed speciation of phenolic resin pyrolysis products. <i>Aerospace Science and Technology</i> , 2021 , 119, 107079	4.9	8
17	Insights into the scalability of catalytic upgrading of biomass pyrolysis vapors using micro and bench-scale reactors. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3780-3796	5.8	7
16	Catalytic upgrading of tars generated in a 100kWth low temperature circulating fluidized bed gasifier for production of liquid bio-fuels in a polygeneration scheme. <i>Energy Conversion and Management</i> , 2020 , 207, 112538	10.6	7
15	Performance-screening of metal-impregnated industrial HZSM-5/Al ₂ O ₃ extrudates for deoxygenation and hydrodeoxygenation of fast pyrolysis vapors. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020 , 150, 104892	6	7
14	Micro-pyrolyzer screening of hydrodeoxygenation catalysts for efficient conversion of straw-derived pyrolysis vapors. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020 , 150, 104868	6	6
13	Fluid catalytic co-processing of bio-oils with petroleum intermediates: Comparison of vapour phase low pressure hydrotreating and catalytic cracking as pretreatment. <i>Fuel</i> , 2021 , 302, 121198	7.1	6
12	Pyrolysis of end-of-life polystyrene in a pilot-scale reactor: Maximizing styrene production.. <i>Waste Management</i> , 2021 , 139, 85-95	8.6	5

11	Counteracting Rapid Catalyst Deactivation by Concomitant Temperature Increase during Catalytic Upgrading of Biomass Pyrolysis Vapors Using Solid Acid Catalysts. <i>Catalysts</i> , 2020 , 10, 748	4	5
10	Boron-Modified Mesoporous ZSM-5 for the Conversion of Pyrolysis Vapors from LDPE and Mixed Polyolefins: Maximizing the C ₂ -C ₄ Olefin Yield with Minimal Carbon Footprint. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 14618-14630	8.3	4
9	Catalytic conversion of acetol over HZSM-5 catalysts: Influence of Si/Al ratio and introduction of mesoporosity. <i>Catalysis Today</i> , 2021 , 365, 301-309	5.3	4
8	A Review of Recent Research on Catalytic Biomass Pyrolysis and Low-Pressure Hydropyrolysis. <i>Energy & Fuels</i> ,	4.1	3
7	Primary Thermal Decomposition Pathways of Hydroxycinnamaldehydes. <i>Energy & Fuels</i> , 2021 , 35, 12216-12226	4.1	3
6	Fast pyrolysis of polyurethanes and polyisocyanurate with and without flame retardant: Compounds of interest for chemical recycling. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 160, 105374	6	2
5	A detailed experimental and kinetic modeling study on pyrolysis and oxidation of oxymethylene ether-2 (OME-2). <i>Combustion and Flame</i> , 2022 , 238, 111914	5.3	2
4	Detailed characterization of sulfur compounds in fast pyrolysis bio-oils using GC-SCD and GC-MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 159, 105288	6	2
3	Maximizing olefin production via steam cracking of distilled pyrolysis oils from difficult-to-recycle municipal plastic waste and marine litter. <i>Science of the Total Environment</i> , 2022 , 838, 156092	10.2	2
2	Study of the degradation of epoxy resins used in spacecraft components by thermogravimetry and fast pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022 , 161, 105397	6	1
1	Highly selective conversion of mixed polyolefins to valuable base chemicals using phosphorus-modified and steam-treated mesoporous HZSM-5 zeolite with minimal carbon footprint. <i>Applied Catalysis B: Environmental</i> , 2022 , 309, 121251	21.8	1