

# Andreas Eschenbacher

## List of Publications by Year in Descending Order

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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	Study of the degradation of epoxy resins used in spacecraft components by thermogravimetry and fast pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2022</b> , 161, 105397	6	1
27	A comprehensive experimental investigation of plastic waste pyrolysis oil quality and its dependence on the plastic waste composition. <i>Fuel Processing Technology</i> , <b>2022</b> , 227, 107090	7.2	13
26	A detailed experimental and kinetic modeling study on pyrolysis and oxidation of oxymethylene ether-2 (OME-2). <i>Combustion and Flame</i> , <b>2022</b> , 238, 111914	5.3	2
25	Maximizing light olefins and aromatics as high value base chemicals via single step catalytic conversion of plastic waste. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 132087	14.7	9
24	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> , <b>2022</b> , 309, 121251	21.8	1
23	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> , <b>2022</b> , 838, 156092	10.2	2
22	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> , <b>2021</b> , 160, 105374	6	2
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> , <b>2021</b> , 138, 83-115	8.6	11
20	Pyrolysis of end-of-life polystyrene in a pilot-scale reactor: Maximizing styrene production.. <i>Waste Management</i> , <b>2021</b> , 139, 85-95	8.6	5
19	Boron-Modified Mesoporous ZSM-5 for the Conversion of Pyrolysis Vapors from LDPE and Mixed Polyolefins: Maximizing the C <sub>2</sub> H <sub>4</sub> Olefin Yield with Minimal Carbon Footprint. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 14618-14630	8.3	4
18	Primary Thermal Decomposition Pathways of Hydroxycinnamaldehydes. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 12216-12226	4.1	3
17	Catalytic conversion of acetol over HZSM-5 catalysts – Influence of Si/Al ratio and introduction of mesoporosity. <i>Catalysis Today</i> , <b>2021</b> , 365, 301-309	5.3	4
16	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> , <b>2021</b> , 302, 121198	7.1	6
15	Detailed characterization of sulfur compounds in fast pyrolysis bio-oils using GC-MS and GC-SCD and GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2021</b> , 159, 105288	6	2
14	Decomposition of carbon/phenolic composites for aerospace heatshields: Detailed speciation of phenolic resin pyrolysis products. <i>Aerospace Science and Technology</i> , <b>2021</b> , 119, 107079	4.9	8
13	Insights into the scalability of catalytic upgrading of biomass pyrolysis vapors using micro and bench-scale reactors. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 3780-3796	5.8	7
12	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> , <b>2020</b> , 4, 1991-2008	5.8	30

11	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> , <b>2020</b> , 207, 112538	10.6	7
10	Deoxygenation of wheat straw fast pyrolysis vapors over Na-Al <sub>2</sub> O <sub>3</sub> catalyst for production of bio-oil with low acidity. <i>Chemical Engineering Journal</i> , <b>2020</b> , 394, 124878	14.7	21
9	Co-processing of wood and wheat straw derived pyrolysis oils with FCC feed Product distribution and effect of deoxygenation. <i>Fuel</i> , <b>2020</b> , 260, 116312	7.1	11
8	Micro-pyrolyzer screening of hydrodeoxygenation catalysts for efficient conversion of straw-derived pyrolysis vapors. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2020</b> , 150, 104868	6	6
7	Performance-screening of metal-impregnated industrial HZSM-5/Al <sub>2</sub> O <sub>3</sub> extrudates for deoxygenation and hydrodeoxygenation of fast pyrolysis vapors. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2020</b> , 150, 104892	6	7
6	Counteracting Rapid Catalyst Deactivation by Concomitant Temperature Increase during Catalytic Upgrading of Biomass Pyrolysis Vapors Using Solid Acid Catalysts. <i>Catalysts</i> , <b>2020</b> , 10, 748	4	5
5	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> , <b>2020</b> , 145, 104712	6	12
4	Deoxygenation of Wheat Straw Fast Pyrolysis Vapors using HZSM-5, Al <sub>2</sub> O <sub>3</sub> , HZSM-5/Al <sub>2</sub> O <sub>3</sub> Extrudates, and Desilicated HZSM-5/Al <sub>2</sub> O <sub>3</sub> Extrudates. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 6405-6420	4.1	22
3	Catalytic deoxygenation of vapors obtained from ablative fast pyrolysis of wheat straw using mesoporous HZSM-5. <i>Fuel Processing Technology</i> , <b>2019</b> , 194, 106119	7.2	24
2	Impact of ZSM-5 Deactivation on Bio-Oil Quality during Upgrading of Straw Derived Pyrolysis Vapors. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 397-412	4.1	31
1	A Review of Recent Research on Catalytic Biomass Pyrolysis and Low-Pressure Hydropyrolysis. <i>Energy &amp; Fuels</i> ,	4.1	3