

Andreas Hornung

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.

83
papers

1,600
citations

23
h-index

38
g-index

87
ext. papers

1,918
ext. citations

5.1
avg. IF

5.08
L-index

#	Paper	IF	Citations
83	Aqueous phase of thermo-catalytic reforming of sewage sludge [Quantity, quality, and its electrooxidative treatment by a boron-doped diamond electrode. <i>Separation and Purification Technology</i> , 2022 , 286, 120392	8.3	0
82	A step change towards sustainable aviation fuel from sewage sludge. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022 , 163, 105498	6	3
81	Pore development during CO ₂ and H ₂ O activation associated with the catalytic role of inherent inorganics in sewage sludge char and its performance during the reforming of volatiles. <i>Chemical Engineering Journal</i> , 2022 , 446, 137298	14.7	0
80	Chemical Recycling of WEEE Plastics Production of High Purity Monocyclic Aromatic Chemicals. <i>Processes</i> , 2021 , 9, 530	2.9	3
79	Numerical Simulation of the Thermo-catalytic Reforming Process: Up-scaling Study. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 4682-4692	3.9	
78	Deoxygenation of Bio-oil from Calcium-Rich Paper-Mill Waste. <i>Chemical Engineering and Technology</i> , 2021 , 44, 194-202	2	6
77	Thermochemical Conversion of Biomass and Upgrading of Bio-Products to Produce Fuels and Chemicals 2021 , 1-47		
76	Thermo-catalytic reforming of alberta-based biomass feedstock to produce biofuels. <i>Biomass and Bioenergy</i> , 2021 , 152, 106203	5.3	2
75	The Upgrading of Bio-Oil from the Intermediate Pyrolysis of Waste Biomass Using Steel Slag as a Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 18420-18432	8.3	7
74	Thermochemical conversion of agricultural wastes applying different reforming temperatures. <i>Fuel Processing Technology</i> , 2020 , 203, 106402	7.2	16
73	Demonstration of catalytic properties of de-inking sludge char as a carbon based sacrificial catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020 , 146, 104773	6	7
72	The effect of torrefaction pre-treatment on the pyrolysis of corn cobs. <i>Results in Engineering</i> , 2020 , 7, 100165	3.3	24
71	A conjugate heat transfer model for unconstrained melting of macroencapsulated phase change materials subjected to external convection. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 149, 119205	4.9	6
70	In-depth comparison of morphology, microstructure, and pathway of char derived from sewage sludge and relevant model compounds. <i>Waste Management</i> , 2020 , 102, 432-440	8.6	6
69	Valorisation of lignocellulosic biomass investigating different pyrolysis temperatures. <i>Journal of the Energy Institute</i> , 2020 , 93, 1960-1969	5.7	15
68	Optimization of the fractional collection efficiencies for electrostatic precipitators used in biomass-fired boilers. <i>Biomass and Bioenergy</i> , 2020 , 141, 105703	5.3	3
67	Food and Market Waste-A Pathway to Sustainable Fuels and Waste Valorization. <i>Energy & Fuels</i> , 2019 , 33, 9843-9850	4.1	18

66	Upscaling of Thermo-Catalytic Reforming Process from Lab to Pilot Scale. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 15853-15862	3.9	10
65	Greenhouse gas savings and energy balance of sewage sludge treated through an enhanced intermediate pyrolysis screw reactor combined with a reforming process. <i>Waste Management</i> , 2019 , 91, 42-53	8.6	7
64	A Review of the Valorization of Paper Industry Wastes by Thermochemical Conversion. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 15914-15929	3.9	16
63	Thermo-chemical conversion of biomass and upgrading to biofuel: The Thermo-Catalytic Reforming process [A review]. <i>Biofuels, Bioproducts and Biorefining</i> , 2019 , 13, 822-837	5.3	26
62	Fate of nano titanium dioxide during combustion of engineered nanomaterial-containing waste in a municipal solid waste incineration plant. <i>Waste Management and Research</i> , 2019 , 37, 1033-1042	4	10
61	A review on the current state of the art for the production of advanced liquid biofuels. <i>AIMS Energy</i> , 2019 , 7, 46-76	1.8	34
60	Unlocking the Potential of Biomass Energy in Pakistan. <i>Frontiers in Energy Research</i> , 2019 , 7,	3.8	20
59	Thermo-Catalytic Reforming of spent coffee grounds. <i>Bioresources and Bioprocessing</i> , 2019 , 6,	5.2	9
58	Ga/HZSM-5 Catalysed Acetic Acid Ketonisation for Upgrading of Biomass Pyrolysis Vapours. <i>Catalysts</i> , 2019 , 9, 841	4	11
57	Integrated intermediate catalytic pyrolysis of wheat husk. <i>Food and Bioproducts Processing</i> , 2019 , 114, 23-30	4.9	27
56	Thermo-catalytic reforming of co-form \square rejects (waste cleansing wipes). <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 132, 33-39	6	9
55	Integrated thermo-catalytic reforming of residual sugarcane bagasse in a laboratory scale reactor. <i>Fuel Processing Technology</i> , 2018 , 171, 277-286	7.2	34
54	Development and Tests of a Combined Filter for NO _x , Particulates, and SO ₂ Reduction. <i>Chemical Engineering and Technology</i> , 2018 , 41, 2150-2158	2	1
53	Thermo-catalytic reforming of pulper rejects from a secondary fibre mill. <i>Renewable Energy Focus</i> , 2018 , 26, 39-45	5.4	3
52	Dust Filtration Influence on the Performance of Catalytic Filters for NO _x Reduction. <i>Emission Control Science and Technology</i> , 2018 , 4, 300-311	2	2
51	Promoting Effect of ZSM-5 Catalyst on Carbonization via Hydrothermal Conversion of Sewage Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9461-9469	8.3	12
50	Boiler Design with Solid-Gaseous Fuel Staging to Reduce NO _x Emissions and Optimize Load Flexibility. <i>Chemical Engineering and Technology</i> , 2017 , 40, 289-297	2	3
49	Thermocatalytic Reforming of Biomass Waste Streams. <i>Energy Technology</i> , 2017 , 5, 104-110	3.5	23

48	Source and Biological Response of Biochar Organic Compounds Released into Water; Relationships with Bio-Oil Composition and Carbonization Degree. <i>Environmental Science & Technology</i> , 2017 , 51, 6580-6589	10.3	29
47	The role of thermo-catalytic reforming for energy recovery from food and drink supply chain wastes. <i>Energy Procedia</i> , 2017 , 123, 15-21	2.3	11
46	Thermo-Catalytic Reforming of municipal solid waste. <i>Waste Management</i> , 2017 , 68, 198-206	8.6	39
45	Profiles of Volatile Organic Compounds in Biochar: Insights into Process Conditions and Quality Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 510-517	8.3	40
44	Optimized Energetic Usage of BrewersTSpent Grains. <i>Chemical Engineering and Technology</i> , 2017 , 40, 306-312	2	11
43	The conversion of anaerobic digestion waste into biofuels via a novel Thermo-Catalytic Reforming process. <i>Waste Management</i> , 2016 , 47, 141-8	8.6	60
42	Modeling of a Methanol Synthesis Reactor for Storage of Renewable Energy and Conversion of CO ₂ [Comparison of Two Kinetic Models. <i>Chemical Engineering and Technology</i> , 2016 , 39, 233-245	2	22
41	At-line characterisation of compounds evolved during biomass pyrolysis by solid-phase microextraction SPME-GC-MS. <i>Microchemical Journal</i> , 2016 , 124, 36-44	4.8	11
40	Thermo-Catalytic Reforming of Woody Biomass. <i>Energy & Fuels</i> , 2016 , 30, 7923-7929	4.1	21
39	Upgraded biofuel from residue biomass by Thermo-Catalytic Reforming and hydrodeoxygenation. <i>Biomass and Bioenergy</i> , 2016 , 89, 91-97	5.3	33
38	Relationships between Chemical Characteristics and Phytotoxicity of Biochar from Poultry Litter Pyrolysis. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 6660-7	5.7	54
37	The Potential Application of Pyroligneous Acid in the UK Agricultural Industry. <i>Journal of Crop Improvement</i> , 2015 , 29, 228-246	1.4	23
36	Production and characterization of a new quality pyrolysis oil, char and syngas from digestate [Introducing the thermo-catalytic reforming process. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 113, 137-142	6	83
35	PYROLYSIS OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) FOR RECOVERING METALS AND ENERGY: PREVIOUS ACHIEVEMENTS AND CURRENT APPROACHES. <i>Environmental Engineering and Management Journal</i> , 2015 , 14, 1637-1647	0.6	14
34	Synthesis of green fuels from biogenic waste through thermochemical route [The role of heterogeneous catalyst: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 38, 131-153	16.2	45
33	Steam gasification of rapeseed, wood, sewage sludge and miscanthus biochars for the production of a hydrogen-rich syngas. <i>Biomass and Bioenergy</i> , 2014 , 69, 276-286	5.3	72
32	Economic Efficiency of Mobile Latent Heat Storages. <i>Energy Procedia</i> , 2014 , 46, 171-177	2.3	23
31	Biomass, Conversion Routes and Products [An Overview 2014 , 1-30		3

30	Formal Kinetic Parameters [Problems and Solutions in Deriving Proper Values 2014 , 257-284		0
29	Pyrolysis 2014 , 99-112		2
28	Influence of Feedstocks on Performance and Products of Processes 2014 , 203-207		
27	Integrated Processes Including Intermediate Pyrolysis 2014 , 209-216		
26	Bio-Hydrogen from Biomass 2014 , 217-225		
25	Analysis of Bio-Oils 2014 , 227-256		1
24	Numerical Simulation of the Thermal Degradation of Biomass [Approaches and Simplifications 2014 , 285-303		
23	Business Case Development 2014 , 305-320		1
22	Production of Biochar and Activated Carbon via Intermediate Pyrolysis [Recent Studies for Non-Woody Biomass 2014 , 321-338		2
21	Anaerobic Digestion 2014 , 31-59		
20	Reactor Design and its Impact on Performance and Products 2014 , 61-97		
19	Catalysis in Biomass Transformation 2014 , 113-131		1
18	Thermochemical Conversion of Biomass 2014 , 133-157		
17	Engines for Combined Heat and Power 2014 , 159-173		
16	Hydrothermal Liquefaction [Upgrading 2014 , 175-187		
15	Supercritical Conversion of Biomass 2014 , 189-202		
14	Characterization of engineered biochar for soil management. <i>Environmental Progress and Sustainable Energy</i> , 2014 , 33, 490-496	2.5	23
13	Thermo-chemical behaviour and chemical product formation from Polar seaweeds during intermediate pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 104, 131-138	6	31

12	Intermediate pyrolysis and product identification by TGA and Py-GC/MS of green microalgae and their extracted protein and lipid components. <i>Biomass and Bioenergy</i> , 2013 , 49, 38-48	5.3	210
11	The intermediate pyrolysis and catalytic steam reforming of Brewers spent grain. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 103, 328-342	6	80
10	Zirconia and alumina based catalysts for steam reforming of naphthalene. <i>Fuel</i> , 2013 , 105, 614-629	7.1	32
9	Characteristics of the upper phase of bio-oil obtained from co-pyrolysis of sewage sludge with wood, rapeseed and straw. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012 , 94, 120-125	6	71
8	Effect of sample preparation on the thermal degradation of metal-added biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012 , 94, 170-176	6	61
7	A comparative study on the pyrolysis of metal- and ash-enriched wood and the combustion properties of the gained char. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012 , 96, 196-202	6	58
6	Waste to power. <i>Tappi Journal</i> , 2012 , 11, 55-64	0.5	14
5	Sequential pyrolysis and catalytic low temperature reforming of wheat straw. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009 , 85, 145-150	6	25
4	Investigation of Thermal Degradation of Solids in an Isothermal, Gradient Free Reactor. <i>Chemical Engineering and Technology</i> , 1998 , 21, 332	2	14
3	Analysis of the Thermal Management of a High-Temperature Methanol Fuel Cell Using a Latent Heat Storage. <i>Energy Technology</i> , 2100543	3.5	
2	Biochar Just a black matter is not enough. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	2
1	Development of a mathematical model to calculate the energy savings and the system running costs through hydrogen recovery in wastewater electrolysis cells 210, 44-53		2