

Andreas Hornung

List of Publications by Citations

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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	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
82	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
81	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
80	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
79	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
78	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
77	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
76	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
75	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
74	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
73	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
72	Thermo-Catalytic Reforming of municipal solid waste. <i>Waste Management</i> , 2017 , 68, 198-206	8.6	39
71	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
70	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
69	Upgraded biofuel from residue biomass by Thermo-Catalytic Reforming and hydrodeoxygenation. <i>Biomass and Bioenergy</i> , 2016 , 89, 91-97	5.3	33
68	Zirconia and alumina based catalysts for steam reforming of naphthalene. <i>Fuel</i> , 2013 , 105, 614-629	7.1	32
67	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

66	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
65	Integrated intermediate catalytic pyrolysis of wheat husk. <i>Food and Bioproducts Processing</i> , 2019 , 114, 23-30	4.9	27
64	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
63	Sequential pyrolysis and catalytic low temperature reforming of wheat straw. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009 , 85, 145-150	6	25
62	The effect of torrefaction pre-treatment on the pyrolysis of corn cobs. <i>Results in Engineering</i> , 2020 , 7, 100165	3.3	24
61	Thermocatalytic Reforming of Biomass Waste Streams. <i>Energy Technology</i> , 2017 , 5, 104-110	3.5	23
60	The Potential Application of Pyrolygneous Acid in the UK Agricultural Industry. <i>Journal of Crop Improvement</i> , 2015 , 29, 228-246	1.4	23
59	Economic Efficiency of Mobile Latent Heat Storages. <i>Energy Procedia</i> , 2014 , 46, 171-177	2.3	23
58	Characterization of engineered biochar for soil management. <i>Environmental Progress and Sustainable Energy</i> , 2014 , 33, 490-496	2.5	23
57	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
56	Thermo-Catalytic Reforming of Woody Biomass. <i>Energy & Fuels</i> , 2016 , 30, 7923-7929	4.1	21
55	Unlocking the Potential of Biomass Energy in Pakistan. <i>Frontiers in Energy Research</i> , 2019 , 7,	3.8	20
54	Food and Market Waste-A Pathway to Sustainable Fuels and Waste Valorization. <i>Energy & Fuels</i> , 2019 , 33, 9843-9850	4.1	18
53	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
52	Thermochemical conversion of agricultural wastes applying different reforming temperatures. <i>Fuel Processing Technology</i> , 2020 , 203, 106402	7.2	16
51	Valorisation of lignocellulosic biomass investigating different pyrolysis temperatures. <i>Journal of the Energy Institute</i> , 2020 , 93, 1960-1969	5.7	15
50	Investigation of Thermal Degradation of Solids in an Isothermal, Gradient Free Reactor. <i>Chemical Engineering and Technology</i> , 1998 , 21, 332	2	14
49	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

48	Waste to power. <i>Tappi Journal</i> , 2012 , 11, 55-64	0.5	14
47	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
46	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
45	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
44	Optimized Energetic Usage of BrewersTSpent Grains. <i>Chemical Engineering and Technology</i> , 2017 , 40, 306-312	2	11
43	Ga/HZSM-5 Catalysed Acetic Acid Ketonisation for Upgrading of Biomass Pyrolysis Vapours. <i>Catalysts</i> , 2019 , 9, 841	4	11
42	Upscaling of Thermo-Catalytic Reforming Process from Lab to Pilot Scale. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 15853-15862	3.9	10
41	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
40	Thermo-catalytic reforming of co-form rejects (waste cleansing wipes). <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 132, 33-39	6	9
39	Thermo-Catalytic Reforming of spent coffee grounds. <i>Bioresources and Bioprocessing</i> , 2019 , 6,	5.2	9
38	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
37	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
36	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
35	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
34	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
33	Deoxygenation of Bio-oil from Calcium-Rich Paper-Mill Waste. <i>Chemical Engineering and Technology</i> , 2021 , 44, 194-202	2	6
32	Boiler Design with Solid-Gaseous Fuel Staging to Reduce NOx Emissions and Optimize Load Flexibility. <i>Chemical Engineering and Technology</i> , 2017 , 40, 289-297	2	3
31	Thermo-catalytic reforming of pulper rejects from a secondary fibre mill. <i>Renewable Energy Focus</i> , 2018 , 26, 39-45	5.4	3

30	Biomass, Conversion Routes and Products [An Overview 2014 , 1-30		3
29	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
28	Chemical Recycling of WEEE Plastics [Production of High Purity Monocyclic Aromatic Chemicals. <i>Processes</i> , 2021 , 9, 530	2.9	3
27	A step change towards sustainable aviation fuel from sewage sludge. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022 , 163, 105498	6	3
26	Pyrolysis 2014 , 99-112		2
25	Production of Biochar and Activated Carbon via Intermediate Pyrolysis [Recent Studies for Non-Woody Biomass 2014 , 321-338		2
24	Dust Filtration Influence on the Performance of Catalytic Filters for NOx Reduction. <i>Emission Control Science and Technology</i> , 2018 , 4, 300-311	2	2
23	Thermo-catalytic reforming of alberta-based biomass feedstock to produce biofuels. <i>Biomass and Bioenergy</i> , 2021 , 152, 106203	5.3	2
22	Biochar [Just a black matter is not enough. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	2
21	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
20	Development and Tests of a Combined Filter for NOx, Particulates, and SO2 Reduction. <i>Chemical Engineering and Technology</i> , 2018 , 41, 2150-2158	2	1
19	Analysis of Bio-Oils 2014 , 227-256		1
18	Business Case Development 2014 , 305-320		1
17	Catalysis in Biomass Transformation 2014 , 113-131		1
16	Formal Kinetic Parameters [Problems and Solutions in Deriving Proper Values 2014 , 257-284		0
15	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
14	Pore development during CO2 and H2O 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
13	Influence of Feedstocks on Performance and Products of Processes 2014 , 203-207		

- 12 Integrated Processes Including Intermediate Pyrolysis **2014**, 209-216
- 11 Bio-Hydrogen from Biomass **2014**, 217-225
- 10 Numerical Simulation of the Thermal Degradation of Biomass [Approaches and Simplifications **2014**, 285-303
- 9 Anaerobic Digestion **2014**, 31-59
- 8 Reactor Design and its Impact on Performance and Products **2014**, 61-97
- 7 Thermochemical Conversion of Biomass **2014**, 133-157
- 6 Engines for Combined Heat and Power **2014**, 159-173
- 5 Hydrothermal Liquefaction [Upgrading **2014**, 175-187
- 4 Supercritical Conversion of Biomass **2014**, 189-202
- 3 Numerical Simulation of the Thermo-catalytic Reforming Process: Up-scaling Study. *Industrial & Engineering Chemistry Research*, **2021**, 60, 4682-4692 3-9
- 2 Thermochemical Conversion of Biomass and Upgrading of Bio-Products to Produce Fuels and Chemicals **2021**, 1-47
- 1 Analysis of the Thermal Management of a High-Temperature Methanol Fuel Cell Using a Latent Heat Storage. *Energy Technology*, 2100543 3-5