Andreas Hornung

List of Publications by Year
in descending order

69	2,205	185998 28	233125 45
papers	citations	h-index	g-index

87	87	87	2728
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Intermediate pyrolysis and product identification by TGA and Py-GC/MS of green microalgae and their extracted protein and lipid components. Biomass and Bioenergy, 2013, 49, 38-48.	2.9	257
2	Production and characterization of a new quality pyrolysis oil, char and syngas from digestate â€“ Introducing the thermo-catalytic reforming process. Journal of Analytical and Applied Pyrolysis, 2015, 113, 137-142.	2.6	108
3	The intermediate pyrolysis and catalytic steam reforming of Brewers spent grain. Journal of Analytical and Applied Pyrolysis, 2013, 103, 328-342.	2.6	106
4	Steam gasification of rapeseed, wood, sewage sludge and miscanthus biochars for the production of a hydrogen-rich syngas. Biomass and Bioenergy, 2014, 69, 276-286.	2.9	94
5	Characteristics of the upper phase of bio-oil obtained from co-pyrolysis of sewage sludge with wood, rapeseed and straw. Journal of Analytical and Applied Pyrolysis, 2012, 94, 120-125.	2.6	81
6	The conversion of anaerobic digestion waste into biofuels via a novel Thermo-Catalytic Reforming process. Waste Management, 2016, 47, 141-148.	3.7	75
7	Effect of sample preparation on the thermal degradation of metal-added biomass. Journal of Analytical and Applied Pyrolysis, 2012, 94, 170-176.	2.6	68
8	A comparative study on the pyrolysis of metal- and ash-enriched wood and the combustion properties of the gained char. Journal of Analytical and Applied Pyrolysis, 2012, 96, 196-202.	2.6	68
9	Relationships between Chemical Characteristics and Phytotoxicity of Biochar from Poultry Litter Pyrolysis. Journal of Agricultural and Food Chemistry, 2015, 63, 6660-6667.	2.4	67
10	Profiles of Volatile Organic Compounds in Biochar: Insights into Process Conditions and Quality Assessment. ACS Sustainable Chemistry and Engineering, 2017, 5, 510-517.	3.2	57
11	Synthesis of green fuels from biogenic waste through thermochemical route â€“ The role of heterogeneous catalyst: A review. Renewable and Sustainable Energy Reviews, 2014, 38, 131-153.	8.2	56
12	A review on the current state of the art for the production of advanced liquid biofuels. AIMS Energy, 2019, 7, 46-76.	1.1	54
13	Thermo-Catalytic Reforming of municipal solid waste. Waste Management, 2017, 68, 198-206.	3.7	48
14	Thermoâ€chemical conversion of biomass and upgrading to biofuel: The Thermoâ€Catalytic Reforming process â€“ A review. Biofuels, Bioproducts and Biorefining, 2019, 13, 822-837.	1.9	46
15	The effect of torrefaction pre-treatment on the pyrolysis of corn cobs. Results in Engineering, 2020, 7, 100165.	2.2	44
16	Thermo-chemical behaviour and chemical product formation from Polar seaweeds during intermediate pyrolysis. Journal of Analytical and Applied Pyrolysis, 2013, 104, 131-138.	2.6	43
17	Integrated thermo-catalytic reforming of residual sugarcane bagasse in a laboratory scale reactor. Fuel Processing Technology, 2018, 171, 277-286.	3.7	40
18	Upgraded biofuel from residue biomass by Thermo-Catalytic Reforming and hydrodeoxygenation. Biomass and Bioenergy, 2016, 89, 91-97.	2.9	38

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19	Integrated intermediate catalytic pyrolysis of wheat husk. Food and Bioproducts Processing, 2019, 114, 23-30.	1.8	37
20	Food and Market Wasteâ€"A Pathway to Sustainable Fuels and Waste Valorization. Energy & Fuels, 2019, 33, 9843-9850.	2.5	36
21	Source and Biological Response of Biochar Organic Compounds Released into Water; Relationships with Bio-Oil Composition and Carbonization Degree. Environmental Science & Technology, 2017, 51, 6580-6589.	4.6	35
22	The Potential Application of Pyroligneous Acid in the UK Agricultural Industry. Journal of Crop Improvement, 2015, 29, 228-246.	0.9	34
23	Zirconia and alumina based catalysts for steam reforming of naphthalene. Fuel, 2013, 105, 614-629.	3.4	33
24	Modeling of a Methanol Synthesis Reactor for Storage of Renewable Energy and Conversion of CO₂ â€" Comparison of Two Kinetic Models. Chemical Engineering and Technology, 2016, 39, 233-245.	0.9	33
25	Unlocking the Potential of Biomass Energy in Pakistan. Frontiers in Energy Research, 2019, 7, .	1.2	33
26	Valorisation of lignocellulosic biomass investigating different pyrolysis temperatures. Journal of the Energy Institute, 2020, 93, 1960-1969.	2.7	32
27	Economic Efficiency of Mobile Latent Heat Storages. Energy Procedia, 2014, 46, 171-177.	1.8	30
28	Sequential pyrolysis and catalytic low temperature reforming of wheat straw. Journal of Analytical and Applied Pyrolysis, 2009, 85, 145-150.	2.6	29
29	Thermocatalytic Reforming of Biomass Waste Streams. Energy Technology, 2017, 5, 104-110.	1.8	28
30	A Review of the Valorization of Paper Industry Wastes by Thermochemical Conversion. Industrial & Engineering Chemistry Research, 2019, 58, 15914-15929.	1.8	28
31	Thermo-Catalytic Reforming of Woody Biomass. Energy & Fuels, 2016, 30, 7923-7929.	2.5	27
32	Characterization of engineered biochar for soil management. Environmental Progress and Sustainable Energy, 2014, 33, 490-496.	1.3	25
33	In-depth comparison of morphology, microstructure, and pathway of char derived from sewage sludge and relevant model compounds. Waste Management, 2020, 102, 432-440.	3.7	23
34	Thermochemical conversion of agricultural wastes applying different reforming temperatures. Fuel Processing Technology, 2020, 203, 106402.	3.7	23
35	PYROLYSIS OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) FOR RECOVERING METALS AND ENERGY: PREVIOUS ACHIEVEMENTS AND CURRENT APPROACHES. Environmental Engineering and Management Journal, 2015, 14, 1637-1647.	0.2	21
36	Promoting Effect of ZSM-5 Catalyst on Carbonization via Hydrothermal Conversion of Sewage Sludge. ACS Sustainable Chemistry and Engineering, 2018, 6, 9461-9469.	3.2	20

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37	Thermo-Catalytic Reforming of spent coffee grounds. Bioresources and Bioprocessing, 2019, 6, .	2.0	20
38	Ga/HZSM-5 Catalysed Acetic Acid Ketonisation for Upgrading of Biomass Pyrolysis Vapours. Catalysts, 2019, 9, 841.	1.6	20
39	The Upgrading of Bio-Oil from the Intermediate Pyrolysis of Waste Biomass Using Steel Slag as a Catalyst. ACS Sustainable Chemistry and Engineering, 2020, 8, 18420-18432.	3.2	18
40	Investigation of Thermal Degradation of Solids in an Isothermal, Gradient Free Reactor. Chemical Engineering and Technology, 1998, 21, 332.	0.9	17
41	Upscaling of Thermo-Catalytic Reforming Process from Lab to Pilot Scale. Industrial & Engineering Chemistry Research, 2019, 58, 15853-15862.	1.8	17
42	A step change towards sustainable aviation fuel from sewage sludge. Journal of Analytical and Applied Pyrolysis, 2022, 163, 105498.	2.6	17
43	Greenhouse gas savings and energy balance of sewage sludge treated through an enhanced intermediate pyrolysis screw reactor combined with a reforming process. Waste Management, 2019, 91, 42-53.	3.7	16
44	Optimized Energetic Usage of Brewers' Spent Grains. Chemical Engineering and Technology, 2017, 40, 306-312.	0.9	14
45	Chemical Recycling of WEEE Plasticsâ€"Production of High Purity Monocyclic Aromatic Chemicals. Processes, 2021, 9, 530.	1.3	14
46	Waste to power. Tappi Journal, 2012, 11, 55-64.	0.2	14
47	The role of thermo-catalytic reforming for energy recovery from food and drink supply chain wastes. Energy Procedia, 2017, 123, 15-21.	1.8	13
48	Biocharâ€"just a black matter is not enough. Biomass Conversion and Biorefinery, 2024, 14, 5889-5900.	2.9	13
49	At-line characterisation of compounds evolved during biomass pyrolysis by solid-phase microextraction SPME-GC-MS. Microchemical Journal, 2016, 124, 36-44.	2.3	12
50	Fate of nano titanium dioxide during combustion of engineered nanomaterial-containing waste in a municipal solid waste incineration plant. Waste Management and Research, 2019, 37, 1033-1042.	2.2	12
51	Thermo-catalytic reforming of co-formÂ® rejects (waste cleansing wipes). Journal of Analytical and Applied Pyrolysis, 2018, 132, 33-39.	2.6	11
52	A conjugate heat transfer model for unconstrained melting of macroencapsulated phase change materials subjected to external convection. International Journal of Heat and Mass Transfer, 2020, 149, 119205.	2.5	11
53	Deoxygenation of Bioâ€oil from Calciumâ€Rich Paperâ€Mill Waste. Chemical Engineering and Technology, 2021, 44, 194-202.	0.9	9
54	Demonstration of catalytic properties of de-inking sludge char as a carbon based sacrificial catalyst. Journal of Analytical and Applied Pyrolysis, 2020, 146, 104773.	2.6	9

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55	Aqueous phase of thermo-catalytic reforming of sewage sludge â€“ quantity, quality, and its electrooxidative treatment by a boron-doped diamond electrode. Separation and Purification Technology, 2022, 286, 120392.	3.9	9
56	Thermo-catalytic reforming of pulper rejects from a secondary fibre mill. Renewable Energy Focus, 2018, 26, 39-45.	2.2	8
57	Optimization of the fractional collection efficiencies for electrostatic precipitators used in biomass-fired boilers. Biomass and Bioenergy, 2020, 141, 105703.	2.9	7
58	Thermo-catalytic reforming of alberta-based biomass feedstock to produce biofuels. Biomass and Bioenergy, 2021, 152, 106203.	2.9	6
59	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. Chemical Engineering Journal, 2022, 446, 137298.	6.6	6
60	Biomass Pyrolysis. , 2012, , 1517-1531.		5
61	Boiler Design with Solid-Gaseous Fuel Staging to Reduce NOx Emissions and Optimize Load Flexibility. Chemical Engineering and Technology, 2017, 40, 289-297.	0.9	3
62	Development of a mathematical model to calculate the energy savings and the system running costs through hydrogen recovery in wastewater electrolysis cells. , 0, 210, 44-53.		3
63	Dust Filtration Influence on the Performance of Catalytic Filters for NOx Reduction. Emission Control Science and Technology, 2018, 4, 300-311.	0.8	2
64	Development and Tests of a Combined Filter for NO_x, Particulates, and SO₂ Reduction. Chemical Engineering and Technology, 2018, 41, 2150-2158.	0.9	2
65	Influence of Feedstocks on Performance and Products of Processes. , 2014, , 203-207.		0
66	Integrated Processes Including Intermediate Pyrolysis. , 2014, , 209-216.		0
67	Thermochemical Conversion of Biomass and Upgrading of Bio-Products to Produce Fuels and Chemicals. , 2021, , 1-47.		0
68	Numerical Simulation of the Thermo-catalytic Reforming Process: Up-scaling Study. Industrial & Engineering Chemistry Research, 2021, 60, 4682-4692.	1.8	0
69	Analysis of the Thermal Management of a Highâ€Temperature Methanol Fuel Cell Using a Latent Heat Storage. Energy Technology, 2021, 9, 2100543.	1.8	0