Efthymios Kantarelis

List of Publications by Year
in descending order

31	1,072	361413	477307
papers	citations	20 h-index	29 g-index

31	31	31	1354
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation of the thermal decomposition of printed circuit boards (PCBs) via thermogravimetric analysis (TGA) and analytical pyrolysis (Pyâ€“GC/MS). Journal of Analytical and Applied Pyrolysis, 2015, 115, 337-343.	5.5	115
2	Computational fluid dynamics modeling of biomass fast pyrolysis in a fluidized bed reactor, using a comprehensive chemistry scheme. Fuel, 2014, 117, 704-715.	6.4	104
3	Sunflower shells utilization for energetic purposes in an integrated approach of energy crops: Laboratory study pyrolysis and kinetics. Bioresource Technology, 2008, 99, 3174-3181.	9.6	74
4	Effect of zeolite to binder ratio on product yields and composition during catalytic steam pyrolysis of biomass over transition metal modified HZSM5. Fuel, 2014, 122, 119-125.	6.4	68
5	Thermochemical treatment of E-waste from small household appliances using highly pre-heated nitrogen-thermogravimetric investigation and pyrolysis kinetics. Applied Energy, 2011, 88, 922-929.	10.1	64
6	Production of Liquid Feedstock from Biomass via Steam Pyrolysis in a Fluidized Bed Reactor. Energy & Fuels, 2013, 27, 4748-4759.	5.1	52
7	Sustainable valorization of plastic wastes for energy with environmental safety via High-Temperature Pyrolysis (HTP) and High-Temperature Steam Gasification (HTSG). Journal of Hazardous Materials, 2009, 167, 675-684.	12.4	51
8	Effect of biomass leaching on H2 production, ash and tar behavior during high temperature steam gasification (HTSG) process. International Journal of Hydrogen Energy, 2009, 34, 5666-5673.	7.1	50
9	Valorization of cotton stalks by fast pyrolysis and fixed bed air gasification for syngas production as precursor of second generation biofuels and sustainable agriculture. Bioresource Technology, 2009, 100, 942-947.	9.6	48
10	An Eulerâ€“Euler approach to modeling biomass fast pyrolysis inÂfluidized-bed reactors â€“ Focusing on the gas phase. Applied Thermal Engineering, 2013, 58, 344-353.	6.0	44
11	Experimental investigation of the influence of reaction atmosphere on the pyrolysis of printed circuit boards. Applied Energy, 2017, 204, 1065-1073.	10.1	34
12	Wood-derived acid leaching of biomass for enhanced production of sugars and sugar derivatives during pyrolysis: Influence of acidity and treatment time. Journal of Analytical and Applied Pyrolysis, 2017, 127, 329-334.	5.5	34
13	Development of a bimetallic dolomite based tar cracking catalyst. Catalysis Communications, 2012, 20, 36-40.	3.3	31
14	Biomass pyrolysis gas conditioning over an iron-based catalyst for mild deoxygenation and hydrogen production. Fuel, 2018, 211, 149-158.	6.4	31
15	Reduction of brominated flame retardants (BFRs) in plastics from waste electrical and electronic equipment (WEEE) by solvent extraction and the influence on their thermal decomposition. Waste Management, 2019, 94, 165-171.	7.4	30
16	Bioenergy production for CO2-mitigation and rural development via valorisation of low value crop residues and their upgrade into energy carriers: A challenge for sunflower and soya residues. Bioresource Technology, 2010, 101, 619-623.	9.6	28
17	Sustainable Valorization of Bamboo via High-Temperature Steam Pyrolysis for Energy Production and Added Value Materials. Energy & Fuels, 2010, 24, 6142-6150.	5.1	25
18	Effects of Silica-Supported Nickel and Vanadium on Liquid Products of Catalytic Steam Pyrolysis of Biomass. Energy & Fuels, 2014, 28, 591-599.	5.1	25

#	Article	IF	Citations
19	Performance analysis and fate of bromine in a single screw reactor for pyrolysis of waste electrical and electronic equipment (WEEE). Chemical Engineering Research and Design, 2020, 143, 313-321.	5.6	25
20	Automated digital design for 3D-printed individualized therapies. International Journal of Pharmaceutics, 2021, 599, 120437.	5.2	24
21	Tar formation during eucalyptus gasification in a bubbling fluidized bed reactor: Effect of feedstock and reactor bed composition. Energy Conversion and Management, 2021, 229, 113749.	9.2	20
22	Iron-based catalyst (Fe2-xNixTiO5) for tar decomposition in biomass gasification. Fuel, 2021, 300, 120859.	6.4	19
23	Experimental Investigation of Pyrolysis of Printed Circuit Boards for Energy and Materials Recovery under Nitrogen and Steam Atmosphere. Energy Procedia, 2017, 105, 986-991.	1.8	17
24	Engineering the Catalytic Properties of HZSM5 by Cobalt Modification and Post-synthetic Hierarchical Porosity Development. Topics in Catalysis, 2019, 62, 773-785.	2.8	17
25	Simulation of Bed Dynamics and Primary Products from Fast Pyrolysis of Biomass: Steam Compared to Nitrogen as a Fluidizing Agent. Industrial & Engineering Chemistry Research, 2014, 53, 12129-12142.	3.7	16
26	The Impact of a Mild Sub-Critical Hydrothermal Carbonization Pretreatment on Umbila Wood. A Mass and Energy Balance Perspective. Energies, 2015, 8, 2165-2175.	3.1	12
27	Effects of Porous Structure Development and Ash on the Steam Gasification Reactivity of Biochar Residues from a Commercial Gasifier at Different Temperatures. Energies, 2020, 13, 5004.	3.1	7
28	Gas-Phase Potassium Effects and the Role of the Support on the Tar Reforming of Biomass-Derived Producer Gas Over Sulfur-Equilibrated Ni/MgAl₂O₄. Energy & Fuels, 2020, 34, 11103-11111.	5.1	6
29	Study of the effects of gaseous micro-expansion on the efficiency of convective heat transfer during pyrolysis. Fuel Processing Technology, 2013, 106, 253-261.	7.2	1
30	Sustainable exploitation of salix via high temperature steam pyrolysis for energy production and added value materials. , 2013, , .		0
31	Mechanically Assisted Low-Temperature Pyrolysis of Hydrocarbons. Energy and Power Engineering, 2018, 10, 133-153.	0.8	0