

# Efthymios Kantarelis

## List of Publications by Year in descending order

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31  
papers

1,072  
citations

361413

20  
h-index

477307

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1354  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tar formation during eucalyptus gasification in a bubbling fluidized bed reactor: Effect of feedstock and reactor bed composition. <i>Energy Conversion and Management</i> , 2021, 229, 113749.	9.2	20
2	Automated digital design for 3D-printed individualized therapies. <i>International Journal of Pharmaceutics</i> , 2021, 599, 120437.	5.2	24
3	Iron-based catalyst (Fe <sub>2</sub> -xNi <sub>x</sub> TiO <sub>5</sub> ) for tar decomposition in biomass gasification. <i>Fuel</i> , 2021, 300, 120859.	6.4	19
4	Performance analysis and fate of bromine in a single screw reactor for pyrolysis of waste electrical and electronic equipment (WEEE). <i>Chemical Engineering Research and Design</i> , 2020, 143, 313-321.	5.6	25
5	Gas-Phase Potassium Effects and the Role of the Support on the Tar Reforming of Biomass-Derived Producer Gas Over Sulfur-Equilibrated Ni/MgAl <sub>2</sub> O <sub>4</sub> . <i>Energy &amp; Fuels</i> , 2020, 34, 11103-11111.	5.1	6
6	Effects of Porous Structure Development and Ash on the Steam Gasification Reactivity of Biochar Residues from a Commercial Gasifier at Different Temperatures. <i>Energies</i> , 2020, 13, 5004.	3.1	7
7	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. <i>Waste Management</i> , 2019, 94, 165-171.	7.4	30
8	Engineering the Catalytic Properties of HZSM5 by Cobalt Modification and Post-synthetic Hierarchical Porosity Development. <i>Topics in Catalysis</i> , 2019, 62, 773-785.	2.8	17
9	Biomass pyrolysis gas conditioning over an iron-based catalyst for mild deoxygenation and hydrogen production. <i>Fuel</i> , 2018, 211, 149-158.	6.4	31
10	Mechanically Assisted Low-Temperature Pyrolysis of Hydrocarbons. <i>Energy and Power Engineering</i> , 2018, 10, 133-153.	0.8	0
11	Experimental investigation of the influence of reaction atmosphere on the pyrolysis of printed circuit boards. <i>Applied Energy</i> , 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. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 127, 329-334.	5.5	34
13	Experimental Investigation of Pyrolysis of Printed Circuit Boards for Energy and Materials Recovery under Nitrogen and Steam Atmosphere. <i>Energy Procedia</i> , 2017, 105, 986-991.	1.8	17
14	The Impact of a Mild Sub-Critical Hydrothermal Carbonization Pretreatment on Umbila Wood. A Mass and Energy Balance Perspective. <i>Energies</i> , 2015, 8, 2165-2175.	3.1	12
15	Investigation of the thermal decomposition of printed circuit boards (PCBs) via thermogravimetric analysis (TGA) and analytical pyrolysis (Py-GC/MS). <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 115, 337-343.	5.5	115
16	Effect of zeolite to binder ratio on product yields and composition during catalytic steam pyrolysis of biomass over transition metal modified HZSM5. <i>Fuel</i> , 2014, 122, 119-125.	6.4	68
17	Effects of Silica-Supported Nickel and Vanadium on Liquid Products of Catalytic Steam Pyrolysis of Biomass. <i>Energy &amp; Fuels</i> , 2014, 28, 591-599.	5.1	25
18	Simulation of Bed Dynamics and Primary Products from Fast Pyrolysis of Biomass: Steam Compared to Nitrogen as a Fluidizing Agent. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 12129-12142.	3.7	16

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19	Computational fluid dynamics modeling of biomass fast pyrolysis in a fluidized bed reactor, using a comprehensive chemistry scheme. <i>Fuel</i> , 2014, 117, 704-715.	6.4	104
20	Production of Liquid Feedstock from Biomass via Steam Pyrolysis in a Fluidized Bed Reactor. <i>Energy &amp; Fuels</i> , 2013, 27, 4748-4759.	5.1	52
21	An Euler-Euler approach to modeling biomass fast pyrolysis in fluidized-bed reactors Focusing on the gas phase. <i>Applied Thermal Engineering</i> , 2013, 58, 344-353.	6.0	44
22	Study of the effects of gaseous micro-expansion on the efficiency of convective heat transfer during pyrolysis. <i>Fuel Processing Technology</i> , 2013, 106, 253-261.	7.2	1
23	Sustainable exploitation of salix via high temperature steam pyrolysis for energy production and added value materials. , 2013, , .		0
24	Development of a bimetallic dolomite based tar cracking catalyst. <i>Catalysis Communications</i> , 2012, 20, 36-40.	3.3	31
25	Thermochemical treatment of E-waste from small household appliances using highly pre-heated nitrogen-thermogravimetric investigation and pyrolysis kinetics. <i>Applied Energy</i> , 2011, 88, 922-929.	10.1	64
26	Bioenergy production for CO <sub>2</sub> -mitigation and rural development via valorisation of low value crop residues and their upgrade into energy carriers: A challenge for sunflower and soya residues. <i>Bioresource Technology</i> , 2010, 101, 619-623.	9.6	28
27	Sustainable Valorization of Bamboo via High-Temperature Steam Pyrolysis for Energy Production and Added Value Materials. <i>Energy &amp; Fuels</i> , 2010, 24, 6142-6150.	5.1	25
28	Effect of biomass leaching on H <sub>2</sub> production, ash and tar behavior during high temperature steam gasification (HTSG) process. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 5666-5673.	7.1	50
29	Sustainable valorization of plastic wastes for energy with environmental safety via High-Temperature Pyrolysis (HTP) and High-Temperature Steam Gasification (HTSG). <i>Journal of Hazardous Materials</i> , 2009, 167, 675-684.	12.4	51
30	Valorization of cotton stalks by fast pyrolysis and fixed bed air gasification for syngas production as precursor of second generation biofuels and sustainable agriculture. <i>Bioresource Technology</i> , 2009, 100, 942-947.	9.6	48
31	Sunflower shells utilization for energetic purposes in an integrated approach of energy crops: Laboratory study pyrolysis and kinetics. <i>Bioresource Technology</i> , 2008, 99, 3174-3181.	9.6	74