

Pietro Bartocci

List of Publications by Citations

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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.

84
papers

1,867
citations

25
h-index

41
g-index

88
ext. papers

2,427
ext. citations

6.7
avg, IF

5.31
L-index

#	Paper	IF	Citations
84	Thermogravimetric analysis and kinetic study of poplar wood pyrolysis. <i>Applied Energy</i> , 2012 , 97, 491-497	10.7	478
83	Bioenergy in China: Evaluation of domestic biomass resources and the associated greenhouse gas mitigation potentials. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 127, 109842	16.2	65
82	Technologies for energetic exploitation of biodiesel chain derived glycerol: Oxy-fuels production by catalytic conversion. <i>Applied Energy</i> , 2013 , 102, 63-71	10.7	65
81	Recovery of precious metals from scrap printed circuit boards through pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 111, 140-147	6	57
80	Straight and waste vegetable oil in engines: Review and experimental measurement of emissions, fuel consumption and injector fouling on a turbocharged commercial engine. <i>Fuel</i> , 2016 , 182, 198-209	7.1	57
79	Thermogravimetric analysis of the behavior of sub-bituminous coal and cellulosic ethanol residue during co-combustion. <i>Bioresource Technology</i> , 2015 , 186, 154-162	11	55
78	Phytohormones and Effects on Growth and Metabolites of Microalgae: A Review. <i>Fermentation</i> , 2018 , 4, 25	4.7	50
77	Magnetic biochar obtained through catalytic pyrolysis of macroalgae: A promising anode material for Li-ion batteries. <i>Renewable Energy</i> , 2019 , 140, 704-714	8.1	43
76	A low-cost pyrogas cleaning system for power generation: Scaling up from lab to pilot. <i>Applied Energy</i> , 2013 , 111, 1080-1088	10.7	42
75	An experimental and kinetic modeling study of glycerol pyrolysis. <i>Applied Energy</i> , 2016 , 184, 68-76	10.7	41
74	Pyrolysis of pellets made with biomass and glycerol: Kinetic analysis and evolved gas analysis. <i>Biomass and Bioenergy</i> , 2017 , 97, 11-19	5.3	39
73	Analysis of optimal temperature, pressure and binder quantity for the production of biocarbon pellet to be used as a substitute for coke. <i>Applied Energy</i> , 2019 , 256, 113933	10.7	39
72	Hydrogen-rich gas production through steam gasification of charcoal pellet. <i>Applied Thermal Engineering</i> , 2018 , 132, 817-823	5.8	38
71	Technical and economic feasibility analysis of an anaerobic digestion plant fed with canteen food waste. <i>Energy Conversion and Management</i> , 2019 , 180, 938-948	10.6	37
70	Prospective contributions of biomass pyrolysis to China's 2050 carbon reduction and renewable energy goals. <i>Nature Communications</i> , 2021 , 12, 1698	17.4	36
69	Batch pyrolysis of pellet made of biomass and crude glycerol: Mass and energy balances. <i>Renewable Energy</i> , 2018 , 124, 172-179	8.1	35
68	LCA analysis of food waste co-digestion. <i>Science of the Total Environment</i> , 2020 , 709, 136187	10.2	34

67	Review of public-private partnerships in agro-energy districts in Southern Europe: The cases of Greece and Italy. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 39, 667-678	16.2	33
66	Public-private partnerships value in bioenergy projects: Economic feasibility analysis based on two case studies. <i>Biomass and Bioenergy</i> , 2014 , 66, 387-397	5.3	33
65	Rotary Kiln Slow Pyrolysis for Syngas and Char Production From Biomass and Waste [Part I: Working Envelope of the Reactor. <i>Journal of Engineering for Gas Turbines and Power</i> , 2007 , 129, 901-907 ^{1.7}	1.7	33
64	Environmental impact of Sagrantino and Grechetto grapes cultivation for wine and vinegar production in central Italy. <i>Journal of Cleaner Production</i> , 2017 , 140, 569-580	10.3	32
63	Ultrasonic emulsification assisted immobilized Burkholderia cepacia lipase catalyzed transesterification of soybean oil for biodiesel production in a novel reactor design. <i>Renewable Energy</i> , 2019 , 135, 1025-1034	8.1	28
62	Carbon footprint of truffle sauce in central Italy by direct measurement of energy consumption of different olive harvesting techniques. <i>Journal of Cleaner Production</i> , 2015 , 87, 188-196	10.3	26
61	Evaluation of the kinematic viscosity in biodiesel production with waste vegetable oil, ultrasonic irradiation and enzymatic catalysis: A comparative study in two-reactors. <i>Fuel</i> , 2018 , 227, 448-456	7.1	26
60	Bimetallic carbon nanotube encapsulated Fe-Ni catalysts from fast pyrolysis of waste plastics and their oxygen reduction properties. <i>Waste Management</i> , 2020 , 109, 119-126	8.6	26
59	A simplified method for kinetic modeling of coffee silver skin pyrolysis by coupling pseudo-components peaks deconvolution analysis and model free-isoconversional methods. <i>Fuel</i> , 2020 , 278, 118260	7.1	25
58	Preparation of Iron- and Nitrogen-Codoped Carbon Nanotubes from Waste Plastics Pyrolysis for the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2020 , 13, 938-944	8.3	25
57	Thermal degradation of driftwood: Determination of the concentration of sodium, calcium, magnesium, chlorine and sulfur containing compounds. <i>Waste Management</i> , 2017 , 60, 151-157	8.6	24
56	Kinetic Analysis of Digestate Slow Pyrolysis with the Application of the Master-Plots Method and Independent Parallel Reactions Scheme. <i>Molecules</i> , 2019 , 24,	4.8	23
55	Pyrolysis-catalysis of different waste plastics over Fe/Al ₂ O ₃ catalyst: High-value hydrogen, liquid fuels, carbon nanotubes and possible reaction mechanisms. <i>Energy Conversion and Management</i> , 2021 , 229, 113794	10.6	23
54	Codigestion of Untreated and Treated Sewage Sludge with the Organic Fraction of Municipal Solid Wastes. <i>Fermentation</i> , 2017 , 3, 35	4.7	20
53	Pyrolysis of Olive Stone for Energy Purposes. <i>Energy Procedia</i> , 2015 , 82, 374-380	2.3	20
52	Rotary Kiln Slow Pyrolysis for Syngas and Char Production From Biomass and Waste [Part II: Introducing Product Yields in the Energy Balance. <i>Journal of Engineering for Gas Turbines and Power</i> , 2007 , 129, 908-913	1.7	20
51	Scaled-up biodiesel synthesis from Chinese Tallow Kernel oil catalyzed by Burkholderia cepacia lipase through ultrasonic assisted technology: A non-edible and alternative source of bio energy. <i>Ultrasonics Sonochemistry</i> , 2019 , 58, 104658	8.9	16
50	Effect of Torrefaction on Properties of Pellets Produced from Woody Biomass. <i>Energy & Fuels</i> , 2020 , 34, 15343-15354	4.1	14

49	Selenastrum Capricornutum a New Strain of Algae for Biodiesel Production. <i>Fermentation</i> , 2020 , 6, 46	4.7	13
48	Effect of Heavy Metals in the Performance of Anaerobic Digestion of Olive Mill Waste. <i>Processes</i> , 2020 , 8, 1146	2.9	12
47	VOC emissions of coal-fired power plants in China based on life cycle assessment method. <i>Fuel</i> , 2021 , 292, 120325	7.1	12
46	Natural Draft-Improved Carbonization Retort System for Biocarbon Production from Prosopis juliflora Biomass. <i>Energy & Fuels</i> , 2019 , 33, 11113-11124	4.1	11
45	An Incubation System to Enhance Biogas and Methane Production: A Case Study of an Existing Biogas Plant in Umbria, Italy. <i>Processes</i> , 2019 , 7, 925	2.9	10
44	Carbonization using an Improved Natural Draft Retort Reactor in India: Comparison between the performance of two woody biomasses, Prosopis juliflora and Casuarina equisetifolia. <i>Fuel</i> , 2021 , 285, 119095	7.1	10
43	On the self-heating behavior of upgraded biochar pellets blended with pyrolysis oil: Effects of process parameters. <i>Fuel</i> , 2020 , 278, 118395	7.1	9
42	A techno-economic analysis of a solar PV and DC battery storage system for a community energy sharing. <i>Energy</i> , 2022 , 244, 123191	7.9	9
41	i-REXFO LIFE: an innovative business model to reduce food waste. <i>Energy Procedia</i> , 2018 , 148, 439-446	2.3	9
40	Design and Preliminary Operation of a Gasification Plant for Micro-CHP with Internal Combustion Engine and SOFC. <i>Energy Procedia</i> , 2015 , 81, 298-308	2.3	8
39	Gas Turbines CHP for Bioethanol and Biodiesel Production Without Waste Streams 2011 ,		8
38	Considerations on factors affecting biochar densification behavior based on a multiparameter model. <i>Energy</i> , 2021 , 221, 119893	7.9	8
37	Biomethanation Potential (BMP) Study of Mesophilic Anaerobic Co-Digestion of Abundant Bio-Wastes in Southern Regions of Tunisia. <i>Processes</i> , 2021 , 9, 48	2.9	6
36	Life cycle water consumption for oxyfuel combustion power generation with carbon capture and storage. <i>Journal of Cleaner Production</i> , 2021 , 281, 124419	10.3	6
35	Production and use of biochar from lignin and lignin-rich residues (such as digestate and olive stones) for wastewater treatment. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 158, 105263	6	6
34	Decarbonizing university campuses through the production of biogas from food waste: An LCA analysis. <i>Renewable Energy</i> , 2021 , 176, 565-578	8.1	6
33	Assessment of the Energy Conversion of Whole Oil Fruits With a Pyrolysis and Gas Turbine Process 2010 ,		5
32	Performance Evaluation of the IPRP Technology When Fueled With Biomass Residuals and Waste Feedstocks 2009 ,		5

31	Geometry optimization of a commercial annular RQL combustor of a micro gas turbine for use with natural gas and vegetal oils. <i>Energy Procedia</i> , 2017 , 126, 875-882	2.3	4
30	Biomass feedstock for IGCC systems 2017 , 145-180		4
29	High-value products from ex-situ catalytic pyrolysis of polypropylene waste using iron-based catalysts: the influence of support materials. <i>Waste Management</i> , 2021 , 136, 47-56	8.6	4
28	Efficiency of China's carbon market: A case study of Hubei pilot market. <i>Energy</i> , 2021 , 222, 119946	7.9	4
27	Carbon Footprint as a Tool to Limit Greenhouse Gas Emissions 2016 ,		3
26	LCA Analysis of Biocarbon Pellet Production to Substitute Coke. <i>DEStech Transactions on Environment Energy and Earth Science</i> , 2019 ,	1.2	3
25	Evaluation of machine learning algorithms to predict internal concentration polarization in forward osmosis. <i>Journal of Membrane Science</i> , 2022 , 646, 120257	9.6	3
24	Substitution of coke with pelletized biocarbon in the European and Chinese steel industries: An LCA analysis. <i>Applied Energy</i> , 2021 , 304, 117644	10.7	3
23	Biomass Microturbine Based EFGT and IPRP Cycles: Environmental Impact Analysis and Comparison 2017 ,		2
22	Chemical and physical characterization of food waste to improve its use in anaerobic digestion plants. <i>Energy Nexus</i> , 2022 , 5, 100049		2
21	Bio-methanisation potential (BMP) test for organic waste available in the south region of Tunisia 2020 ,		2
20	Food waste anaerobic digestion in Umbria region (Italy): scenario analysis on the use of digestate through LCA. <i>E3S Web of Conferences</i> , 2020 , 197, 08011	0.5	2
19	Bioenergy recovery from Southern Tunisia's organic wastes: analysis and kinetic modeling study of biomethane production. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	2
18	Research on low-carbon campus based on ecological footprint evaluation and machine learning: A case study in China. <i>Journal of Cleaner Production</i> , 2021 , 323, 129181	10.3	2
17	Influence of the ratio of Fe/Al ₂ O ₃ on waste polypropylene pyrolysis for high value-added products. <i>Journal of Cleaner Production</i> , 2021 , 315, 128240	10.3	2
16	Energy Storage Benefits Assessment Using Multiple-Choice Criteria: The Case of Drini River Cascade, Albania. <i>Energies</i> , 2022 , 15, 4032	3.1	2
15	Rotary Kiln Slow Pyrolysis for Syngas and Char Production From Biomass and Waste: Part 1 □ Working Envelope of the Reactor 2006 , 409		1
14	Development of a tool to optimize economic and environmental feasibility of food waste chains. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	1

13	Technical Economic and Environmental analysis of Chemical Looping versus oxyfuel combustion for NGCC power plant. <i>E3S Web of Conferences</i> , 2021 , 312, 08019	0.5	1
12	Energy Valorization of Bio-glycerol: Carbon Footprint of Co-pyrolysis Process of Crude Glycerol in a CHP Plant. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2019 , 19-46	0.9	1
11	Investigation of the influence of dimensions and material of the pipes on the water hammer effect in microbial fuel cells wastewater treatment plants. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 44, 100990	4.7	1
10	A Quantitative Methodology to Measure Injector Fouling Through Image Analysis. <i>Energy Procedia</i> , 2016 , 101, 693-700	2.3	1
9	Comparison of mini Organic Rankine Cycle plants for waste heat recovery 2019 ,		1
8	Decarbonizing materials sourcing and machining in the gas turbine sector, through a cost-carbon footprint nexus analysis. <i>Journal of Cleaner Production</i> , 2021 , 310, 127392	10.3	1
7	Effect of potassium on catalytic characteristics of ZSM-5 zeolite in fast pyrolysis of biomass-based furan. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 157, 105230	6	1
6	Performance of dual multistage flashing - recycled brine and solar power plant, in the framework of the water-energy nexus. <i>Energy Nexus</i> , 2022 , 5, 100046		0
5	CFD Modelling of the Fuel Reactor of a Chemical Looping Combustion Plant to Be Used with Biomethane. <i>Processes</i> , 2022 , 10, 588	2.9	0
4	Rotary Kiln Slow Pyrolysis for Syngas and Char Production From Biomass and Waste: Part 2 □ Introducing Product Yields in the Energy Balance 2006 , 417		
3	Carbon Nanotubes for Hydrogen Purification and Storage 2020 , 211-238		
2	Energy Balance of Cardoon (<i>Cynara cardunculus</i> L.) Cultivation and Pyrolysis 2016 , 243-258		
1	Substrate Characterization in the Anaerobic Digestion Process. <i>Clean Energy Production Technologies</i> , 2021 , 307-342	0.8	