

Anastasia Zabaniotou

List of Publications by Year in descending order

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100
papers

6,212
citations

81900

39
h-index

69250

77
g-index

101
all docs

101
docs citations

101
times ranked

7236
citing authors

#	ARTICLE	IF	CITATIONS
1	Agricultural residues as precursors for activated carbon production—A review. Renewable and Sustainable Energy Reviews, 2007, 11, 1966-2005.	16.4	1,089
2	Thermal degradation studies and kinetic modeling of cardoon (Cynara cardunculus) pyrolysis using thermogravimetric analysis (TGA). Bioresource Technology, 2011, 102, 6230-6238.	9.6	419
3	Thermochemical conversion of biomass to second generation biofuels through integrated process design—A review. Renewable and Sustainable Energy Reviews, 2011, 15, 366-378.	16.4	317
4	Algae as promising feedstocks for fermentative biohydrogen production according to a biorefinery approach: A comprehensive review. Renewable and Sustainable Energy Reviews, 2015, 44, 20-36.	16.4	230
5	A new concept for enhancing energy recovery from agricultural residues by coupling anaerobic digestion and pyrolysis process. Applied Energy, 2015, 148, 32-38.	10.1	197
6	Toward a functional integration of anaerobic digestion and pyrolysis for a sustainable resource management. Comparison between solid-digestate and its derived pyrochar as soil amendment. Applied Energy, 2016, 169, 652-662.	10.1	146
7	Features of an efficient and environmentally attractive used tyres pyrolysis with energy and material recovery. Renewable and Sustainable Energy Reviews, 2013, 20, 539-558.	16.4	141
8	Enhanced mercury adsorption in activated carbons from biomass materials and waste tires. Fuel Processing Technology, 2007, 88, 749-758.	7.2	138
9	Activated carbon from olive kernels in a two-stage process: Industrial improvement. Bioresource Technology, 2008, 99, 320-326.	9.6	137
10	Contribution to Circular Economy options of mixed agricultural wastes management: Coupling anaerobic digestion with gasification for enhanced energy and material recovery. Journal of Cleaner Production, 2019, 209, 505-514.	9.3	125
11	Food waste valorization advocating Circular Bioeconomy - A critical review of potentialities and perspectives of spent coffee grounds biorefinery. Journal of Cleaner Production, 2019, 211, 1553-1566.	9.3	122
12	Syngas production from olive tree cuttings and olive kernels in a downdraft fixed-bed gasifier. International Journal of Hydrogen Energy, 2008, 33, 1185-1194.	7.1	121
13	Biofuels journey in Europe: Currently the way to low carbon economy sustainability is still a challenge. Journal of Cleaner Production, 2019, 208, 575-588.	9.3	117
14	Review of sustainable biomass pellets production — A study for agricultural residues pellets™ market in Greece. Renewable and Sustainable Energy Reviews, 2012, 16, 1426-1436.	16.4	114
15	Energetic assessment of a combined heat and power integrated biomass gasification—internal combustion engine system by using Aspen Plus®. Fuel Processing Technology, 2012, 95, 37-44.	7.2	108
16	Redesigning a bioenergy sector in EU in the transition to circular waste-based Bioeconomy-A multidisciplinary review. Journal of Cleaner Production, 2018, 177, 197-206.	9.3	105
17	Experimental study of pyrolysis for potential energy, hydrogen and carbon material production from lignocellulosic biomass. International Journal of Hydrogen Energy, 2008, 33, 2433-2444.	7.1	100
18	Low temperature gasification of olive kernels in a 5-kW fluidized bed reactor for H ₂ -rich producer gas. International Journal of Hydrogen Energy, 2008, 33, 6515-6524.	7.1	100

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19	Investigation of agricultural and animal wastes in Greece and their allocation to potential application for energy production. <i>Renewable and Sustainable Energy Reviews</i> , 2007, 11, 1698-1719.	16.4	87
20	From biomass to electricity through integrated gasification/SOFC system-optimization and energy balance. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 337-342.	7.1	87
21	Boosting circular economy and closing the loop in agriculture: Case study of a small-scale pyrolysis“biochar based system integrated in an olive farm in symbiosis with an olive mill. <i>Environmental Development</i> , 2015, 14, 22-36.	4.1	83
22	Cascading microalgae biorefinery: Fast pyrolysis of <i>Dunaliella tertiolecta</i> lipid extracted-residue. <i>Algal Research</i> , 2015, 11, 184-193.	4.6	81
23	The potential roles of bio-economy in the transition to equitable, sustainable, post fossil-carbon societies: Findings from this virtual special issue. <i>Journal of Cleaner Production</i> , 2018, 204, 471-488.	9.3	81
24	Rapeseed residues utilization for energy and 2nd generation biofuels. <i>Fuel</i> , 2008, 87, 1492-1502.	6.4	80
25	Activation of end of life tyres pyrolytic char for enhancing viability of pyrolysis “ Critical review, analysis and recommendations for a hybrid dual system. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 1053-1073.	16.4	79
26	Lignin extraction from Mediterranean agro-wastes: Impact of pretreatment conditions on lignin chemical structure and thermal degradation behavior. <i>Catalysis Today</i> , 2014, 223, 25-34.	4.4	78
27	Mathematical modelling and simulation approaches of agricultural residues air gasification in a bubbling fluidized bed reactor. <i>Chemical Engineering Journal</i> , 2008, 143, 10-31.	12.7	73
28	Cascade approach of red macroalgae <i>Gracilaria gracilis</i> sustainable valorization by extraction of phycobiliproteins and pyrolysis of residue. <i>Bioresource Technology</i> , 2015, 184, 305-313.	9.6	73
29	Modular biomass gasification-based solid oxide fuel cells (SOFC) for sustainable development. <i>Renewable and Sustainable Energy Reviews</i> , 2008, 12, 1251-1276.	16.4	70
30	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
31	Active carbon production from used tire in two-stage procedure: industrial pyrolysis and bench scale activation with H ₂ O“CO ₂ mixture. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 72, 289-297.	5.5	63
32	Process characteristics and products of olive kernel high temperature steam gasification (HTSG). <i>Bioresource Technology</i> , 2009, 100, 2444-2451.	9.6	62
33	Experimental proof of concept for a sustainable End of Life Tyres pyrolysis with energy and porous materials production. <i>Journal of Cleaner Production</i> , 2015, 101, 323-336.	9.3	59
34	Agricultural and forest biomass for food, materials and energy: bio-economy as the cornerstone to cleaner production and more sustainable consumption patterns for accelerating the transition towards equitable, sustainable, post fossil-carbon societies. <i>Journal of Cleaner Production</i> , 2016, 117, 4-6.	9.3	58
35	Development of alternative energy sources for GHG emissions reduction in the textile industry by energy recovery from cotton ginning waste. <i>Journal of Cleaner Production</i> , 2010, 18, 784-790.	9.3	57
36	Effect of biomass leaching on H ₂ 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

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37	A systemic approach to resilience and ecological sustainability during the COVID-19 pandemic: Human, societal, and ecological health as a system-wide emergent property in the Anthropocene. <i>Global Transitions</i> , 2020, 2, 116-126.	4.1	48
38	Pyrochars from bioenergy residue as novel bio-adsorbents for lignocellulosic hydrolysate detoxification. <i>Bioresource Technology</i> , 2015, 187, 379-386.	9.6	43
39	Performance analysis of a small-scale combined heat and power system using agricultural biomass residues: The SMART-CHP demonstration project. <i>Energy</i> , 2014, 64, 367-374.	8.8	42
40	Targeting sustainable bioeconomy: A new development strategy for Southern European countries. The Manifesto of the European Mezzogiorno. <i>Journal of Cleaner Production</i> , 2018, 172, 3931-3941.	9.3	42
41	Continuous ureaâ€“nitrogen recycling from human urine: A step towards creating a human excreta based bioâ€“economy. <i>Journal of Cleaner Production</i> , 2018, 172, 4152-4161.	9.3	35
42	Towards Circular Economy Solutions for The Management of Rice Processing Residues to Bioenergy via Gasification. <i>Sustainability</i> , 2019, 11, 6433.	3.2	34
43	Waste to Sustainable Biohydrogen Production Via Photo-Fermentation and Biophotolysis â€” A Systematic Review. <i>Renewable Energy and Environmental Sustainability</i> , 2021, 6, 45.	1.4	34
44	Co-pyrolysis of biodiesel-derived glycerol with Greek lignite: A laboratory study. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 100, 166-172.	5.5	33
45	Co-valorization of Crude Glycerol Waste Streams with Conventional and/or Renewable Fuels for Power Generation and Industrial Symbiosis Perspectives. <i>Waste and Biomass Valorization</i> , 2016, 7, 135-150.	3.4	33
46	Closed-loop fertility cycle: Realizing sustainability in sanitation and agricultural production through the design and implementation of nutrient recovery systems for human urine. <i>Sustainable Production and Consumption</i> , 2015, 4, 36-46.	11.0	32
47	Effect of microwave pretreatment on pyrolysis of crude glycerolâ€“olive kernel alternative fuels. <i>Energy Conversion and Management</i> , 2016, 110, 287-295.	9.2	32
48	Experimental and feasibility study of spent coffee grounds upscaling via pyrolysis towards proposing an eco-social innovation circular economy solution. <i>Science of the Total Environment</i> , 2020, 718, 137316.	8.0	32
49	Circular Economy Synergistic Opportunities of Decentralized Thermochemical Systems for Bioenergy and Biochar Production Fueled with Agro-industrial Wastes with Environmental Sustainability and Social Acceptance: a Review. <i>Current Sustainable/Renewable Energy Reports</i> , 2018, 5, 150-155.	2.6	29
50	Bioenergy production for CO ₂ -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
51	Indicator-based economic, environmental, and social sustainability assessment of a small gasification bioenergy system fuelled with food processing residues from the Mediterranean agro-industrial sector. <i>Sustainable Energy Technologies and Assessments</i> , 2014, 8, 159-171.	2.7	28
52	Exergy analysis of a small gasification-ICE integrated system for CHP production fueled with Mediterranean agro-food processing wastes: The SMART-CHP. <i>Renewable Energy</i> , 2015, 83, 510-517.	8.9	28
53	Fe catalysis for lignocellulosic biomass conversion to fuels and materials via thermochemical processes. <i>Catalysis Today</i> , 2012, 196, 56-66.	4.4	26
54	Social acceptance of bioenergy in the context of climate change and sustainability â€” A review. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017, 8, 5-9.	5.9	26

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55	Analysis of good practices, barriers and drivers for ELTs pyrolysis industrial application. Waste Management, 2014, 34, 2335-2346.	7.4	25
56	Modelling the intra-particle transport phenomena and chemical reactions of olive kernel fast pyrolysis. Journal of Analytical and Applied Pyrolysis, 2007, 80, 187-194.	5.5	24
57	Evaluation of utilization of corn stalks for energy and carbon material production by using rapid pyrolysis at high temperature. Fuel, 2008, 87, 834-843.	6.4	24
58	Sustainable bioeconomy transitions: Targeting value capture by integrating pyrolysis in a winery waste biorefinery. Journal of Cleaner Production, 2018, 172, 3387-3397.	9.3	24
59	Mediterranean agri-food processing wastes pyrolysis after pre-treatment and recovery of precursor materials: A TGA-based kinetic modeling study. Food Research International, 2015, 73, 44-51.	6.2	23
60	Re-designing a viable ELTs depolymerization in circular economy: Pyrolysis prototype demonstration at TRL 7, with energy optimization and carbonaceous materials production. Journal of Cleaner Production, 2018, 174, 74-86.	9.3	21
61	Spent coffee grounds valorization through pyrolysis for energy and materials production in the concept of circular economy. Materials Today: Proceedings, 2018, 5, 27582-27588.	1.8	21
62	Conceptual vision of bioenergy sector development in Mediterranean regions based on decentralized thermochemical systems. Sustainable Energy Technologies and Assessments, 2017, 23, 33-47.	2.7	21
63	Agro-residues implication in decentralized CHP production through a thermochemical conversion system with SOFC. Sustainable Energy Technologies and Assessments, 2014, 6, 34-50.	2.7	20
64	Environmental remediation in circular economy: End of life tyre magnetic pyrochars for adsorptive removal of pharmaceuticals from aqueous solution. Science of the Total Environment, 2020, 739, 139855.	8.0	19
65	Bioenergy Technology: Gasification with Internal Combustion Engine Application. Energy Procedia, 2013, 42, 745-753.	1.8	17
66	Taking a reflexive TRL3-4 approach to sustainable use of sunflower meal for the transition from a mono-process pathway to a cascade biorefinery in the context of Circular Bioeconomy. Journal of Cleaner Production, 2018, 172, 4119-4129.	9.3	17
67	Freight transport in the context of industrial ecology and sustainability: evaluation of uni- and multi-modality scenarios via life cycle assessment. International Journal of Life Cycle Assessment, 2021, 26, 127-142.	4.7	16
68	Management of Olive Grove Pruning and Solid Waste from Olive Oil Extraction Via Thermochemical Processes. Waste and Biomass Valorization, 2015, 6, 831-842.	3.4	15
69	Towards gender equality in Mediterranean Engineering Schools through networking, collaborative learning, synergies and commitment to SDGs-The RMEI approach. Global Transitions, 2020, 2, 4-15.	4.1	15
70	Investigation study for technological application of alternative methods for the energy exploitation of biomass/agricultural residues in Northern Greece. Thermal Science, 2007, 11, 115-123.	1.1	15
71	Simulating the behavior of a wire mesh reactor for olive kernel fast pyrolysis. Chemical Engineering Journal, 2008, 136, 320-330.	12.7	13
72	From Multidisciplinarity to Transdisciplinarity and from Local to Global Foci: Integrative Approaches to Systemic Resilience Based upon the Value of Life in the Context of Environmental and Gender Vulnerabilities with a Special Focus upon the Brazilian Amazon Biome. Sustainability, 2020, 12, 8407.	3.2	12

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73	Investigating Cynara C. biomass gasification producer gas suitability for CHP, second generation biofuels, and H ₂ production. <i>Industrial Crops and Products</i> , 2014, 61, 308-316.	5.2	11
74	Organizational, societal, knowledge and skills capacity for a low carbon energy transition in a Circular Waste Bioeconomy (CWBE): Observational evidence of the Thessaly region in Greece. <i>Science of the Total Environment</i> , 2022, 813, 151870.	8.0	11
75	Post-consumer textile thermochemical recycling to fuels and biocarbon: A critical review. <i>Science of the Total Environment</i> , 2022, 834, 155387.	8.0	11
76	A thermogravimetric model to predict yield product distribution in pyrolysis of agricultural biomass. <i>Catalysis Today</i> , 2011, 167, 129-134.	4.4	9
77	Inner Processes of Creation towards awareness of own worth for sustainable proposals. <i>Journal of Cleaner Production</i> , 2019, 230, 767-774.	9.3	9
78	Balancing Waste and Nutrient Flows Between Urban Agglomerations and Rural Ecosystems: Biochar for Improving Crop Growth and Urban Air Quality in The Mediterranean Region. <i>Atmosphere</i> , 2020, 11, 539.	2.3	9
79	Simultaneous detoxification and bioethanol fermentation of furans-rich synthetic hydrolysate by digestate-based pyrochar. <i>Journal of Environmental Management</i> , 2016, 183, 1026-1031.	7.8	8
80	New Forms of Social Learning in Mediterranean Higher Engineering Education: Change Lab for Gender Equality Transformation, Methodology, Design Principles. <i>Sustainability</i> , 2020, 12, 6618.	3.2	8
81	Application of pilot technologies for energy utilization of agricultural residues in Northern Greece. <i>Thermal Science</i> , 2007, 11, 125-134.	1.1	8
82	Waste-Based Intermediate Bioenergy Carriers: Syngas Production via Coupling Slow Pyrolysis with Gasification under a Circular Economy Model. <i>Energies</i> , 2021, 14, 7366.	3.1	8
83	Observational Evidence of the Need for Gender-Sensitive Approaches to Wildfires Locally and Globally: Case Study of 2018 Wildfire in Mati, Greece. <i>Sustainability</i> , 2021, 13, 1556.	3.2	7
84	Technological Solutions and Tools for Circular Bioeconomy in Low-Carbon Transition: Simulation Modeling of Rice Husks Gasification for CHP by Aspen PLUS V9 and Feasibility Study by Aspen Process Economic Analyzer. <i>Energies</i> , 2021, 14, 2006.	3.1	7
85	Apparent Pyrolysis Kinetics and Index-Based Assessment of Pretreated Peach Seeds. <i>Processes</i> , 2021, 9, 905.	2.8	6
86	From Theory to Praxis: “Go Sustainable Living” Survey for Exploring Individuals Consciousness Level of Decision-Making and Action-Taking in Daily Life Towards a Green Citizenship. <i>Circular Economy and Sustainability</i> , 2021, , 1-27.	5.5	6
87	The COVID-19 lockdowns brought to light the challenges that women face in Mediterranean universities. <i>Global Transitions</i> , 2021, 3, 119-125.	4.1	6
88	Conceptual Design and Preliminary Hydrodynamic Study of an Agro Biomass Bench Gasification Fluidized Bed Reactor. <i>International Journal of Chemical Reactor Engineering</i> , 2008, 6, .	1.1	5
89	Network assessment: Design of a framework and indicators for monitoring and self-assessment of a customized gender equality plan in the Mediterranean Engineering Education context. <i>Evaluation and Program Planning</i> , 2021, 87, 101932.	1.6	5
90	Exploring Greek Citizens’ Circular Thinking on Food Waste Recycling in a Circular Economy—A Survey-Based Investigation. <i>Energies</i> , 2022, 15, 2584.	3.1	5

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91	Use of solid residue from olive kernel pyrolysis for polymer matrix composite manufacturing: Physical and mechanical characterization. Journal of Applied Polymer Science, 2011, 119, 2167-2173.	2.6	4
92	Peach Seeds Pyrolysis Integrated into a Zero Waste Biorefinery: an Experimental Study. Circular Economy and Sustainability, 2022, 2, 351-382.	5.5	4
93	Digital Technology and Social Innovation Promoting a Green Citizenship: Development of the "Go Sustainable Living" Digital Application. Circular Economy and Sustainability, 0, , 1.	5.5	2
94	Understanding Vulnerabilities of Renewable Energy Systems For Building Their Resilience to Climate Change Hazards: Key Concepts And Assessment Approaches. Renewable Energy and Environmental Sustainability, 2021, 6, 35.	1.4	2
95	A small-scale agricultural biomass CHP system — The SMART project. , 2012, , .		1
96	Academic promotion and leadership: "moving the needle"™ for the enhancement of gender equality in Tunisian higher education institutional members of the RMEI network following the TARGET framework. Open Research Europe, 0, 1, 14.	2.0	0
97	Academic promotion and leadership: "moving the needle"™ for the enhancement of gender equality in Tunisian higher education institutional members of the RMEI network following the TARGET framework. Open Research Europe, 0, 1, 14.	2.0	0
98	Soft female leadership (SFL) framework for driving the gender equality change in engineering education: learning outcomes of leader and leadership development. Open Research Europe, 0, 1, 63.	2.0	0
99	Learning outcomes of leader and leadership development: Method of Soft and Female leadership (SFL) empirical framework for driving the gender equality change in Mediterranean Engineering Education. Open Research Europe, 0, 1, 63.	2.0	0
100	Community of Practice for Gender Equality in the Network of Mediterranean Engineering Schools. , 2022, , 91-111.		0