

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.

128 papers	2,438 citations	27 h-index	47 g-index
148 ext. papers	2,991 ext. citations	4.1 avg, IF	5.86 L-index

#	Paper	IF	Citations
128	Biomass combustion systems: A review on the physical and chemical properties of the ashes. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 235-242	16.2	170
127	A review on torrefied biomass pellets as a sustainable alternative to coal in power generation. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 40, 153-160	16.2	165
126	Short-term wind power forecasting using adaptive neuro-fuzzy inference system combined with evolutionary particle swarm optimization, wavelet transform and mutual information. <i>Renewable Energy</i> , 2015 , 75, 301-307	8.1	143
125	Photovoltaic and wind energy systems monitoring and building/home energy management using ZigBee devices within a smart grid. <i>Energy</i> , 2013 , 49, 306-315	7.9	131
124	Mixed biomass pellets for thermal energy production: A review of combustion models. <i>Applied Energy</i> , 2014 , 127, 135-140	10.7	100
123	The integration of the standards systems of quality management, environmental management and occupational health and safety management. <i>International Journal of Production Research</i> , 2002 , 40, 3857-3866	7.8	96
122	Future Perspectives of Biomass Torrefaction: Review of the Current State-Of-The-Art and Research Development. <i>Sustainability</i> , 2018 , 10, 2323	3.6	89
121	Smart Home Communication Technologies and Applications: Wireless Protocol Assessment for Home Area Network Resources. <i>Energies</i> , 2015 , 8, 7279-7311	3.1	83
120	A comprehensive review of industrial symbiosis. <i>Journal of Cleaner Production</i> , 2020 , 247, 119113	10.3	81
119	Proposal of a Sustainability Index for the Automotive Industry. <i>Sustainability</i> , 2015 , 7, 2113-2144	3.6	67
118	Effect of Loads and Other Key Factors on Oil-Transformer Ageing: Sustainability Benefits and Challenges. <i>Energies</i> , 2015 , 8, 12147-12186	3.1	60
117	Model Predictive Control Home Energy Management and Optimization Strategy with Demand Response. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 408	2.6	57
116	Economic and environmental benefits of using textile waste for the production of thermal energy. <i>Journal of Cleaner Production</i> , 2018 , 171, 1353-1360	10.3	54
115	Proposal of a Sustainable Circular Index for Manufacturing Companies. <i>Resources</i> , 2017 , 6, 63	3.7	53
114	The Potential of Industrial Symbiosis: Case Analysis and Main Drivers and Barriers to Its Implementation. <i>Sustainability</i> , 2019 , 11, 7095	3.6	51
113	Energy scenarios: Toward a new energy paradigm. <i>Futures</i> , 2008 , 40, 1-16	3.6	50
112	A probabilistic approach to solve the economic dispatch problem with intermittent renewable energy sources. <i>Energy</i> , 2015 , 82, 949-959	7.9	46

111	A new scenario generation-based method to solve the unit commitment problem with high penetration of renewable energies. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 64, 1063-1072	5.1	45
110	Modelling and sizing of NaS (sodium sulfur) battery energy storage system for extending wind power performance in Crete Island. <i>Energy</i> , 2015 , 90, 1606-1617	7.9	44
109	Integrated total quality management: Beyond zero defects theory and towards innovation. <i>Total Quality Management and Business Excellence</i> , 2011 , 22, 891-910	2.7	44
108	Wood pellets as a sustainable energy alternative in Portugal. <i>Renewable Energy</i> , 2016 , 85, 1011-1016	8.1	43
107	Biomass in the generation of electricity in Portugal: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 71, 373-378	16.2	42
106	Open Innovation 4.0 as an Enhancer of Sustainable Innovation Ecosystems. <i>Sustainability</i> , 2020 , 12, 8112	3.6	40
105	Electricity prices forecasting by a hybrid evolutionary-adaptive methodology. <i>Energy Conversion and Management</i> , 2014 , 80, 363-373	10.6	38
104	Smart electric vehicle charging scheduler for overloading prevention of an industry client power distribution transformer. <i>Applied Energy</i> , 2016 , 178, 29-42	10.7	34
103	A proposed framework to assess upstream supply chain sustainability. <i>Environment, Development and Sustainability</i> , 2017 , 19, 2253-2273	4.5	29
102	A Practical Study of the Application of SMED to Electron-beam Machining in Automotive Industry. <i>Procedia Manufacturing</i> , 2018 , 17, 647-654	1.5	28
101	Analysis of the use of biomass as an energy alternative for the Portuguese textile dyeing industry. <i>Energy</i> , 2015 , 84, 503-508	7.9	26
100	Evaluation of the Physical, Chemical and Thermal Properties of Portuguese Maritime Pine Biomass. <i>Sustainability</i> , 2018 , 10, 2877	3.6	26
99	Long-Term Decision on Wind Investment with Considering Different Load Ranges of Power Plant for Sustainable Electricity Energy Market. <i>Sustainability</i> , 2018 , 10, 3811	3.6	24
98	Energy recovery from cork industrial waste: Production and characterisation of cork pellets. <i>Fuel</i> , 2013 , 113, 24-30	7.1	23
97	New control strategy for the weekly scheduling of insular power systems with a battery energy storage system. <i>Applied Energy</i> , 2015 , 154, 459-470	10.7	21
96	Consumption dynamics of primary-energy sources: The century of alternative energies. <i>Applied Energy</i> , 2007 , 84, 763-770	10.7	21
95	Biomass Torrefaction as a Key Driver for the Sustainable Development and Decarbonization of Energy Production. <i>Sustainability</i> , 2020 , 12, 922	3.6	20
94	Proactive reliability maintenance: a case study concerning maintenance service costs. <i>Journal of Quality in Maintenance Engineering</i> , 2008 , 14, 343-355	1.1	19

93	Evaluation of the utilization of woodchips as fuel for industrial boilers. <i>Journal of Cleaner Production</i> , 2019 , 223, 270-277	10.3	15
92	A heuristic methodology to economic dispatch problem incorporating renewable power forecasting error and system reliability. <i>Renewable Energy</i> , 2016 , 87, 731-743	8.1	15
91	Digital Transformation and Knowledge Management in the Public Sector. <i>Sustainability</i> , 2020 , 12, 5824	3.6	15
90	The Influence of Collaboration Initiatives on the Sustainability of the Cashew Supply Chain. <i>Sustainability</i> , 2018 , 10, 2075	3.6	14
89	Current Status, Emerging Challenges, and Future Prospects of Industrial Symbiosis in Portugal. <i>Sustainability</i> , 2019 , 11, 5497	3.6	13
88	ZigBee standard in the creation of wireless networks for advanced metering infrastructures 2012 ,		13
87	Evolutionary algorithms on reducing energy consumption in buildings: An approach to provide smart and efficiency choices, considering the rebound effect. <i>Computers and Industrial Engineering</i> , 2018 , 126, 729-755	6.4	13
86	Improvement of the Statistical Process Control Certainty in an Automotive Manufacturing Unit. <i>Procedia Manufacturing</i> , 2018 , 17, 729-736	1.5	12
85	Biomass waste co-firing with coal applied to the Sines Thermal Power Plant in Portugal. <i>Fuel</i> , 2014 , 132, 153-157	7.1	10
84	A fast method for the unit scheduling problem with significant renewable power generation. <i>Energy Conversion and Management</i> , 2015 , 94, 178-189	10.6	10
83	New blade profile for Darrieus wind turbines capable to self-start 2011 ,		10
82	Technological Innovation in Biomass Energy for the Sustainable Growth of Textile Industry. <i>Sustainability</i> , 2019 , 11, 528	3.6	9
81	A Structural Literature Review of the Single Minute Exchange of Die: The Latest Trends. <i>Procedia Manufacturing</i> , 2018 , 17, 783-790	1.5	9
80	Quality Control in the Context of Industry 4.0. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019 , 177-187	0.2	8
79	The EHU-OEF: An OpenFlow-based Layer-2 experimental facility. <i>Computer Networks</i> , 2014 , 63, 101-127	5.4	8
78	Analytical Evaluation of a HIP Registration Enhancement for NEMO Scenarios. <i>IEEE Communications Letters</i> , 2011 , 15, 587-589	3.8	8
77	Sustainable Energy System of El Hierro Island. <i>Renewable Energy and Power Quality Journal</i> , 46-50		8
76	Energy Recovery from Invasive Species: Creation of Value Chains to Promote Control and Eradication. <i>Recycling</i> , 2021 , 6, 21	3.2	8

75	Implementation of Hazard Analysis Critical Control Points (HACCP) in a SME: Case Study of a Bakery. <i>Polish Journal of Food and Nutrition Sciences</i> , 2012 , 62, 215-227	3.1	7
74	Evaluation of the Potential of Agricultural Waste Recovery: Energy Densification as a Factor for Residual Biomass Logistics Optimization. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 20	2.6	7
73	HACCP and OHS: Can each one help improve the other in the catering sector?. <i>Food Control</i> , 2013 , 30, 240-250	6.2	6
72	A review of short-term hydro scheduling tools 2013 ,		6
71	Self-start performance evaluation in Darrieus-type vertical axis wind turbines: Methodology and computational tool applied to symmetrical airfoils. <i>Renewable Energy and Power Quality Journal</i> , 250-255		6
70	A Decision Support Approach to Provide Sustainable Solutions to the Consumer, by Using Electrical Appliances. <i>Sustainability</i> , 2019 , 11, 1143	3.6	5
69	Energy Efficiency in Buildings by Using Evolutionary Algorithms: An Approach to Provide Efficiency Choices to the Consumer, Considering the Rebound Effect. <i>IFIP Advances in Information and Communication Technology</i> , 2018 , 120-129	0.5	5
68	ZigBee wireless area network for home automation and energy management: Field trials and installation approaches 2012 ,		5
67	Innovation in the organisation of management systems in Portuguese SMEs. <i>International Journal of Entrepreneurship and Innovation Management</i> , 2010 , 11, 324	0.4	5
66	Socio-Economic Development and Primary Energy Sources Substitution Towards Decarbonization. <i>Low Carbon Economy</i> , 2011 , 02, 49-53	0.9	5
65	Production of Biochar from Vine Pruning: Waste Recovery in the Wine Industry. <i>Agriculture (Switzerland)</i> , 2021 , 11, 489	3	5
64	2016 ,		5
63	Short-Term trading for a photovoltaic power producer in electricity markets 2015 ,		4
62	Optimal generic energy storage system offering in day-ahead electricity markets 2015 ,		4
61	Including forecasting error of renewable generation on the optimal load dispatch 2015 ,		4
60	An Alternative Test of Normality for Improving SPC in a Portuguese Automotive SME. <i>Lecture Notes in Management and Industrial Engineering</i> , 2018 , 277-285	0.3	4
59	Hybrid evolutionary-adaptive approach to predict electricity prices and wind power in the short-term 2014 ,		4
58	Integration of the information systems in the production process: a case study. <i>Production Planning and Control</i> , 2014 , 25, 1386-1399	4.3	4

57	Viability of Creating an Offshore Wind Energy Cluster: A Case Study. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 308	2.6	4
56	A New Approach to Provide Sustainable Solutions for Residential Sector. <i>IFIP Advances in Information and Communication Technology</i> , 2019 , 329-342	0.5	4
55	Environmental, Economic, and Social Impact of Industrial Symbiosis: Methods and Indicators Review. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019 , 157-165	0.2	3
54	Smart and energy-efficient home implementation: Wireless communication technologies role 2015 ,		3
53	A Logistics Management System for a Biomass-to-Energy Production Plant Storage Park. <i>Energies</i> , 2020 , 13, 5512	3.1	3
52	Overloading analysis of an industrial client distribution transformer in a Portuguese Island 2016 ,		3
51	Industrial Symbiosis Initiatives in United States of America and Canada: Current Status and Challenges 2019 ,		3
50	A review of short-term wind power forecasting approaches 2013 ,		3
49	Economic evaluation and experimental setup of biomass energy as sustainable alternative for textile industry 2013 ,		3
48	Hybrid neuro-fuzzy evolutionary approach for short-term wind power forecasting 2012 ,		3
47	A Learning Factory for Remanufacturing: A New Configuration at Valladolid Lean School. <i>Lecture Notes in Networks and Systems</i> , 2020 , 1-10	0.5	3
46	Support of Advanced Technologies in Supply Chain Processes and Sustainability Impact. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3026	2.6	3
45	Energy Recovery of Agricultural Residues: Incorporation of Vine Pruning in the Production of Biomass Pellets with ENplus [®] Certification. <i>Recycling</i> , 2021 , 6, 28	3.2	3
44	2018 ,		2
43	Innovative experimental low cost electronics operated instrumentation for wearable health systems with high resolution physiological measurements 2016 ,		2
42	2016 ,		2
41	Improvement of the statistical process control through an enhanced test of normality 2018 ,		2
40	An approach to provide efficient choices to a household consumer 2019 ,		2

39	Application of biomass for the production of energy in the Portuguese textile industry 2013 ,		2
38	Intelligent approach for forecasting in power engineering systems 2012 ,		2
37	Simulation and experimental results for a photovoltaic system formed by polycrystalline solar modules 2012 ,		2
36	Zigbee devices for distributed generation management: field tests and installation approaches 2012 ,		2
35	Management and operations maintenance for a water treatment and supply company. <i>International Journal of Industrial and Systems Engineering</i> , 2017 , 25, 360	0.4	2
34	Vertical Axis Wind Turbine Performance Prediction: An Approach to the Double Multiple Streamtube Model. <i>Renewable Energy and Power Quality Journal</i> , 633-636		2
33	Torrefied Biomass Pellets: An alternative fuel for coal power plants 2016 ,		2
32	Overcoming Barriers to the Implementation of Cleaner Production in Small Enterprises in the Mechanics Industry: Exploring Economic Gains and Contributions for Sustainable Development Goals. <i>Sustainability</i> , 2022 , 14, 2944	3.6	2
31	Improving the Availability of a Production Line Through TPM in an Automotive Gearbox Industrial Unit. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019 , 149-156	0.2	1
30	Continuous Improvement in an Industrial Unit of the Wood Industry Through Kanban. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019 , 167-176	0.2	1
29	Evaluating the Impact of 5S Implementation on Occupational Safety in an Automotive Industrial Unit. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019 , 139-148	0.2	1
28	Comparison of battery models for energy storage applications on insular grids 2015 ,		1
27	Carbon Dioxide Recovery through Industrial and Urban Symbiosis 2020 ,		1
26	EV charging scheduler for overloading prevention of a distribution transformer supplying a factory 2016 ,		1
25	Characterization of biomass woodchips as fuel for industrial boilers 2016 ,		1
24	IT Applications In Logistics And Their Influence On The Competitiveness Of Companies/Supply Chains. <i>Analele Stiintifice Ale Universitatii iAl I Cuzai Din Iasi Sectiunea IIIc, Stiinte Economice (1976)</i> , 2015 , 62, 121-146		1
23	An innovative technique for energy storage system management based on vanadium redox batteries 2015 ,		1
22	Probability theory-based economic dispatch model for insular power systems 2014 ,		1

21	Simulation and Experimental Results for a Photovoltaic System Formed by Monocrystalline Solar Modules. <i>International Federation for Information Processing</i> , 2012 , 329-336		1
20	Influence of Large Renewable Energy Integration on Insular Grid Code Compliance. <i>IFIP Advances in Information and Communication Technology</i> , 2015 , 296-308	0.5	1
19	Hybrid Evolutionary Neuro-fuzzy Computational Tool to Forecast Wind Power and Electricity Prices. <i>International Federation for Information Processing</i> , 2012 , 321-328		1
18	Pinus Pinaster and Eucalyptus Globulus Energetic Properties and Ash Characterization 2018 ,		1
17	Coal to Biomass Conversion as a Path to Sustainability: A Hypothetical Scenario at Pego Power Plant (Abrantes, Portugal). <i>Resources</i> , 2021 , 10, 84	3.7	1
16	Residual Biomass: A Comprehensive Review on the Importance, Uses and Potential in a Circular Bioeconomy Approach. <i>Resources</i> , 2022 , 11, 35	3.7	1
15	Development of a Low-Cost Experimental Procedure for the Production of Laboratory Samples of Torrefied Biomass. <i>Clean Technologies</i> , 2020 , 2, 406-421	3.4	0
14	A Practical Study of the Application of Value Stream Mapping to a Pre-series Production Area. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019 , 117-125	0.2	0
13	Statistical Process Control Accuracy Estimation of a Stamping Process in Automotive Industry. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 48-60	0.4	0
12	Order fulfilment process improvement in a ceramic industry. <i>Procedia Manufacturing</i> , 2019 , 38, 1436-1443	3.5	0
11	Getting efficient choices in buildings by using Genetic Algorithms: Assessment & validation. <i>Open Engineering</i> , 2019 , 9, 229-245	1.7	0
10	Improvement of the Logistics Flows in the Receiving Process of a Warehouse. <i>Logistics</i> , 2022 , 6, 22	3.5	0
9	Climate Change Mitigation Through the Application of LCA Methodology on the Environmental Performance of Two Vehicles with Distinct Engines. <i>Contributions To Economics</i> , 2019 , 245-260	0.4	
8	Implementation of a Software Program for the Optimization of an Oil Pump Assembly Line. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019 , 127-137	0.2	
7	Transitions between Centralization and Metapolization: From City Development Strategy (CDS) to Peri-Urban Development Strategy (PDS). <i>Sustainability</i> , 2020 , 12, 10653	3.6	
6	Internal Logistics System Selection with Total Cost of Ownership Analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 212, 012024	0.4	
5	The Challenges of Industrial Engineer Management Skills in Industry 4.0. <i>Advances in Higher Education and Professional Development Book Series</i> , 2022 , 225-249	0.2	
4	A Heuristic Approach for Economic Dispatch Problem in Insular Power Systems. <i>IFIP Advances in Information and Communication Technology</i> , 2015 , 317-324	0.5	

- 3 Job shop production system to a manufacturing cellular system: an action research study. *International Journal of Industrial and Systems Engineering*, **2019**, 32, 267 0.4
- 2 An Industry 4.0 Conceptual Model Proposal for Cable Harness Testing Equipment Industry. *Procedia Computer Science*, **2022**, 200, 1392-1401 1.6
- 1 Reducing Rural Fire Risk through the Development of a Sustainable Supply Chain Model for Residual Agroforestry Biomass Supported in a Web Platform: A Case Study in Portugal Central Region with the Project BioAgroFloRes. *Fire*, **2022**, 5, 61 2.4