

# Joo Matias

## List of Publications by Year in Descending Order

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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	The Challenges of Industrial Engineer Management Skills in Industry 4.0. <i>Advances in Higher Education and Professional Development Book Series</i> , <b>2022</b> , 225-249	0.2	
127	An Industry 4.0 Conceptual Model Proposal for Cable Harness Testing Equipment Industry. <i>Procedia Computer Science</i> , <b>2022</b> , 200, 1392-1401	1.6	
126	Residual Biomass: A Comprehensive Review on the Importance, Uses and Potential in a Circular Bioeconomy Approach. <i>Resources</i> , <b>2022</b> , 11, 35	3.7	1
125	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> , <b>2022</b> , 14, 2944	3.6	2
124	Improvement of the Logistics Flows in the Receiving Process of a Warehouse. <i>Logistics</i> , <b>2022</b> , 6, 22	3.5	0
123	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. <i>Fire</i> , <b>2022</b> , 5, 61	2.4	
122	Evaluation of the Potential of Agricultural Waste Recovery: Energy Densification as a Factor for Residual Biomass Logistics Optimization. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 20	2.6	7
121	Viability of Creating an Offshore Wind Energy Cluster: A Case Study. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 308	2.6	4
120	Support of Advanced Technologies in Supply Chain Processes and Sustainability Impact. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3026	2.6	3
119	Energy Recovery from Invasive Species: Creation of Value Chains to Promote Control and Eradication. <i>Recycling</i> , <b>2021</b> , 6, 21	3.2	8
118	Energy Recovery of Agricultural Residues: Incorporation of Vine Pruning in the Production of Biomass Pellets with ENplus <sup>®</sup> Certification. <i>Recycling</i> , <b>2021</b> , 6, 28	3.2	3
117	Production of Biochar from Vine Pruning: Waste Recovery in the Wine Industry. <i>Agriculture (Switzerland)</i> , <b>2021</b> , 11, 489	3	5
116	Coal to Biomass Conversion as a Path to Sustainability: A Hypothetical Scenario at Pego Power Plant (Abrantes, Portugal). <i>Resources</i> , <b>2021</b> , 10, 84	3.7	1
115	Transitions between Centralization and Metapolization: From City Development Strategy (CDS) to Peri-Urban Development Strategy (PDS). <i>Sustainability</i> , <b>2020</b> , 12, 10653	3.6	
114	Development of a Low-Cost Experimental Procedure for the Production of Laboratory Samples of Torrefied Biomass. <i>Clean Technologies</i> , <b>2020</b> , 2, 406-421	3.4	0
113	A Logistics Management System for a Biomass-to-Energy Production Plant Storage Park. <i>Energies</i> , <b>2020</b> , 13, 5512	3.1	3
112	Carbon Dioxide Recovery through Industrial and Urban Symbiosis <b>2020</b> ,		1

111	Statistical Process Control Accuracy Estimation of a Stamping Process in Automotive Industry. <i>Lecture Notes in Mechanical Engineering</i> , <b>2020</b> , 48-60	0.4	0
110	Biomass Torrefaction as a Key Driver for the Sustainable Development and Decarbonization of Energy Production. <i>Sustainability</i> , <b>2020</b> , 12, 922	3.6	20
109	A Learning Factory for Remanufacturing: A New Configuration at Valladolid Lean School. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 1-10	0.5	3
108	A comprehensive review of industrial symbiosis. <i>Journal of Cleaner Production</i> , <b>2020</b> , 247, 119113	10.3	81
107	Open Innovation 4.0 as an Enhancer of Sustainable Innovation Ecosystems. <i>Sustainability</i> , <b>2020</b> , 12, 81123.6	40	
106	Digital Transformation and Knowledge Management in the Public Sector. <i>Sustainability</i> , <b>2020</b> , 12, 5824	3.6	15
105	Technological Innovation in Biomass Energy for the Sustainable Growth of Textile Industry. <i>Sustainability</i> , <b>2019</b> , 11, 528	3.6	9
104	A Decision Support Approach to Provide Sustainable Solutions to the Consumer, by Using Electrical Appliances. <i>Sustainability</i> , <b>2019</b> , 11, 1143	3.6	5
103	Climate Change Mitigation Through the Application of LCA Methodology on the Environmental Performance of Two Vehicles with Distinct Engines. <i>Contributions To Economics</i> , <b>2019</b> , 245-260	0.4	
102	Implementation of a Software Program for the Optimization of an Oil Pump Assembly Line. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2019</b> , 127-137	0.2	
101	Improving the Availability of a Production Line Through TPM in an Automotive Gearbox Industrial Unit. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2019</b> , 149-156	0.2	1
100	Environmental, Economic, and Social Impact of Industrial Symbiosis: Methods and Indicators Review. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2019</b> , 157-165	0.2	3
99	Continuous Improvement in an Industrial Unit of the Wood Industry Through Kanban. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2019</b> , 167-176	0.2	1
98	Evaluating the Impact of 5S Implementation on Occupational Safety in an Automotive Industrial Unit. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2019</b> , 139-148	0.2	1
97	Quality Control in the Context of Industry 4.0. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2019</b> , 177-187	0.2	8
96	Evaluation of the utilization of woodchips as fuel for industrial boilers. <i>Journal of Cleaner Production</i> , <b>2019</b> , 223, 270-277	10.3	15
95	A Practical Study of the Application of Value Stream Mapping to a Pre-series Production Area. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2019</b> , 117-125	0.2	0
94	Industrial Symbiosis Initiatives in United States of America and Canada: Current Status and Challenges <b>2019</b> ,		3

93	Current Status, Emerging Challenges, and Future Prospects of Industrial Symbiosis in Portugal. <i>Sustainability</i> , <b>2019</b> , 11, 5497	3.6	13
92	An approach to provide efficient choices to a household consumer <b>2019</b> ,		2
91	A New Approach to Provide Sustainable Solutions for Residential Sector. <i>IFIP Advances in Information and Communication Technology</i> , <b>2019</b> , 329-342	0.5	4
90	Job shop production system to a manufacturing cellular system: an action research study. <i>International Journal of Industrial and Systems Engineering</i> , <b>2019</b> , 32, 267	0.4	
89	The Potential of Industrial Symbiosis: Case Analysis and Main Drivers and Barriers to Its Implementation. <i>Sustainability</i> , <b>2019</b> , 11, 7095	3.6	51
88	Order fulfilment process improvement in a ceramic industry. <i>Procedia Manufacturing</i> , <b>2019</b> , 38, 1436-1443	5	0
87	Getting efficient choices in buildings by using Genetic Algorithms: Assessment & validation. <i>Open Engineering</i> , <b>2019</b> , 9, 229-245	1.7	0
86	<b>2018</b> ,		2
85	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> , <b>2018</b> , 120-129	0.5	5
84	Economic and environmental benefits of using textile waste for the production of thermal energy. <i>Journal of Cleaner Production</i> , <b>2018</b> , 171, 1353-1360	10.3	54
83	An Alternative Test of Normality for Improving SPC in a Portuguese Automotive SME. <i>Lecture Notes in Management and Industrial Engineering</i> , <b>2018</b> , 277-285	0.3	4
82	Model Predictive Control Home Energy Management and Optimization Strategy with Demand Response. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 408	2.6	57
81	The Influence of Collaboration Initiatives on the Sustainability of the Cashew Supply Chain. <i>Sustainability</i> , <b>2018</b> , 10, 2075	3.6	14
80	Improvement of the statistical process control through an enhanced test of normality <b>2018</b> ,		2
79	Future Perspectives of Biomass Torrefaction: Review of the Current State-Of-The-Art and Research Development. <i>Sustainability</i> , <b>2018</b> , 10, 2323	3.6	89
78	A Practical Study of the Application of SMED to Electron-beam Machining in Automotive Industry. <i>Procedia Manufacturing</i> , <b>2018</b> , 17, 647-654	1.5	28
77	Improvement of the Statistical Process Control Certainty in an Automotive Manufacturing Unit. <i>Procedia Manufacturing</i> , <b>2018</b> , 17, 729-736	1.5	12
76	A Structural Literature Review of the Single Minute Exchange of Die: The Latest Trends. <i>Procedia Manufacturing</i> , <b>2018</b> , 17, 783-790	1.5	9

75	Pinus Pinaster and Eucalyptus Globulus Energetic Properties and Ash Characterization <b>2018</b> ,		1
74	Long-Term Decision on Wind Investment with Considering Different Load Ranges of Power Plant for Sustainable Electricity Energy Market. <i>Sustainability</i> , <b>2018</b> , 10, 3811	3.6	24
73	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> , <b>2018</b> , 126, 729-755	6.4	13
72	Evaluation of the Physical, Chemical and Thermal Properties of Portuguese Maritime Pine Biomass. <i>Sustainability</i> , <b>2018</b> , 10, 2877	3.6	26
71	Biomass in the generation of electricity in Portugal: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 71, 373-378	16.2	42
70	A proposed framework to assess upstream supply chain sustainability. <i>Environment, Development and Sustainability</i> , <b>2017</b> , 19, 2253-2273	4.5	29
69	Internal Logistics System Selection with Total Cost of Ownership Analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 212, 012024	0.4	
68	Proposal of a Sustainable Circular Index for Manufacturing Companies. <i>Resources</i> , <b>2017</b> , 6, 63	3.7	53
67	Management and operations maintenance for a water treatment and supply company. <i>International Journal of Industrial and Systems Engineering</i> , <b>2017</b> , 25, 360	0.4	2
66	Biomass combustion systems: A review on the physical and chemical properties of the ashes. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 53, 235-242	16.2	170
65	Wood pellets as a sustainable energy alternative in Portugal. <i>Renewable Energy</i> , <b>2016</b> , 85, 1011-1016	8.1	43
64	Innovative experimental low cost electronics operated instrumentation for wearable health systems with high resolution physiological measurements <b>2016</b> ,		2
63	Overloading analysis of an industrial client distribution transformer in a Portuguese Island <b>2016</b> ,		3
62	<b>2016</b> ,		2
61	EV charging scheduler for overloading prevention of a distribution transformer supplying a factory <b>2016</b> ,		1
60	Characterization of biomass woodchips as fuel for industrial boilers <b>2016</b> ,		1
59	Smart electric vehicle charging scheduler for overloading prevention of an industry client power distribution transformer. <i>Applied Energy</i> , <b>2016</b> , 178, 29-42	10.7	34
58	A heuristic methodology to economic dispatch problem incorporating renewable power forecasting error and system reliability. <i>Renewable Energy</i> , <b>2016</b> , 87, 731-743	8.1	15

57	2016,		5
56	Torrefied Biomass Pellets: An alternative fuel for coal power plants 2016,		2
55	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
54	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
53	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
52	A probabilistic approach to solve the economic dispatch problem with intermittent renewable energy sources. <i>Energy</i> , 2015, 82, 949-959	7.9	46
51	Smart and energy-efficient home implementation: Wireless communication technologies role 2015,		3
50	Short-Term trading for a photovoltaic power producer in electricity markets 2015,		4
49	Optimal generic energy storage system offering in day-ahead electricity markets 2015,		4
48	Comparison of battery models for energy storage applications on insular grids 2015,		1
47	Including forecasting error of renewable generation on the optimal load dispatch 2015,		4
46	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
45	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
44	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
43	Smart Home Communication Technologies and Applications: Wireless Protocol Assessment for Home Area Network Resources. <i>Energies</i> , 2015, 8, 7279-7311	3.1	83
42	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
41	Proposal of a Sustainability Index for the Automotive Industry. <i>Sustainability</i> , 2015, 7, 2113-2144	3.6	67
40	An innovative technique for energy storage system management based on vanadium redox batteries 2015,		1

39	A fast method for the unit scheduling problem with significant renewable power generation. <i>Energy Conversion and Management</i> , <b>2015</b> , 94, 178-189	10.6	10
38	Influence of Large Renewable Energy Integration on Insular Grid Code Compliance. <i>IFIP Advances in Information and Communication Technology</i> , <b>2015</b> , 296-308	0.5	1
37	A Heuristic Approach for Economic Dispatch Problem in Insular Power Systems. <i>IFIP Advances in Information and Communication Technology</i> , <b>2015</b> , 317-324	0.5	
36	A review on torrefied biomass pellets as a sustainable alternative to coal in power generation. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 40, 153-160	16.2	165
35	The EHU-OEF: An OpenFlow-based Layer-2 experimental facility. <i>Computer Networks</i> , <b>2014</b> , 63, 101-127	5.4	8
34	Electricity prices forecasting by a hybrid evolutionary-adaptive methodology. <i>Energy Conversion and Management</i> , <b>2014</b> , 80, 363-373	10.6	38
33	Mixed biomass pellets for thermal energy production: A review of combustion models. <i>Applied Energy</i> , <b>2014</b> , 127, 135-140	10.7	100
32	Biomass waste co-firing with coal applied to the Sines Thermal Power Plant in Portugal. <i>Fuel</i> , <b>2014</b> , 132, 153-157	7.1	10
31	Hybrid evolutionary-adaptive approach to predict electricity prices and wind power in the short-term <b>2014</b> ,		4
30	Integration of the information systems in the production process: a case study. <i>Production Planning and Control</i> , <b>2014</b> , 25, 1386-1399	4.3	4
29	Probability theory-based economic dispatch model for insular power systems <b>2014</b> ,		1
28	Energy recovery from cork industrial waste: Production and characterisation of cork pellets. <i>Fuel</i> , <b>2013</b> , 113, 24-30	7.1	23
27	Application of biomass for the production of energy in the Portuguese textile industry <b>2013</b> ,		2
26	A review of short-term wind power forecasting approaches <b>2013</b> ,		3
25	Economic evaluation and experimental setup of biomass energy as sustainable alternative for textile industry <b>2013</b> ,		3
24	HACCP and OHS: Can each one help improve the other in the catering sector?. <i>Food Control</i> , <b>2013</b> , 30, 240-250	6.2	6
23	Photovoltaic and wind energy systems monitoring and building/home energy management using ZigBee devices within a smart grid. <i>Energy</i> , <b>2013</b> , 49, 306-315	7.9	131
22	A review of short-term hydro scheduling tools <b>2013</b> ,		6

21	Hybrid neuro-fuzzy evolutionary approach for short-term wind power forecasting <b>2012</b> ,		3
20	Intelligent approach for forecasting in power engineering systems <b>2012</b> ,		2
19	ZigBee standard in the creation of wireless networks for advanced metering infrastructures <b>2012</b> ,		13
18	Simulation and Experimental Results for a Photovoltaic System Formed by Monocrystalline Solar Modules. <i>International Federation for Information Processing</i> , <b>2012</b> , 329-336		1
17	Simulation and experimental results for a photovoltaic system formed by polycrystalline solar modules <b>2012</b> ,		2
16	ZigBee wireless area network for home automation and energy management: Field trials and installation approaches <b>2012</b> ,		5
15	Zigbee devices for distributed generation management: field tests and installation approaches <b>2012</b> ,		2
14	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> , <b>2012</b> , 62, 215-227	3.1	7
13	Hybrid Evolutionary Neuro-fuzzy Computational Tool to Forecast Wind Power and Electricity Prices. <i>International Federation for Information Processing</i> , <b>2012</b> , 321-328		1
12	Analytical Evaluation of a HIP Registration Enhancement for NEMO Scenarios. <i>IEEE Communications Letters</i> , <b>2011</b> , 15, 587-589	3.8	8
11	Integrated total quality management: Beyond zero defects theory and towards innovation. <i>Total Quality Management and Business Excellence</i> , <b>2011</b> , 22, 891-910	2.7	44
10	New blade profile for Darrieus wind turbines capable to self-start <b>2011</b> ,		10
9	Socio-Economic Development and Primary Energy Sources Substitution Towards Decarbonization. <i>Low Carbon Economy</i> , <b>2011</b> , 02, 49-53	0.9	5
8	Innovation in the organisation of management systems in Portuguese SMEs. <i>International Journal of Entrepreneurship and Innovation Management</i> , <b>2010</b> , 11, 324	0.4	5
7	Energy scenarios: Toward a new energy paradigm. <i>Futures</i> , <b>2008</b> , 40, 1-16	3.6	50
6	Proactive reliability maintenance: a case study concerning maintenance service costs. <i>Journal of Quality in Maintenance Engineering</i> , <b>2008</b> , 14, 343-355	1.1	19
5	Consumption dynamics of primary-energy sources: The century of alternative energies. <i>Applied Energy</i> , <b>2007</b> , 84, 763-770	10.7	21
4	The integration of the standards systems of quality management, environmental management and occupational health and safety management. <i>International Journal of Production Research</i> , <b>2002</b> , 40, 3857-3866 <sup>96</sup>	7.8	96



- 3 Self-start performance evaluation in Darrieus-type vertical axis wind turbines: Methodology and computational tool applied to symmetrical airfoils. *Renewable Energy and Power Quality Journal*,250-255 6
- 2 Vertical Axis Wind Turbine Performance Prediction: An Approach to the Double Multiple Streamtube Model. *Renewable Energy and Power Quality Journal*,633-636 2
- 1 Sustainable Energy System of El Hierro Island. *Renewable Energy and Power Quality Journal*,46-50 8