

João Matias

List of Publications by Year in descending order

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146
papers

3,582
citations

147726

31
h-index

149623

56
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148
all docs

148
docs citations

148
times ranked

4172
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.1	0
2	An Industry 4.0 Conceptual Model Proposal for Cable Harness Testing Equipment Industry. <i>Procedia Computer Science</i> , 2022, 200, 1392-1401.	1.2	2
3	Residual Biomass: A Comprehensive Review on the Importance, Uses and Potential in a Circular Bioeconomy Approach. <i>Resources</i> , 2022, 11, 35.	1.6	21
4	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.	1.6	5
5	Improvement of the Logistics Flows in the Receiving Process of a Warehouse. <i>Logistics</i> , 2022, 6, 22.	2.4	5
6	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> , 2022, 5, 61.	1.2	6
7	Implementation of Lean management system in a plastic packaging industry. , 2022, , .		2
8	The role of supply chain 4.0 on supply chain collaboration - an exploratory case study in the automotive industry. , 2022, , .		1
9	Support of Advanced Technologies in Supply Chain Processes and Sustainability Impact. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3026.	1.3	9
10	Energy Recovery from Invasive Species: Creation of Value Chains to Promote Control and Eradication. <i>Recycling</i> , 2021, 6, 21.	2.3	15
11	Energy Recovery of Agricultural Residues: Incorporation of Vine Pruning in the Production of Biomass Pellets with ENplus® Certification. <i>Recycling</i> , 2021, 6, 28.	2.3	8
12	Production of Biochar from Vine Pruning: Waste Recovery in the Wine Industry. <i>Agriculture (Switzerland)</i> , 2021, 11, 489.	1.4	14
13	Coal to Biomass Conversion as a Path to Sustainability: A Hypothetical Scenario at Pego Power Plant (Abrantes, Portugal). <i>Resources</i> , 2021, 10, 84.	1.6	8
14	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.	1.3	25
15	Viability of Creating an Offshore Wind Energy Cluster: A Case Study. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 308.	1.3	9
16	Occupational health and safety in construction projects: a case study on chemical industry sector. <i>International Journal of Occupational and Environmental Safety</i> , 2021, 5, 14-21.	0.3	0
17	A comprehensive review of industrial symbiosis. <i>Journal of Cleaner Production</i> , 2020, 247, 119113.	4.6	173
18	Open Innovation 4.0 as an Enhancer of Sustainable Innovation Ecosystems. <i>Sustainability</i> , 2020, 12, 8112.	1.6	112

#	ARTICLE	IF	CITATIONS
19	Digital Transformation and Knowledge Management in the Public Sector. Sustainability, 2020, 12, 5824.	1.6	67
20	Transitions between Centralization and Metapolization: From City Development Strategy (CDS) to Peri-Urban Development Strategy (PDS). Sustainability, 2020, 12, 10653.	1.6	2
21	Development of a Low-Cost Experimental Procedure for the Production of Laboratory Samples of Torrefied Biomass. Clean Technologies, 2020, 2, 406-421.	1.9	1
22	A Logistics Management System for a Biomass-to-Energy Production Plant Storage Park. Energies, 2020, 13, 5512.	1.6	3
23	Carbon Dioxide Recovery through Industrial and Urban Symbiosis. , 2020, , .		1
24	Sustainable Energy Systems: Optimization and Efficiency. Applied Sciences (Switzerland), 2020, 10, 4405.	1.3	3
25	A Learning Factory for Remanufacturing: A New Configuration at Valladolid Lean School. Lecture Notes in Networks and Systems, 2020, , 1-10.	0.5	3
26	Biomass Torrefaction as a Key Driver for the Sustainable Development and Decarbonization of Energy Production. Sustainability, 2020, 12, 922.	1.6	28
27	Statistical Process Control Accuracy Estimation of a Stamping Process in Automotive Industry. Lecture Notes in Mechanical Engineering, 2020, , 48-60.	0.3	2
28	A Practical Study of the Application of Value Stream Mapping to a Pre-series Production Area. Springer Proceedings in Mathematics and Statistics, 2019, , 117-125.	0.1	2
29	Industrial Symbiosis Initiatives in United States of America and Canada: Current Status and Challenges. , 2019, , .		4
30	Current Status, Emerging Challenges, and Future Prospects of Industrial Symbiosis in Portugal. Sustainability, 2019, 11, 5497.	1.6	19
31	An approach to provide efficient choices to a household consumer. , 2019, , .		2
32	Technological Innovation in Biomass Energy for the Sustainable Growth of Textile Industry. Sustainability, 2019, 11, 528.	1.6	18
33	A Decision Support Approach to Provide Sustainable Solutions to the Consumer, by Using Electrical Appliances. Sustainability, 2019, 11, 1143.	1.6	5
34	Climate Change Mitigation Through the Application of LCA Methodology on the Environmental Performance of Two Vehicles with Distinct Engines. Contributions To Economics, 2019, , 245-260.	0.2	0
35	Implementation of a Software Program for the Optimization of an Oil Pump Assembly Line. Springer Proceedings in Mathematics and Statistics, 2019, , 127-137.	0.1	0
36	Improving the Availability of a Production Line Through TPM in an Automotive Gearbox Industrial Unit. Springer Proceedings in Mathematics and Statistics, 2019, , 149-156.	0.1	1

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37	Environmental, Economic, and Social Impact of Industrial Symbiosis: Methods and Indicators Review. Springer Proceedings in Mathematics and Statistics, 2019, , 157-165.	0.1	5
38	Continuous Improvement in an Industrial Unit of the Wood Industry Through Kanban. Springer Proceedings in Mathematics and Statistics, 2019, , 167-176.	0.1	1
39	Evaluating the Impact of 5S Implementation on Occupational Safety in an Automotive Industrial Unit. Springer Proceedings in Mathematics and Statistics, 2019, , 139-148.	0.1	2
40	Quality Control in the Context of Industry 4.0. Springer Proceedings in Mathematics and Statistics, 2019, , 177-187.	0.1	19
41	Evaluation of the utilization of woodchips as fuel for industrial boilers. Journal of Cleaner Production, 2019, 223, 270-277.	4.6	24
42	Job shop production system to a manufacturing cellular system: an action research study. International Journal of Industrial and Systems Engineering, 2019, 32, 267.	0.1	0
43	The Potential of Industrial Symbiosis: Case Analysis and Main Drivers and Barriers to Its Implementation. Sustainability, 2019, 11, 7095.	1.6	78
44	Order fulfilment process improvement in a ceramic industry. Procedia Manufacturing, 2019, 38, 1436-1443.	1.9	3
45	Getting efficient choices in buildings by using Genetic Algorithms: Assessment & validation. Open Engineering, 2019, 9, 229-245.	0.7	1
46	A New Approach to Provide Sustainable Solutions for Residential Sector. IFIP Advances in Information and Communication Technology, 2019, , 329-342.	0.5	4
47	Logistics cost analysis between wood pellets and torrefied Biomass Pellets: The case of Portugal. , 2018, , .		5
48	Energy Efficiency in Buildings by Using Evolutionary Algorithms: An Approach to Provide Efficiency Choices to the Consumer, Considering the Rebound Effect. IFIP Advances in Information and Communication Technology, 2018, , 120-129.	0.5	6
49	Economic and environmental benefits of using textile waste for the production of thermal energy. Journal of Cleaner Production, 2018, 171, 1353-1360.	4.6	79
50	Characterization and Possible Use to Fly Ashes from Anthracite Combustion in a Thermal Power Plant. , 2018, , .		1
51	A Practical Study of the Application of SMED to Electron-beam Machining in Automotive Industry. Procedia Manufacturing, 2018, 17, 647-654.	1.9	38
52	Improvement of the Statistical Process Control Certainty in an Automotive Manufacturing Unit. Procedia Manufacturing, 2018, 17, 729-736.	1.9	19
53	A Structural Literature Review of the Single Minute Exchange of Die: The Latest Trends. Procedia Manufacturing, 2018, 17, 783-790.	1.9	20
54	Correlation between Chemical Alterations and Energetic Properties in Torrefied Biomass. , 2018, , .		1

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55	Pinus Pinaster and Eucalyptus Globulus Energetic Properties and Ash Characterization. , 2018, , .		1
56	Long-Term Decision on Wind Investment with Considering Different Load Ranges of Power Plant for Sustainable Electricity Energy Market. Sustainability, 2018, 10, 3811.	1.6	29
57	Evolutionary algorithms on reducing energy consumption in buildings: An approach to provide smart and efficiency choices, considering the rebound effect. Computers and Industrial Engineering, 2018, 126, 729-755.	3.4	15
58	Evaluation of the Physical, Chemical and Thermal Properties of Portuguese Maritime Pine Biomass. Sustainability, 2018, 10, 2877.	1.6	34
59	Model Predictive Control Home Energy Management and Optimization Strategy with Demand Response. Applied Sciences (Switzerland), 2018, 8, 408.	1.3	77
60	The Influence of Collaboration Initiatives on the Sustainability of the Cashew Supply Chain. Sustainability, 2018, 10, 2075.	1.6	25
61	Improvement of the statistical process control through an enhanced test of normality. , 2018, , .		6
62	Future Perspectives of Biomass Torrefaction: Review of the Current State-Of-The-Art and Research Development. Sustainability, 2018, 10, 2323.	1.6	123
63	Third-party logistics continuous improvement through integrated fleet management: the case of a transport company. International Journal of Logistics Systems and Management, 2018, 31, 39.	0.2	2
64	Biomass in the generation of electricity in Portugal: A review. Renewable and Sustainable Energy Reviews, 2017, 71, 373-378.	8.2	62
65	A proposed framework to assess upstream supply chain sustainability. Environment, Development and Sustainability, 2017, 19, 2253-2273.	2.7	33
66	Internal Logistics System Selection with Total Cost of Ownership Analysis. IOP Conference Series: Materials Science and Engineering, 2017, 212, 012024.	0.3	0
67	Proposal of a Sustainable Circular Index for Manufacturing Companies. Resources, 2017, 6, 63.	1.6	93
68	Management and operations maintenance for a water treatment and supply company. International Journal of Industrial and Systems Engineering, 2017, 25, 360.	0.1	2
69	Weekend charging impact of EVs on a residential distribution transformer in a Portuguese Island. , 2016, , .		0
70	Model predictive control technique for energy optimization in residential sector. , 2016, , .		6
71	Torrefied Biomass Pellets: An alternative fuel for coal power plants. , 2016, , .		5
72	Novel methodology for integrated analog front-end signal processing blocks based portable multifunctional sensor for biomedical applications. , 2016, , .		0

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73	Innovative experimental low cost electronics operated instrumentation for wearable health systems with high resolution physiological measurements. , 2016, , .		3
74	Overloading analysis of an industrial client distribution transformer in a Portuguese Island. , 2016, , .		5
75	Wind power forecasting error distributions and probabilistic load dispatch. , 2016, , .		3
76	EV charging scheduler for overloading prevention of a distribution transformer supplying a factory. , 2016, , .		2
77	Characterization of biomass woodchips as fuel for industrial boilers. , 2016, , .		1
78	Smart electric vehicle charging scheduler for overloading prevention of an industry client power distribution transformer. Applied Energy, 2016, 178, 29-42.	5.1	54
79	A heuristic methodology to economic dispatch problem incorporating renewable power forecasting error and system reliability. Renewable Energy, 2016, 87, 731-743.	4.3	18
80	Biomass combustion systems: A review on the physical and chemical properties of the ashes. Renewable and Sustainable Energy Reviews, 2016, 53, 235-242.	8.2	250
81	Wood pellets as a sustainable energy alternative in Portugal. Renewable Energy, 2016, 85, 1011-1016.	4.3	63
82	IT Applications In Logistics And Their Influence On The Competitiveness Of Companies/Supply Chains. Analele Stiintifice Ale Universitatii 'Al I Cuza' Din Iasi Sectiunea IIIc, Stiinte Economice (1976), 2015, 62, 121-146.	0.1	1
83	Smart Home Communication Technologies and Applications: Wireless Protocol Assessment for Home Area Network Resources. Energies, 2015, 8, 7279-7311.	1.6	121
84	Effect of Loads and Other Key Factors on Oil-Transformer Ageing: Sustainability Benefits and Challenges. Energies, 2015, 8, 12147-12186.	1.6	76
85	Proposal of a Sustainability Index for the Automotive Industry. Sustainability, 2015, 7, 2113-2144.	1.6	88
86	Assessing Lead-Acid battery design parameters for energy storage applications on insular grids: A case study of Crete and S#ão Miguel islands. , 2015, , .		1
87	New schedule management approach of energy storage system in insular power system. , 2015, , .		0
88	An innovative technique for energy storage system management based on vanadium redox batteries. , 2015, , .		2
89	A fast method for the unit scheduling problem with significant renewable power generation. Energy Conversion and Management, 2015, 94, 178-189.	4.4	12
90	New control strategy for the weekly scheduling of insular power systems with a battery energy storage system. Applied Energy, 2015, 154, 459-470.	5.1	32

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91	Modelling and sizing of NaS (sodium sulfur) battery energy storage system for extending wind power performance in Crete Island. Energy, 2015, 90, 1606-1617.	4.5	56
92	Analysis of the use of biomass as an energy alternative for the Portuguese textile dyeing industry. Energy, 2015, 84, 503-508.	4.5	36
93	A probabilistic approach to solve the economic dispatch problem with intermittent renewable energy sources. Energy, 2015, 82, 949-959.	4.5	58
94	Managing vanadium redox batteries towards the optimal scheduling of insular power systems. , 2015, , .		0
95	Smart and energy-efficient home implementation: Wireless communication technologies role. , 2015, , .		5
96	A new methodology for solving the unit commitment in insular grids including uncertainty of renewable energies. , 2015, , .		0
97	Short-Term trading for a photovoltaic power producer in electricity markets. , 2015, , .		5
98	Optimal generic energy storage system offering in day-ahead electricity markets. , 2015, , .		5
99	Comparison of battery models for energy storage applications on insular grids. , 2015, , .		1
100	Including forecasting error of renewable generation on the optimal load dispatch. , 2015, , .		5
101	Short-term wind power forecasting using adaptive neuro-fuzzy inference system combined with evolutionary particle swarm optimization, wavelet transform and mutual information. Renewable Energy, 2015, 75, 301-307.	4.3	186
102	A new scenario generation-based method to solve the unit commitment problem with high penetration of renewable energies. International Journal of Electrical Power and Energy Systems, 2015, 64, 1063-1072.	3.3	61
103	Influence of Large Renewable Energy Integration on Insular Grid Code Compliance. IFIP Advances in Information and Communication Technology, 2015, , 296-308.	0.5	1
104	A Heuristic Approach for Economic Dispatch Problem in Insular Power Systems. IFIP Advances in Information and Communication Technology, 2015, , 317-324.	0.5	0
105	Hybrid evolutionary-adaptive approach to predict electricity prices and wind power in the short-term. , 2014, , .		4
106	Integration of the information systems in the production process: a case study. Production Planning and Control, 2014, 25, 1386-1399.	5.8	4
107	Probability theory-based economic dispatch model for insular power systems. , 2014, , .		1
108	A review on torrefied biomass pellets as a sustainable alternative to coal in power generation. Renewable and Sustainable Energy Reviews, 2014, 40, 153-160.	8.2	207

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109	The EHU-OEF: An OpenFlow-based Layer-2 experimental facility. <i>Computer Networks</i> , 2014, 63, 101-127.	3.2	10
110	Electricity prices forecasting by a hybrid evolutionary-adaptive methodology. <i>Energy Conversion and Management</i> , 2014, 80, 363-373.	4.4	44
111	Mixed biomass pellets for thermal energy production: A review of combustion models. <i>Applied Energy</i> , 2014, 127, 135-140.	5.1	124
112	Biomass waste co-firing with coal applied to the Sines Thermal Power Plant in Portugal. <i>Fuel</i> , 2014, 132, 153-157.	3.4	13
113	Energy recovery from cork industrial waste: Production and characterisation of cork pellets. <i>Fuel</i> , 2013, 113, 24-30.	3.4	29
114	Application of biomass for the production of energy in the Portuguese textile industry. , 2013, , .		5
115	A review of short-term wind power forecasting approaches. , 2013, , .		6
116	Economic evaluation and experimental setup of biomass energy as sustainable alternative for textile industry. , 2013, , .		4
117	HACCP and OHS: Can each one help improve the other in the catering sector?. <i>Food Control</i> , 2013, 30, 240-250.	2.8	8
118	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.	4.5	160
119	A review of short-term hydro scheduling tools. , 2013, , .		13
120	Simulation and experimental results for a photovoltaic system formed by polycrystalline solar modules. , 2012, , .		2
121	ZigBee wireless area network for home automation and energy management: Field trials and installation approaches. , 2012, , .		10
122	Zigbee devices for distributed generation management: field tests and installation approaches. , 2012, , .		2
123	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.	0.6	14
124	Hybrid neuro-fuzzy evolutionary approach for short-term wind power forecasting. , 2012, , .		3
125	Intelligent approach for forecasting in power engineering systems. , 2012, , .		3
126	ZigBee standard in the creation of wireless networks for advanced metering infrastructures. , 2012, , .		16

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127	Hybrid Evolutionary Neuro-fuzzy Computational Tool to Forecast Wind Power and Electricity Prices. International Federation for Information Processing, 2012, , 321-328.	0.4	1
128	Integrated total quality management: Beyond zero defects theory and towards innovation. Total Quality Management and Business Excellence, 2011, 22, 891-910.	2.4	55
129	Analytical Evaluation of a HIP Registration Enhancement for NEMO Scenarios. IEEE Communications Letters, 2011, 15, 587-589.	2.5	8
130	New blade profile for Darrieus wind turbines capable to self-start. , 2011, , .		15
131	Socio-Economic Development and Primary Energy Sources Substitution Towards Decarbonization. Low Carbon Economy, 2011, 02, 49-53.	0.7	5
132	Innovation in the organisation of management systems in Portuguese SMEs. International Journal of Entrepreneurship and Innovation Management, 2010, 11, 324.	0.1	5
133	Renewable Energy Systems: Industrial and Home Best Practise Case Studies. Renewable Energy and Power Quality Journal, 2010, 1, 258-263.	0.2	0
134	Energy scenarios: Toward a new energy paradigm. Futures, 2008, 40, 1-16.	1.4	62
135	Proactive reliability maintenance: a case study concerning maintenance service costs. Journal of Quality in Maintenance Engineering, 2008, 14, 343-355.	1.0	25
136	Consumption dynamics of primary-energy sources: The century of alternative energies. Applied Energy, 2007, 84, 763-770.	5.1	25
137	The Future of the Alternatives Energies: A Forecast Based on Technological Forecasting Techniques. Renewable Energy and Power Quality Journal, 2004, 1, 94-98.	0.2	0
138	The integration of the standards systems of quality management, environmental management and occupational health and safety management. International Journal of Production Research, 2002, 40, 3857-3866.	4.9	109
139	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, 0, , 250-255.	0.2	16
140	Vertical Axis Wind Turbine Performance Prediction: An Approach to the Double Multiple Streamtube Model. Renewable Energy and Power Quality Journal, 0, , 633-636.	0.2	6
141	Sustainable Energy System of El Hierro Island. Renewable Energy and Power Quality Journal, 0, , 46-50.	0.2	13
142	Modelling, Iterative Procedure and Simulation Results for a Monocrystalline Solar Cell. Renewable Energy and Power Quality Journal, 0, , 541-544.	0.2	0
143	Renewable Energies Increase, Fossil Fuels Replacement and Nuclear Option Assessment in the Portuguese Energy Mix. Renewable Energy and Power Quality Journal, 0, , 713-716.	0.2	0
144	Production and Characterisation of Cork Pellets: An Alternative for Sustainable Energy Recovery. Renewable Energy and Power Quality Journal, 0, , 538-542.	0.2	0

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145	Economic and Sustainability Comparative Study of Wood Pellets Production in Portugal, Germany and Sweden. Renewable Energy and Power Quality Journal, 0, , 526-531.	0.2	3
146	Fast Method to the Unit Scheduling of Power Systems with Renewable Power Sources. Renewable Energy and Power Quality Journal, 0, , 37-41.	0.2	0