Monica Carvalho

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The lithium-ion battery: State of the art and future perspectives. Renewable and Sustainable Energy Reviews, 2018, 89, 292-308.	16.4	1,542
2	Multicriteria synthesis of trigeneration systems considering economic and environmental aspects. Applied Energy, 2012, 91, 245-254.	10.1	126
3	Structure optimization of energy supply systems in tertiary sector buildings. Energy and Buildings, 2009, 41, 1063-1075.	6.7	122
4	Optimal synthesis of trigeneration systems subject to environmental constraints. Energy, 2011, 36, 3779-3790.	8.8	100
5	Operational strategy and marginal costs in simple trigeneration systems. Energy, 2009, 34, 2001-2008.	8.8	89
6	Exergoeconomic and exergoenvironmental comparison of diesel-biodiesel blends in a direct injection engine at variable loads. Energy Conversion and Management, 2019, 183, 450-461.	9.2	81
7	Effects of the COVIDâ€19 pandemic on the Brazilian electricity consumption patterns. International Journal of Energy Research, 2021, 45, 3358-3364.	4.5	69
8	Energy, exergy and exergoenvironmental analyses of a sugarcane bagasse power cogeneration system. Energy Conversion and Management, 2020, 222, 113232.	9.2	59
9	The effect of lockdown on the outcomes of COVID-19 in Spain: An ecological study. PLoS ONE, 2020, 15, e0236779.	2.5	52
10	Allocation of economic costs in trigeneration systems at variable load conditions. Energy and Buildings, 2011, 43, 2869-2881.	6.7	39
11	On the thermoeconomic and LCA methods for waste and fuel allocation in multiproduct systems. Energy, 2017, 127, 775-785.	8.8	39
12	Geographic evaluation of trigeneration systems in the tertiary sector. Effect of climatic and electricity supply conditions. Energy, 2011, 36, 1931-1939.	8.8	36
13	Concentrating Solar Power. , 2018, , 373-402.		36
14	Modeling simple trigeneration systems for the distribution of environmental loads. Environmental Modelling and Software, 2012, 30, 71-80.	4.5	35
15	Trend analyses of electricity load changes in Brazil due to COVID-19 shutdowns. Electric Power Systems Research, 2021, 193, 107009.	3.6	34
16	Environmental evaluation of dish-Stirling technology for power generation. Solar Energy, 2012, 86, 2811-2825.	6.1	33
17	Carbon footprint associated with four disposal scenarios for urban pruning waste. Environmental Science and Pollution Research, 2018, 25, 1863-1868.	5.3	33
18	Thermodynamic-economic optimization of a solar-powered combined energy system with desalination for electricity and freshwater production. Smart Energy, 2022, 5, 100062.	5.7	33

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19	Carbon footprint of the generation of bioelectricity from sugarcane bagasse in a sugar and ethanol industry. International Journal of Global Warming, 2019, 17, 235.	0.5	31
20	Exergoenvironmental results of a eucalyptus biomass-fired power plant. Energy, 2019, 189, 116188.	8.8	30
21	A critical review of the greenhouse gas emissions associated with parabolic trough concentrating solar power plants. Journal of Cleaner Production, 2021, 289, 125774.	9.3	30
22	Life cycle assessment and comparative exergoenvironmental evaluation of a micro-trigeneration system. Energy, 2021, 216, 119310.	8.8	28
23	Analysis of a CHP plant in a municipal solid waste landfill in the South of Spain. Applied Thermal Engineering, 2015, 91, 706-717.	6.0	27
24	Development and assessment of a solar home system to cover cooking and lighting needs in developing regions as a better alternative for existing practices. Solar Energy, 2017, 155, 7-17.	6.1	27
25	Use of index analysis to evaluate the water quality of a stream receiving industrial effluents. Water S A, 2010, 33, .	0.4	23
26	Life cycle assessment of the transesterification double step process for biodiesel production from refined soybean oil in Brazil. Environmental Science and Pollution Research, 2016, 23, 11025-11033.	5.3	23
27	Assessment of energy and exergy efficiencies in steam generators. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 3217-3226.	1.6	21
28	Carbon and water footprints of irrigated corn and non-irrigated wheat in Northeast Spain. Environmental Science and Pollution Research, 2017, 24, 5647-5653.	5.3	21
29	Environmental impact and cost allocations for a dual product heat pump. Energy Conversion and Management, 2018, 173, 763-772.	9.2	21
30	Optimal synthesis of energy supply systems for remote open pit mines. Applied Thermal Engineering, 2014, 64, 315-330.	6.0	20
31	Potential of photovoltaic solar energy to reduce the carbon footprint of the Brazilian electricity matrix. LALCA- Revista Latino Americana Em Avaliação Do Ciclo De Vida, 2017, 1, 64-85.	0.3	20
32	Exergy, exergoeconomic, life cycle, and exergoenvironmental assessments for an engine fueled by diesel–ethanol blends with aluminum oxide and titanium dioxide additive nanoparticles. Fuel, 2022, 320, 123861.	6.4	20
33	Photovoltaic solar energy in the economic optimisation of energy supply and conversion. IET Renewable Power Generation, 2018, 12, 1263-1268.	3.1	18
34	Synthesis of Trigeneration Systems: Sensitivity Analyses and Resilience. Scientific World Journal, The, 2013, 2013, 1-16.	2.1	15
35	Comparison of greenhouse gas emissions relative to two frying processes for homemade potato chips. Environmental Progress and Sustainable Energy, 2018, 37, 481-487.	2.3	15
36	Carbon footprints for the supply of electricity to a heat pump: Solar energy vs. electric grid. Journal of Renewable and Sustainable Energy, 2018, 10, 023701.	2.0	14

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37	Exergoeconomic and exergoenvironmental analyses of an off-grid reverse osmosis system with internal combustion engine and waste heat recovery. Chemical Engineering Journal Advances, 2020, 4, 100056.	5.2	14
38	Environmental evaluation of the life cycle of elephant grass fertilization—Cenchrus purpureus (Schumach.) Morrone—using chemical fertilization and biosolids. Environmental Monitoring and Assessment, 2018, 190, 30.	2.7	13
39	Energy, exergy, and exergoeconomic evaluations of a micro-trigeneration system. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	13
40	Concept Development of Optimal Mine Site Energy Supply. Energies, 2012, 5, 4726-4745.	3.1	12
41	APPLICATION OF A POLYGENERATION OPTIMIZATION TECHNIQUE FOR A HOSPITAL IN NORTHERN ONTARIO. Transactions of the Canadian Society for Mechanical Engineering, 2014, 38, 45-62.	0.8	12
42	Optimal Design and Control of Wind-Diesel Hybrid Energy Systems for Remote Arctic Mines. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	12
43	Indicators for sustainability assessment of biofuels: Economic, environmental, social, and technological dimensions. , 2020, , 73-113.		12
44	Sustainable enhancement of district heating and cooling configurations by combining thermal energy storage and life cycle assessment. Clean Technologies and Environmental Policy, 2021, 23, 857-867.	4.1	12
45	Carbon emissions associated with two types of foundations: CP-II Portland cement-based composite vs. geopolymer concrete. Revista Materia, 2019, 24, .	0.2	12
46	Exergoeconomic Assessment of a Compact Electricity-Cooling Cogeneration Unit. Energies, 2020, 13, 5417.	3.1	11
47	Influence of climatic variability on the electricity generation potential by renewable sources in the Brazilian semi-arid region. Journal of Arid Environments, 2021, 184, 104331.	2.4	11
48	Carbon footprint associated with a mono‣i cell photovoltaic ceramic roof tile system. Environmental Progress and Sustainable Energy, 2019, 38, 13120.	2.3	10
49	Municipal Solid Waste Management and Energy Recovery. , 0, , .		10
50	A decision-making method to choose optimal systems considering financial and environmental aspects: Application in hybrid CCHP systems. Energy, 2022, 250, 123816.	8.8	9
51	Hybridization of solar dishâ€stirling technology: Analysis and design. Environmental Progress and Sustainable Energy, 2014, 33, 1459-1466.	2.3	8
52	Sustainable enhancement of sugarcane fertilization for energy purposes in hot climates. Renewable Energy, 2020, 159, 547-552.	8.9	8
53	Greenhouse gas accounting for the energy transition in a brewery. Environmental Progress and Sustainable Energy, 2021, 40, e13563.	2.3	8
54	Robustness within the optimal economic polygeneration system for a dairy industry. Journal of Cleaner Production, 2021, 314, 127976.	9.3	8

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55	URBAN PRUNING WASTE: CARBON FOOTPRINT ASSOCIATED WITH ENERGY GENERATION AND PROSPECTS FOR CLEAN DEVELOPMENT MECHANISMS. Revista Arvore, 2019, 43, .	0.5	8
56	Environmental Impacts of the Red Ceramics Industry in Northeast Brazil. International Journal of Emerging Research in Management & Technology, 2018, 6, 310.	0.1	8
57	CARBON FOOTPRINTS ASSOCIATED WITH ELECTRICITY GENERATION FROM BIOMASS SYNGAS AND DIESEL. Environmental Engineering and Management Journal, 2019, 18, 1391-1397.	0.6	8
58	Energy analysis of products and processes in a sanitary landfill. IET Renewable Power Generation, 2019, 13, 1063-1075.	3.1	7
59	100% renewable fueled mine. Energy, 2020, 205, 117964.	8.8	7
60	Environmental and Economic Perspectives in the Analysis of Two Options for Hand Drying At an University Campus. International Journal of Emerging Research in Management & Technology, 2017, 6, 24-35.	0.1	7
61	Computational fluid dynamics. Management of Environmental Quality, 2004, 15, 102-110.	4.3	6
62	A comparison of the economic benefits of centralized and distributed model predictive control strategies for optimal and sub-optimal mine dewatering system designs. Applied Thermal Engineering, 2015, 90, 1172-1183.	6.0	6
63	Carbon Footprint Associated with Firewood Consumption in Northeast Brazil: An Analysis by the IPCC 2013 GWP 100y Criterion. Waste and Biomass Valorization, 2019, 10, 2985-2993.	3.4	6
64	Optimization of an integrated combined cooling, heat, and power system with solar and wind contribution for buildings located in tropical areas. International Journal of Energy Research, 2022, 46, 1263-1284.	4.5	6
65	Exergy, exergoeconomic and exergy-based emission cost analyses of a coconut husk-fired power and desalination plant. International Journal of Exergy, 2020, 32, 267.	0.4	5
66	Life Cycle Analysis as a Decision Criterion for the Implementation of Solar Photovoltaic Panels in as Northeast Brazil Hospital. Green Energy and Technology, 2016, , 295-310.	0.6	5
67	Second law assessment of a Hoffmann kiln for the red ceramics industry. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	4
68	Adaptation of the ascendency theory to industrial systems. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	4
69	Exergoenvironmental analysis of a combined cycle power plant fueled by natural gas from an offshore platform. Sustainable Energy Technologies and Assessments, 2021, 46, 101245.	2.7	4
70	Perspectives on the Implementation of Climate Change Public Policies in Brazil. Green Energy and Technology, 2016, , 13-20.	0.6	4
71	MULTICRITERIA OPTIMIZATION OF RENEWABLE-BASED POLYGENERATION SYSTEM FOR TERTIARY SECTOR BUILDINGS. Environmental Engineering and Management Journal, 2019, 18, 2441-2453.	0.6	4
72	Carbon footprint of the generation of bioelectricity from sugarcane bagasse in a sugar and ethanol industry. International Journal of Global Warming, 2019, 17, 235.	0.5	4

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73	Economic and greenhouse gas assessments for two hot water industrial systems: Solar vs. natural gas. Cleaner Engineering and Technology, 2022, 6, 100365.	4.0	4
74	Life Cycle and Exergoenvironmental Analyses of Ethanol: Performance of a Flex-Fuel Spark-Ignition Engine at Wide-Open Throttle Conditions. Energies, 2022, 15, 1422.	3.1	4
75	Energy, Exergy, Entropy Generation Minimization, and Exergoenvironmental Analyses of Energy Systems-A Mini-Review. Frontiers in Sustainability, 2022, 3, .	2.6	4
76	On the consideration of different dead states in the exergy assessment of a solar-assisted combined cooling, heat and power system. Sustainable Energy Technologies and Assessments, 2021, 47, 101361.	2.7	3
77	Tackling Dissipative Components Based on the SPECO Approach: A Cryogenic Heat Exchanger Used in Natural Gas Liquefaction. Energies, 2021, 14, 6850.	3.1	3
78	Avaliação do ciclo de vida da coleta seletiva de papel e papelão no núcleo do Bessa, municÃpio de João Pessoa (PB), Brasil. Engenharia Sanitaria E Ambiental, 2019, 24, 875-886.	0.5	3
79	Research on a Solar Hybrid Trigeneration System Based on Exergy and Exergoenvironmental Assessments. Energies, 2021, 14, 7560.	3.1	3
80	Analysis of the start-up and variable load operation of a combined cycle power plant for off-grid mines. International Journal of Global Warming, 2017, 13, 330.	0.5	2
81	Optimization and sensitivity analyses of a combined cooling, heat and power system for a residential building. Thermal Science, 2021, 25, 3969-3986.	1.1	2
82	Analysis of the start-up and variable load operation of a combined cycle power plant for off-grid mines. International Journal of Global Warming, 2017, 13, 330.	0.5	2
83	A STEP BY STEP DESIGN GUIDE FOR A SOLAR WATER HEATING SYSTEM CONSIDERING THERMAL LOSSES. Revista De Engenharia Térmica, 2019, 18, 26.	0.2	2
84	Greenhouse gas emissions associated with two air-conditioning systems for a university building. Environmental Challenges, 2021, 5, 100371.	4.2	2
85	Geothermal Power. , 2018, , 173-205.		1
86	Transcritical Carbon Dioxide Charge-Discharge Energy Storage with Integration of Solar Energy. Journal of Sustainable Development of Energy, Water and Environment Systems, 0, , .	1.9	1
87	Educação ambiental por meio de um app para quantificação de pegada de carbono. Research, Society and Development, 2021, 10, e0710111058.	0.1	1
88	Vulnerabilidade das regiões semiáridas Ãs mudanças climáticas: impactos na produção de energia fotovoltaica. Research, Society and Development, 2021, 10, e4010312931.	0.1	1
89	Greenhouse gas emissions associated with four types of fertilization for corn crops in a Mediterranean basin. Environmental Progress and Sustainable Energy, 2021, 40, e13681.	2.3	1
90	PEGADA DE CARBONO ASSOCIADA AO PROCESSO DE PASTEURIZAÇÃ∱O DE SORVETES. Revista Em Agronegocio E Meio Ambiente, 2019, 12, 609.	0.1	1

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91	Alocação em sistemas energéticos multiproduto: revisão e proposta de métodos. LALCA- Revista Latino Americana Em Avaliação Do Ciclo De Vida, 0, 4, e44660.	0.3	1
92	Thermoeconomic and thermoenvironmental analysis of the chilled water system in a shopping mall. International Journal of Refrigeration, 2022, 134, 304-311.	3.4	1
93	Behavioral effects of microwave radiation on Rattus norvegicus. , 0, , .		0
94	Evaluation of the level of stress in rats of the species Rattus norvegicus submitted to microwave radiation. , 0, , .		0
95	The influence of microwave radiation on the behaviour of Rattus norvegicus. International Journal of Risk Assessment and Management, 2009, 13, 82.	0.1	0
96	Water quality of a stream receiving industrial effluents, located in the Brazilian Northeast. International Journal of Risk Assessment and Management, 2009, 13, 137.	0.1	0
97	Evaluation of Environmental Loads for the Synthesis of a Trigeneration System. , 2010, , .		0
98	Comparação ambiental entre sistema fotovoltaico convencional e semitransparente. Revista Principia, 2021, 1, 103.	0.1	0
99	On the definition of part-load operation strategies in a complex trigeneration system with hourly-seasonal demands: Exergoeconomics and optimization. Energy Conversion and Management, 2021, 246, 114688.	9.2	0
100	Developing Carbon-limiting Disposal Scenarios For Urban Pruning Waste. , 2018, , .		0
101	Exergy, exergoeconomic and exergy-based emission cost analyses of a coconut husk-fired power and desalination plant. International Journal of Exergy, 2020, 32, 267.	0.4	0
102	Pegada de carbono associada à produção de bolos. Revista Em Agronegocio E Meio Ambiente, 2020, 13, 1185-1200.	0.1	0
103	Greenhouse gas emissions associated with traditional and alternative concretes. Revista Principia, 2023, 60, 561.	0.1	0
104	Evaluation of the manufacturing processes for solar selective surfaces based on CrxOy from a carbon footprint perspective. Cleaner Materials, 2022, 3, 100035.	5.1	0
105	Pegada de carbono da produção de pão francês em padaria no nordeste brasileiro. Revista Em Agronegocio E Meio Ambiente, 2020, 13, 1471-1492.	0.1	0
106	Pegada de carbono da sinterização do porcelanato e potencial de mitigação de mudanças climáticas associado à substituição energética. Revista Principia, 0, , .	0.1	0
107	The effect of lockdown on the outcomes of COVID-19 in Spain: An ecological study. , 2020, 15, e0236779.		0
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109	The effect of lockdown on the outcomes of COVID-19 in Spain: An ecological study. , 2020, 15, e0236779.		ο
110	The effect of lockdown on the outcomes of COVID-19 in Spain: An ecological study. , 2020, 15, e0236779.		0