Monica Carvalho

List of Publications by Year
in descending order

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110 papers	3,329 citations	279798 23 h-index	155660 55 g-index
113 all docs	113 docs citations	113 times ranked	3800 citing authors

#	Article	IF	Citations
1	Greenhouse gas emissions associated with traditional and alternative concretes. Revista Principia, 2023, 60, 561.	0.1	0
2	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
3	Thermoeconomic and thermoenvironmental analysis of the chilled water system in a shopping mall. International Journal of Refrigeration, 2022, 134, 304-311.	3.4	1
4	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
5	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
6	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
7	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
8	Exergy, exergoeconomic, life cycle, and exergoenvironmental assessments for an engine fueled by dieselâ€“ethanol blends with aluminum oxide and titanium dioxide additive nanoparticles. Fuel, 2022, 320, 123861.	6.4	20
9	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
10	Energy, Exergy, Entropy Generation Minimization, and Exergoenvironmental Analyses of Energy Systems-A Mini-Review. Frontiers in Sustainability, 2022, 3, .	2.6	4
11	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
12	Life cycle assessment and comparative exergoenvironmental evaluation of a micro-trigeneration system. Energy, 2021, 216, 119310.	8.8	28
13	Greenhouse gas accounting for the energy transition in a brewery. Environmental Progress and Sustainable Energy, 2021, 40, e13563.	2.3	8
14	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
15	Effects of the COVIDâ€19 pandemic on the Brazilian electricity consumption patterns. International Journal of Energy Research, 2021, 45, 3358-3364.	4.5	69
16	EducaÃ§Ã£o ambiental por meio de um app para quantificaÃ§Ã£o de pegada de carbono. Research, Society and Development, 2021, 10, e0710111058.	0.1	1
17	ComparaÃ§Ã£o ambiental entre sistema fotovoltaico convencional e semitransparente. Revista Principia, 2021, 1, 103.	0.1	0
18	Vulnerabilidade das regiÃµes semiÃ¡ridas Ãs mudanÃ§as climÃ¡ticas: impactos na produÃ§Ã£o de energia fotovoltaica. Research, Society and Development, 2021, 10, e4010312931.	0.1	1

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19	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
20	Trend analyses of electricity load changes in Brazil due to COVID-19 shutdowns. Electric Power Systems Research, 2021, 193, 107009.	3.6	34
21	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
22	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
23	Robustness within the optimal economic polygeneration system for a dairy industry. Journal of Cleaner Production, 2021, 314, 127976.	9.3	8
24	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
25	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
26	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
27	Tackling Dissipative Components Based on the SPECO Approach: A Cryogenic Heat Exchanger Used in Natural Gas Liquefaction. Energies, 2021, 14, 6850.	3.1	3
28	Greenhouse gas emissions associated with two air-conditioning systems for a university building. Environmental Challenges, 2021, 5, 100371.	4.2	2
29	Research on a Solar Hybrid Trigeneration System Based on Exergy and Exergoenvironmental Assessments. Energies, 2021, 14, 7560.	3.1	3
30	Indicators for sustainability assessment of biofuels: Economic, environmental, social, and technological dimensions. , 2020, , 73-113.		12
31	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
32	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
33	Energy, exergy and exergoenvironmental analyses of a sugarcane bagasse power cogeneration system. Energy Conversion and Management, 2020, 222, 113232.	9.2	59
34	The effect of lockdown on the outcomes of COVID-19 in Spain: An ecological study. PLoS ONE, 2020, 15, e0236779.	2.5	52
35	Exergoeconomic Assessment of a Compact Electricity-Cooling Cogeneration Unit. Energies, 2020, 13, 5417.	3.1	11
36	100% renewable fueled mine. Energy, 2020, 205, 117964.	8.8	7

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37	Sustainable enhancement of sugarcane fertilization for energy purposes in hot climates. Renewable Energy, 2020, 159, 547-552.	8.9	8
38	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
39	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
40	Pegada de carbono associada Ã produÃ§Ã£o de bolos. Revista Em Agronegocio E Meio Ambiente, 2020, 13, 1185-1200.	0.1	0
41	Pegada de carbono da produÃ§Ã£o de pÃ£o francÃªs em padaria no nordeste brasileiro. Revista Em Agronegocio E Meio Ambiente, 2020, 13, 1471-1492.	0.1	0
42	The effect of lockdown on the outcomes of COVID-19 in Spain: An ecological study. , 2020, 15, e0236779.		0
43	The effect of lockdown on the outcomes of COVID-19 in Spain: An ecological study. , 2020, 15, e0236779.		0
44	The effect of lockdown on the outcomes of COVID-19 in Spain: An ecological study. , 2020, 15, e0236779.		0
45	The effect of lockdown on the outcomes of COVID-19 in Spain: An ecological study. , 2020, 15, e0236779.		0
46	Adaptation of the ascendency theory to industrial systems. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	4
47	Exergoenvironmental results of a eucalyptus biomass-fired power plant. Energy, 2019, 189, 116188.	8.8	30
48	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
49	Carbon footprint associated with a monoâ€Si cell photovoltaic ceramic roof tile system. Environmental Progress and Sustainable Energy, 2019, 38, 13120.	2.3	10
50	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
51	Energy analysis of products and processes in a sanitary landfill. IET Renewable Power Generation, 2019, 13, 1063-1075.	3.1	7
52	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
53	URBAN PRUNING WASTE: CARBON FOOTPRINT ASSOCIATED WITH ENERGY GENERATION AND PROSPECTS FOR CLEAN DEVELOPMENT MECHANISMS. Revista Arvore, 2019, 43, .	0.5	8
54	Carbon emissions associated with two types of foundations: CP-II Portland cement-based composite vs. geopolymer concrete. Revista Materia, 2019, 24, .	0.2	12

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55	CARBON FOOTPRINTS ASSOCIATED WITH ELECTRICITY GENERATION FROM BIOMASS SYNGAS AND DIESEL. Environmental Engineering and Management Journal, 2019, 18, 1391-1397.	0.6	8
56	MULTICRITERIA OPTIMIZATION OF RENEWABLE-BASED POLYGENERATION SYSTEM FOR TERTIARY SECTOR BUILDINGS. Environmental Engineering and Management Journal, 2019, 18, 2441-2453.	0.6	4
57	A STEP BY STEP DESIGN GUIDE FOR A SOLAR WATER HEATING SYSTEM CONSIDERING THERMAL LOSSES. Revista De Engenharia TÃ©rmica, 2019, 18, 26.	0.2	2
58	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
59	PEGADA DE CARBONO ASSOCIADA AO PROCESSO DE PASTEURIZAÃ‡ÃƒO DE SORVETES. Revista Em Agronegocio E Meio Ambiente, 2019, 12, 609.	0.1	1
60	AvaliaÃ§Ã£o do ciclo de vida da coleta seletiva de papel e papelÃ£o no nÃºcleo do Bessa, municÃpio de JoÃ£o Pessoa (PB), Brasil. Engenharia Sanitaria E Ambiental, 2019, 24, 875-886.	0.5	3
61	Concentrating Solar Power. , 2018, , 373-402.		36
62	Environmental evaluation of the life cycle of elephant grass fertilizationâ€"Cenchrus purpureus (Schumach.) Morroneâ€"using chemical fertilization and biosolids. Environmental Monitoring and Assessment, 2018, 190, 30.	2.7	13
63	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
64	The lithium-ion battery: State of the art and future perspectives. Renewable and Sustainable Energy Reviews, 2018, 89, 292-308.	16.4	1,542
65	Carbon footprint associated with four disposal scenarios for urban pruning waste. Environmental Science and Pollution Research, 2018, 25, 1863-1868.	5.3	33
66	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
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	Photovoltaic solar energy in the economic optimisation of energy supply and conversion. IET Renewable Power Generation, 2018, 12, 1263-1268.	3.1	18
69	Geothermal Power. , 2018, , 173-205.		1
70	Environmental impact and cost allocations for a dual product heat pump. Energy Conversion and Management, 2018, 173, 763-772.	9.2	21
71	Environmental Impacts of the Red Ceramics Industry in Northeast Brazil. International Journal of Emerging Research in Management & Technology, 2018, 6, 310.	0.1	8
72	Developing Carbon-limiting Disposal Scenarios For Urban Pruning Waste. , 2018, , .		0

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73	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
74	On the thermoeconomic and LCA methods for waste and fuel allocation in multiproduct systems. Energy, 2017, 127, 775-785.	8.8	39
75	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
76	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
77	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
78	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
79	Potential of photovoltaic solar energy to reduce the carbon footprint of the Brazilian electricity matrix. LALCA- Revista Latino Americana Em AvaliaÃ§Ã£o Do Ciclo De Vida, 2017, 1, 64-85.	0.3	20
80	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
81	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
82	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
83	Perspectives on the Implementation of Climate Change Public Policies in Brazil. Green Energy and Technology, 2016, , 13-20.	0.6	4
84	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
85	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
86	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
87	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
88	Hybridization of solar dishâ€stirling technology: Analysis and design. Environmental Progress and Sustainable Energy, 2014, 33, 1459-1466.	2.3	8
89	Optimal synthesis of energy supply systems for remote open pit mines. Applied Thermal Engineering, 2014, 64, 315-330.	6.0	20
90	Synthesis of Trigeneration Systems: Sensitivity Analyses and Resilience. Scientific World Journal, The, 2013, 2013, 1-16.	2.1	15

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91	Concept Development of Optimal Mine Site Energy Supply. Energies, 2012, 5, 4726-4745.	3.1	12
92	Environmental evaluation of dish-Stirling technology for power generation. Solar Energy, 2012, 86, 2811-2825.	6.1	33
93	Multicriteria synthesis of trigeneration systems considering economic and environmental aspects. Applied Energy, 2012, 91, 245-254.	10.1	126
94	Modeling simple trigeneration systems for the distribution of environmental loads. Environmental Modelling and Software, 2012, 30, 71-80.	4.5	35
95	Allocation of economic costs in trigeneration systems at variable load conditions. Energy and Buildings, 2011, 43, 2869-2881.	6.7	39
96	Geographic evaluation of trigeneration systems in the tertiary sector. Effect of climatic and electricity supply conditions. Energy, 2011, 36, 1931-1939.	8.8	36
97	Optimal synthesis of trigeneration systems subject to environmental constraints. Energy, 2011, 36, 3779-3790.	8.8	100
98	Evaluation of Environmental Loads for the Synthesis of a Trigeneration System. , 2010, , .		0
99	Use of index analysis to evaluate the water quality of a stream receiving industrial effluents. Water S A, 2010, 33, .	0.4	23
100	Structure optimization of energy supply systems in tertiary sector buildings. Energy and Buildings, 2009, 41, 1063-1075.	6.7	122
101	Operational strategy and marginal costs in simple trigeneration systems. Energy, 2009, 34, 2001-2008.	8.8	89
102	The influence of microwave radiation on the behaviour of Rattus norvegicus. International Journal of Risk Assessment and Management, 2009, 13, 82.	0.1	0
103	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
104	Computational fluid dynamics. Management of Environmental Quality, 2004, 15, 102-110.	4.3	6
105	Behavioral effects of microwave radiation on Rattus norvegicus. , 0, , .		0
106	Evaluation of the level of stress in rats of the species Rattus norvegicus submitted to microwave radiation. , 0, , .		0
107	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
108	Municipal Solid Waste Management and Energy Recovery. , 0, , .		10

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109	AlocaÃ§Ã£o em sistemas energÃ©ticos multiproduto: revisÃ£o e proposta de mÃ©todos. LALCA- Revista Latino Americana Em AvaliaÃ§Ã£o Do Ciclo De Vida, 0, 4, e44660.	0.3	1
110	Pegada de carbono da sinterizaÃ§Ã£o do porcelanato e potencial de mitigaÃ§Ã£o de mudanÃ§as climÃ¡ticas associado Ã substituiÃ§Ã£o energÃ©tica. Revista Principia, 0, , .	0.1	0