

Ivan Santos

List of Publications by Year in descending order

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54
papers

1,173
citations

394421

19
h-index

414414

32
g-index

54
all docs

54
docs citations

54
times ranked

1072
citing authors

#	ARTICLE	IF	CITATIONS
1	Electricity generation from biogas of anaerobic wastewater treatment plants in Brazil: an assessment of feasibility and potential. <i>Journal of Cleaner Production</i> , 2016, 126, 504-514.	9.3	103
2	Assessment of potential biogas production from multiple organic wastes in Brazil: Impact on energy generation, use, and emissions abatement. <i>Resources, Conservation and Recycling</i> , 2018, 131, 54-63.	10.8	103
3	Vinasse biogas for energy generation in Brazil: An assessment of economic feasibility, energy potential and avoided CO ₂ emissions. <i>Journal of Cleaner Production</i> , 2017, 151, 260-271.	9.3	84
4	Use of floating PV plants for coordinated operation with hydropower plants: Case study of the hydroelectric plants of the São Francisco River basin. <i>Energy Conversion and Management</i> , 2018, 171, 339-349.	9.2	84
5	Incineration of municipal solid waste in Brazil: An analysis of the economically viable energy potential. <i>Renewable Energy</i> , 2020, 149, 1386-1394.	8.9	72
6	Generating electrical energy through urban solid waste in Brazil: An economic and energy comparative analysis. <i>Journal of Environmental Management</i> , 2019, 231, 198-206.	7.8	70
7	Study on waste foundry exhaust sand, WFES, as a partial substitute of fine aggregates in conventional concrete. <i>Sustainable Cities and Society</i> , 2019, 45, 187-196.	10.4	41
8	Waste management studies in a Brazilian microregion: GHG emissions balance and LFG energy project economic feasibility analysis. <i>Energy Strategy Reviews</i> , 2018, 19, 31-43.	7.3	36
9	Analysis of the economic viability of the use of biogas produced in wastewater treatment plants to generate electrical energy. <i>Environment, Development and Sustainability</i> , 2021, 23, 2614-2629.	5.0	32
10	Assessment of electricity generation from biogas in Benin from energy and economic viability perspectives. <i>Renewable Energy</i> , 2021, 163, 613-624.	8.9	32
11	Methodology for the determination of optimum power of a Thermal Power Plant (TPP) by biogas from sanitary landfill. <i>Waste Management</i> , 2017, 65, 75-91.	7.4	31
12	Energy potential and economic analysis of hydrokinetic turbines implementation in rivers: An approach using numerical predictions (CFD) and experimental data. <i>Renewable Energy</i> , 2019, 143, 648-662.	8.9	31
13	Cost estimate of small hydroelectric power plants based on the aspect factor. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 229-238.	16.4	30
14	Combined use of biogas from sanitary landfill and wastewater treatment plants for distributed energy generation in Brazil. <i>Resources, Conservation and Recycling</i> , 2018, 136, 376-388.	10.8	29
15	Analysis of biogas produced by the anaerobic digestion of sludge generated at wastewater treatment plants in the South of Minas Gerais, Brazil as a potential energy source. <i>Sustainable Cities and Society</i> , 2018, 41, 139-153.	10.4	27
16	Power generation potential in posture aviaries in Brazil in the context of a circular economy. <i>Sustainable Energy Technologies and Assessments</i> , 2016, 18, 153-163.	2.7	26
17	Rice husk energy production in Brazil: An economic and energy extensive analysis. <i>Journal of Cleaner Production</i> , 2021, 290, 125188.	9.3	26
18	Energetic use of biogas from the anaerobic digestion of coffee wastewater in southern Minas Gerais, Brazil. <i>Renewable Energy</i> , 2020, 146, 2084-2094.	8.9	23

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19	A potential of the biogas generating and energy recovering from municipal solid waste. <i>Renewable Energy Focus</i> , 2018, 25, 4-16.	4.5	22
20	Reverse osmosis desalination plants in Brazil: A cost analysis using three different energy sources. <i>Sustainable Cities and Society</i> , 2018, 43, 134-143.	10.4	21
21	Energy and economic evaluation of MSW incineration and gasification in Brazil. <i>Renewable Energy</i> , 2022, 188, 933-944.	8.9	18
22	Economic study on LFG energy projects in function of the number of generators. <i>Sustainable Cities and Society</i> , 2018, 41, 587-600.	10.4	17
23	Vinasse biogas energy and economic analysis in the state of São Paulo, Brazil. <i>Journal of Cleaner Production</i> , 2020, 260, 121018.	9.3	17
24	Municipal solid waste management and economic feasibility for electricity generation from landfill gas and anaerobic reactors in a Brazilian state. <i>Environmental Technology and Innovation</i> , 2021, 22, 101453.	6.1	15
25	A literature review on wake dissipation length of hydrokinetic turbines as a guide for turbine array configuration. <i>Ocean Engineering</i> , 2022, 259, 111863.	4.3	14
26	Energy and Economic Evaluation of the Production of Biogas from Anaerobic and Aerobic Sludge in Brazil. <i>Waste and Biomass Valorization</i> , 2021, 12, 947-969.	3.4	13
27	Economic feasibility study of ocean wave electricity generation in Brazil. <i>Renewable Energy</i> , 2021, 178, 1279-1290.	8.9	13
28	Economic and CO ₂ avoided emissions analysis of WWTP biogas recovery and its use in a small power plant in Brazil. <i>Sustainable Energy Technologies and Assessments</i> , 2016, 17, 77-84.	2.7	12
29	Evaluation of greenhouse gas emissions avoided by wind generation in the Brazilian energetic matrix: A retroactive analysis and future potential. <i>Resources, Conservation and Recycling</i> , 2018, 137, 270-280.	10.8	12
30	Study of the energy balance and environmental liabilities associated with the manufacture of crystalline Si photovoltaic modules and deployment in different regions. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 383-394.	6.2	10
31	GHG avoided emissions and economic analysis by power generation potential in pasture aviaries in Brazil. <i>Renewable Energy</i> , 2018, 120, 524-535.	8.9	10
32	Study of the wake characteristics and turbines configuration of a hydrokinetic farm in an Amazonian river using experimental data and CFD tools. <i>Journal of Cleaner Production</i> , 2021, 299, 126881.	9.3	10
33	Technical and economic evaluation of using biomethane from sanitary landfills for supplying vehicles in the Southeastern region of Brazil. <i>Renewable Energy</i> , 2022, 196, 1142-1157.	8.9	10
34	Clarification of high-turbidity waters: a comparison of <i>Moringa oleifera</i> and virgin and recovered aluminum sulfate-based coagulants. <i>Environment, Development and Sustainability</i> , 2020, 22, 4551-4562.	5.0	9
35	Addition of iron ore tailings to increase the efficiency of anaerobic digestion of pig manure: A technical and economic analysis. <i>Biomass and Bioenergy</i> , 2021, 148, 106013.	5.7	9
36	Lab-scale and economic analysis of biogas production from swine manure. <i>Renewable Energy</i> , 2022, 186, 350-365.	8.9	9

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37	Mapping and energy analysis of Brazilian bioenergy power potential for three agricultural biomass byproducts. <i>Journal of Cleaner Production</i> , 2022, 349, 131466.	9.3	8
38	Energy potential using landfill biogas and solar photovoltaic system: a case study in Brazil. <i>Journal of Material Cycles and Waste Management</i> , 2019, 21, 1587-1601.	3.0	7
39	Electric energy generation from biogas derived from municipal solid waste using two systems: landfills and anaerobic digesters in the states of São Paulo and Minas Gerais, Brazil. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 48, 101552.	2.7	7
40	The limit of sequential exploitation of a river's hydraulic potential. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 272-285.	16.4	5
41	Energy and economic analysis for a desalination plant powered by municipal solid waste incineration and natural gas in Brazil. <i>Environment, Development and Sustainability</i> , 2022, 24, 1799-1826.	5.0	5
42	Study of the Potential for Energy Use of Biogas From a Wastewater Treatment Plant To a Medium-Sized City: A Technical, Economic and Environmental Analysis. <i>Waste and Biomass Valorization</i> , 2022, 13, 3509-3521.	3.4	5
43	Life cycle assessment of upflow anaerobic sludge blanket sludge management and activated sludge systems aiming energy use in the municipality of Itajubá, Minas Gerais, Brazil. <i>Journal of Material Cycles and Waste Management</i> , 2021, 23, 1810-1830.	3.0	4
44	DIMENSIONAMENTO DE UM REATOR UASB PARA TRATAMENTO DE EFLUENTES DOMESTICOS E RECUPERAÇÃO DO BIOGÁS PARA PRODUÇÃO ENERGÉTICA: UM ESTUDO DE CASO EM POUSO ALEGRE (MG). <i>Revista Brasileira De Energias Renováveis</i> , 2018, 7, .	0.1	2
45	Optimum hydropower potential study on nine Brazilian drainage basins using a numerical algorithm. <i>Environment, Development and Sustainability</i> , 2021, 23, 1729-1758.	5.0	2
46	Geração de energia usando biogás de aterros sanitários no Brasil: um estudo de potencial energético e viabilidade econômica em função da população. <i>Engenharia Sanitaria E Ambiental</i> , 2022, 27, 67-77.	0.5	2
47	Treatment of wastewater from the dairy industry with Moringa Oleífera using two different methods. <i>Research, Society and Development</i> , 2021, 10, e21710716514.	0.1	1
48	Simple modelling for maximum flow rates determination to be applied in economically feasible small hydropower plants. <i>American Journal of Hydropower Water and Environment Systems</i> , 2016, 3, 11-13.	0.1	1
49	SENSIBILITY ANALYSIS OF ECONOMICALLY OPTIMUM SCENARIOS OF A SMALL HYDROPOWER (SHP) IMPLEMENTATION PROJECT IN BRAZIL. <i>PCH Notícias & SHP News</i> , 2016, 68, 09-14.	0.0	1
50	OPTIMIZATION AND FINANCIAL RISK ANALYSIS OF SMALL HYDRO POWER (SHPS) DIMENSIONING, CONSIDERING THE CDM BENEFITS. <i>American Journal of Hydropower Water and Environment Systems</i> , 0, 2, 38-43.	0.1	1
51	A review of Brazilian agro-industrial pig farming systems: environmental impacts and applied anaerobic digestion processes with mineral additives. <i>Research, Society and Development</i> , 2022, 11, e6811121720.	0.1	1
52	Avaliação da eficiência do tratamento de águas cinzas utilizando sementes de Moringa oleífera sob diferentes metodologias de ensaio. <i>Research, Society and Development</i> , 2020, 9, e8879118136.	0.1	0
53	Estudo preliminar da biodigestão de esterco bovino com soro de leite em sistema de digestão em duplo estágio com purificação de biogás. <i>Research, Society and Development</i> , 2020, 9, e646985911.	0.1	0
54	Potential for Generation of Electrical Energy from Biogas Produced in the Anaerobic Treatment of Sewage Through Different Methodologies. <i>Journal of Solid Waste Technology and Management</i> , 2021, 47, 579-589.	0.2	0