

# Silvio De Oliveira Junior

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3664917/silvio-de-oliveira-junior-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

910  
citations

18  
h-index

28  
g-index

61  
ext. papers

1,088  
ext. citations

6.2  
avg, IF

4.87  
L-index

#	Paper	IF	Citations
52	Exergy analysis of sugarcane bagasse gasification. <i>Energy</i> , <b>2007</b> , 32, 314-327	7.9	110
51	Combined production of sugar, ethanol and electricity: Thermo-economic and environmental analysis and optimization. <i>Energy</i> , <b>2011</b> , 36, 3704-3715	7.9	68
50	Exergy and thermo-economic analysis of a turbofan engine during a typical commercial flight. <i>Energy</i> , <b>2010</b> , 35, 952-959	7.9	63
49	Supercritical steam cycles and biomass integrated gasification combined cycles for sugarcane mills. <i>Energy</i> , <b>2010</b> , 35, 1172-1180	7.9	48
48	Exergy analysis of petroleum separation processes in offshore platforms. <i>Energy Conversion and Management</i> , <b>1997</b> , 38, 1577-1584	10.6	47
47	On the efficiency, exergy costs and CO <sub>2</sub> emission cost allocation for an integrated syngas and ammonia production plant. <i>Energy</i> , <b>2016</b> , 117, 341-360	7.9	45
46	Exergy analysis of pretreatment processes of bioethanol production based on sugarcane bagasse. <i>Energy</i> , <b>2014</b> , 76, 130-138	7.9	40
45	Human body exergy analysis and the assessment of thermal comfort conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 77, 577-584	4.9	34
44	Modeling the exergy behavior of human body. <i>Energy</i> , <b>2012</b> , 45, 546-553	7.9	32
43	On the thermo-economic and LCA methods for waste and fuel allocation in multiproduct systems. <i>Energy</i> , <b>2017</b> , 127, 775-785	7.9	31
42	Renewable and non-renewable exergy costs and CO <sub>2</sub> emissions in the production of fuels for Brazilian transportation sector. <i>Energy</i> , <b>2015</b> , 88, 18-36	7.9	28
41	Exergy performance of human body under physical activities. <i>Energy</i> , <b>2013</b> , 62, 370-378	7.9	27
40	Modeling and optimization of an industrial ammonia synthesis unit: An exergy approach. <i>Energy</i> , <b>2017</b> , 137, 234-250	7.9	26
39	Comparative exergy and economic assessment of fossil and biomass-based routes for ammonia production. <i>Energy Conversion and Management</i> , <b>2019</b> , 194, 22-36	10.6	24
38	Exergy efficiency analysis of chemical and biochemical stages involved in liquid biofuels production processes. <i>Energy</i> , <b>2012</b> , 41, 138-145	7.9	24
37	Exergy analysis of offshore primary petroleum processing plant with CO <sub>2</sub> capture. <i>Energy</i> , <b>2015</b> , 88, 46-56	7.9	22
36	Modelling the exergy behavior of São Paulo State in Brazil. <i>Journal of Cleaner Production</i> , <b>2018</b> , 197, 643-655	7.9	19

35	Energy optimization of an FPSO operating in the Brazilian Pre-salt region. <i>Energy</i> , <b>2018</b> , 164, 390-399	7.9	19
34	Exergy-based method for analyzing the composition of the electricity cost generated in gas-fired combined cycle plants. <i>Energy</i> , <b>2008</b> , 33, 153-162	7.9	18
33	System evaluation of offshore platforms with gas liquefaction processes. <i>Energy</i> , <b>2018</b> , 144, 594-606	7.9	15
32	Assessment of thermal comfort conditions during physical exercise by means of exergy analysis. <i>Energy</i> , <b>2017</b> , 128, 609-617	7.9	12
31	FPSO fuel consumption and hydrocarbon liquids recovery optimization over the lifetime of a deep-water oil field. <i>Energy</i> , <b>2019</b> , 181, 927-942	7.9	11
30	Combined exergy analysis, energy integration and optimization of syngas and ammonia production plants: A cogeneration and syngas purification perspective. <i>Journal of Cleaner Production</i> , <b>2020</b> , 244, 118647	10.3	11
29	Syngas production with thermo-chemically recuperated gas expansion systems: An exergy analysis and energy integration study. <i>Energy</i> , <b>2019</b> , 178, 293-308	7.9	10
28	Exergy assessment of single and dual pressure industrial ammonia synthesis units. <i>Energy</i> , <b>2017</b> , 141, 2540-2558	7.9	10
27	Exergy model of the human heart. <i>Energy</i> , <b>2016</b> , 117, 612-619	7.9	10
26	Exergy assessment and techno-economic optimization of bioethanol production routes. <i>Fuel</i> , <b>2020</b> , 279, 118327	7.1	9
25	Performance assessment of primary petroleum production cogeneration plants. <i>Energy</i> , <b>2018</b> , 160, 233-244	7.9	9
24	A novel methodology for the design and optimisation of oil and gas offshore platforms. <i>Energy</i> , <b>2019</b> , 185, 158-175	7.9	8
23	Exergy assessment and energy integration of advanced gas turbine cycles on an offshore petroleum production platform. <i>Energy Conversion and Management</i> , <b>2019</b> , 197, 111846	10.6	7
22	Exergy Analysis of the Heart with a Stenosis in the Arterial Valve. <i>Entropy</i> , <b>2019</b> , 21,	2.8	6
21	The contributions of Prof. Jan Szargut to the exergy and environmental assessment of complex energy systems. <i>Energy</i> , <b>2018</b> , 161, 482-492	7.9	6
20	A thermodynamic assessment of therapeutic hypothermia techniques. <i>Energy</i> , <b>2015</b> , 85, 392-402	7.9	6
19	ENERGY AND EXERGY PERFORMANCE OF THREE FPSO OPERATIONAL MODES		6
18	Lifetime sensitivity analysis of FPSO operating parameters on energy consumption and overall oil production in a pre-salt oil field. <i>Chemical Engineering Communications</i> , <b>2020</b> , 207, 1483-1507	2.2	6

17	Exergy Analysis and Human Body Thermal Comfort Conditions: Evaluation of Different Body Compositions. <i>Entropy</i> , <b>2018</b> , 20,	2.8	5
16	Comparative assessment of advanced power generation and carbon sequestration plants on offshore petroleum platforms. <i>Energy</i> , <b>2020</b> , 203, 117737	7.9	4
15	Thermodynamic assessment of MVR implementation in multistage evaporation plants. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2018</b> , 40, 1	2	4
14	Exergy and Renewability Analysis of Liquid Biofuels Production Routes. <i>Green Energy and Technology</i> , <b>2013</b> , 215-236	0.6	4
13	Unit exergy cost and specific CO <sub>2</sub> emissions of the electricity generation in the Netherlands. <i>Energy</i> , <b>2020</b> , 208, 118279	7.9	3
12	Exergy Method for Conception and Assessment of Aircraft Systems. <i>Green Energy and Technology</i> , <b>2013</b> , 237-279	0.6	3
11	On the Exergy Determination for Petroleum Fractions and Separation Processes Efficiency. <i>Heat Transfer Engineering</i> , <b>2015</b> , 36, 974-983	1.7	3
10	Exergy and environmental analysis of black liquor upgrading gasification in an integrated kraft pulp and ammonia production plant. <i>International Journal of Exergy</i> , <b>2021</b> , 35, 35	1.2	3
9	Comparative assessment of black liquor upgraded gasification in integrated kraft pulp, methanol and dimethyl ether production plants. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 50, 25-30	0.6	2
8	Optimal design of power hubs for offshore petroleum platforms. <i>Energy</i> , <b>2021</b> , 235, 121353	7.9	2
7	Deep seawater as efficiency improver for cogeneration plants of petroleum production units. <i>Energy</i> , <b>2019</b> , 177, 29-43	7.9	1
6	Life performance of oil and gas platforms for various production profiles and feed compositions. <i>Energy</i> , <b>2018</b> , 161, 583-594	7.9	1
5	Exergy Analysis and Parametric Improvement of the Combined Production of Sugar, Ethanol, and Electricity. <i>Green Energy and Technology</i> , <b>2013</b> , 185-214	0.6	1
4	Centralized power generation with carbon capture on decommissioned offshore petroleum platforms. <i>Energy Conversion and Management</i> , <b>2022</b> , 252, 115110	10.6	1
3	Sugarcane bagasse and vinasse conversion to electricity and biofuels: an exergoeconomic and environmental assessment. <i>International Journal of Exergy</i> , <b>2020</b> , 33, 44	1.2	1
2	Thermodynamic Evaluation Of Solid Oxide Fuel Cells Converting Biogas Into Hydrogen And Electricity <b>2021</b> , 24, 204-214		1
1	Techno-economic and environmental analysis of methanol and dimethyl ether production from syngas in a kraft pulp process. <i>Computers and Chemical Engineering</i> , <b>2022</b> , 107810	4	1