

Matteo Vincenzo Rocco

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,371
citations

304368

22
h-index

344852

36
g-index

51
all docs

51
docs citations

51
times ranked

1371
citing authors

#	ARTICLE	IF	CITATIONS
1	A multi-dimensional well-to-wheels analysis of passenger vehicles in different regions: Primary energy consumption, CO ₂ emissions, and economic cost. <i>Applied Energy</i> , 2016, 169, 197-209.	5.1	111
2	Advances in exergy analysis: a novel assessment of the Extended Exergy Accounting method. <i>Applied Energy</i> , 2014, 113, 1405-1420.	5.1	110
3	A novel energy efficient LNG/NGL recovery process using absorption and mixed refrigerant refrigeration cycles – Economic and exergy analyses. <i>Applied Thermal Engineering</i> , 2018, 132, 283-295.	3.0	86
4	Implementing absorption refrigeration cycle in lieu of DMR and C3MR cycles in the integrated NGL, LNG and NRU unit. <i>International Journal of Refrigeration</i> , 2017, 77, 20-38.	1.8	74
5	Low temperature techniques for natural gas purification and LNG production: An energy and exergy analysis. <i>Applied Energy</i> , 2016, 180, 546-559.	5.1	60
6	Thermoeconomic analysis and optimization of post-combustion CO ₂ recovery unit utilizing absorption refrigeration system for a natural-gas-fired power plant. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 1075-1084.	1.3	58
7	Optimization of mixed refrigerant systems in low temperature applications by means of group method of data handling (GMDH). <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 303-312.	2.1	53
8	Exergy Life Cycle Assessment of electricity production from Waste-to-Energy technology: A Hybrid Input-Output approach. <i>Applied Energy</i> , 2017, 194, 832-844.	5.1	47
9	A comprehensive approach toward utilizing mixed refrigerant and absorption refrigeration systems in an integrated cryogenic refrigeration process. <i>Journal of Cleaner Production</i> , 2018, 179, 495-514.	4.6	46
10	Structural, operational and economic optimization of cryogenic natural gas plant using NSGAI two-objective genetic algorithm. <i>Energy</i> , 2018, 159, 410-428.	4.5	46
11	Applying an integrated trigeneration incorporating hybrid energy systems for natural gas liquefaction. <i>Energy</i> , 2018, 149, 848-864.	4.5	45
12	Analysis of standard and innovative methods for allocating upstream and refinery GHG emissions to oil products. <i>Applied Energy</i> , 2017, 206, 372-381.	5.1	42
13	Modelling for power generation sector in Developing Countries: Case of Egypt. <i>Energy</i> , 2018, 165, 198-209.	4.5	42
14	Design and thermoeconomic analysis of a multi-effect desalination unit equipped with a cryogenic refrigeration system. <i>Energy Conversion and Management</i> , 2019, 202, 112208.	4.4	39
15	Fighting carbon leakage through consumption-based carbon emissions policies: Empirical analysis based on the World Trade Model with Bilateral Trades. <i>Applied Energy</i> , 2020, 274, 115301.	5.1	34
16	Evaluating energy embodied in national products through Input-Output analysis: Theoretical definition and practical application of international trades treatment methods. <i>Journal of Cleaner Production</i> , 2016, 139, 1449-1462.	4.6	32
17	Reviewing ISO Compliant Multifunctionality Practices in Environmental Life Cycle Modeling. <i>Energies</i> , 2020, 13, 3579.	1.6	30
18	Understanding the energy metabolism of World economies through the joint use of Production- and Consumption-based energy accountings. <i>Applied Energy</i> , 2018, 211, 590-603.	5.1	30

#	ARTICLE	IF	CITATIONS
19	Practical approaches for applying thermoeconomic analysis to energy conversion systems: Benchmarking and comparative application. <i>Energy Conversion and Management</i> , 2017, 150, 532-544.	4.4	26
20	Modelling road transport technologies in future scenarios: Theoretical comparison and application of Well-to-Wheels and Input-Output analyses. <i>Applied Energy</i> , 2018, 232, 583-597.	5.1	26
21	Internalization of human labor in embodied energy analysis: Definition and application of a novel approach based on Environmentally extended Input-Output analysis. <i>Applied Energy</i> , 2016, 182, 590-601.	5.1	25
22	Integration of biomass-fueled power plant and MCFC-cryogenic CO ₂ separation unit for low-carbon power production: Thermodynamic and exergoeconomic comparative analysis. <i>Energy Conversion and Management</i> , 2020, 223, 113304.	4.4	25
23	Process design and thermoeconomic evaluation of a CO ₂ liquefaction process driven by waste exhaust heat recovery for an industrial CO ₂ capture and utilization plant. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 1585-1597.	2.0	25
24	Conceptual design, exergoeconomic analysis and multi-objective optimization for a novel integration of biomass-fueled power plant with MCFC-cryogenic CO ₂ separation unit for low-carbon power production. <i>Energy</i> , 2021, 227, 120511.	4.5	23
25	Exergy Life Cycle Assessment of soil erosion remediation technologies: an Italian case study. <i>Journal of Cleaner Production</i> , 2016, 112, 3007-3017.	4.6	21
26	A multi-layer energy modelling methodology to assess the impact of heat-electricity integration strategies: The case of the residential cooking sector in Italy. <i>Energy</i> , 2019, 170, 1249-1260.	4.5	20
27	Exergy based methods for economic and risk design optimization of energy systems: Application to a gas turbine. <i>Energy</i> , 2014, 74, 269-279.	4.5	19
28	Off-Design Modeling of Natural Gas Combined Cycle Power Plants: An Order Reduction by Means of Thermoeconomic Input-Output Analysis. <i>Entropy</i> , 2016, 18, 71.	1.1	18
29	Design and performance evaluation of solar cookers for developing countries: The case of Mutoyi, Burundi. <i>International Journal of Energy Research</i> , 2017, 41, 2206-2220.	2.2	17
30	An exergy-based approach to the joint economic and environmental impact assessment of possible photovoltaic scenarios: A case study at a regional level in Italy. <i>Ecological Modelling</i> , 2015, 318, 64-74.	1.2	15
31	Assessing the energy intensity of alternative chemical and cryogenic natural gas purification processes in LNG production. <i>Journal of Cleaner Production</i> , 2019, 208, 827-840.	4.6	15
32	Enhancing energy models with geo-spatial data for the analysis of future electrification pathways: The case of Tanzania. <i>Energy Strategy Reviews</i> , 2021, 34, 100614.	3.3	15
33	Thermoeconomic diagnosis and malfunction decomposition: Methodology improvement of the Thermoeconomic Input-Output Analysis (TIOA). <i>Energy Conversion and Management</i> , 2018, 157, 644-655.	4.4	14
34	Electrification pathways for Tanzania: Implications for the economy and the environment. <i>Journal of Cleaner Production</i> , 2020, 263, 121278.	4.6	14
35	Exergy and Thermoeconomic Analyses of Central Receiver Concentrated Solar Plants Using Air as Heat Transfer Fluid. <i>Energies</i> , 2016, 9, 885.	1.6	11
36	Development of functionalities for improved storage modelling in OSeMOSYS. <i>Energy</i> , 2020, 195, 117025.	4.5	11

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37	Improvement of solar flat-plate collector performance by optimum tilt angle and minimizing top heat loss coefficient using particle swarm optimization. <i>Energy Science and Engineering</i> , 2020, 8, 2771-2783.	1.9	10
38	Exergy Life Cycle Assessment of a Waste-to-Energy Plant. <i>Energy Procedia</i> , 2016, 104, 562-567.	1.8	9
39	Assessing energy and economic impacts of large-scale policy shocks based on Input-Output analysis: Application to Brexit. <i>Applied Energy</i> , 2020, 274, 115300.	5.1	9
40	Soft-linking bottom-up energy models with top-down input-output models to assess the environmental impact of future energy scenarios. <i>Modelling, Measurement and Control C: Energetics, Chemistry, Earth, Environmental and Biomedical Problems</i> , 2018, 79, 103-110.	0.1	7
41	Advancing the representation of reservoir hydropower in energy systems modelling: The case of Zambesi River Basin. <i>PLoS ONE</i> , 2021, 16, e0259876.	1.1	5
42	Primary Exergy Cost of Goods and Services. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016, , .	0.2	2
43	A Complementary Approach to Traditional Energy Balances for Assessing Energy Efficiency Measures in Final Uses: The Case of Space Heating and Cooling in Argentina. <i>Sustainability</i> , 2020, 12, 6563.	1.6	1
44	Environmental and Energy Implications of Meat Consumption Pathways in Sub-Saharan Africa. <i>Sustainability</i> , 2021, 13, 7075.	1.6	1
45	Comprehensive and Integrated Impact Assessment Framework for Development Policies Evaluation: Definition and Application to Kenyan Coffee Sector. <i>Energies</i> , 2022, 15, 3071.	1.6	1
46	Exergy based Input-Output analysis. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016, , 61-90.	0.2	0
47	Accounting for Energy-Resources use by Thermodynamics. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016, , 43-60.	0.2	0
48	Internalization of human labour in Input-Output analysis. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016, , 91-100.	0.2	0
49	Review of Resources Accounting Methods. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016, , 9-41.	0.2	0
50	Improvement of Energy Efficiency in Gas Condensate Stabilization Unit: Process Optimization Through Exergy Analysis. , 2022, , .		0