Matteo Vincenzo Rocco

List of Publications by Year
in descending order

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50	1,371	304368	344852
papers	citations	22 h-index	36 g-index

51	51	51	1371
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improvement of Energy Efficiency in Gas Condensate Stabilization Unit: Process Optimization Through Exergy Analysis. , 2022, , .		0
2	Comprehensive and Integrated Impact Assessment Framework for Development Policies Evaluation: Definition and Application to Kenyan Coffee Sector. Energies, 2022, 15, 3071.	1.6	1
3	Enhancing energy models with geo-spatial data for the analysis of future electrification pathways: The case of Tanzania. Energy Strategy Reviews, 2021, 34, 100614.	3.3	15
4	Process design and thermoeconomic evaluation of a CO2 liquefaction process driven by waste exhaust heat recovery for an industrial CO2 capture and utilization plant. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1585-1597.	2.0	25
5	Environmental and Energy Implications of Meat Consumption Pathways in Sub-Saharan Africa. Sustainability, 2021, 13, 7075.	1.6	1
6	Conceptual design, exergoeconomic analysis and multi-objective optimization for a novel integration of biomass-fueled power plant with MCFC-cryogenic CO2 separation unit for low-carbon power production. Energy, 2021, 227, 120511.	4.5	23
7	Advancing the representation of reservoir hydropower in energy systems modelling: The case of Zambesi River Basin. PLoS ONE, 2021, 16, e0259876.	1.1	5
8	Reviewing ISO Compliant Multifunctionality Practices in Environmental Life Cycle Modeling. Energies, 2020, 13, 3579.	1.6	30
9	Integration of biomass-fueled power plant and MCFC-cryogenic CO2 separation unit for low-carbon power production: Thermodynamic and exergoeconomic comparative analysis. Energy Conversion and Management, 2020, 223, 113304.	4.4	25
10	A Complementary Approach to Traditional Energy Balances for Assessing Energy Efficiency Measures in Final Uses: The Case of Space Heating and Cooling in Argentina. Sustainability, 2020, 12, 6563.	1.6	1
11	Assessing energy and economic impacts of large-scale policy shocks based on Input-Output analysis: Application to Brexit. Applied Energy, 2020, 274, 115300.	5.1	9
12	Fighting carbon leakage through consumption-based carbon emissions policies: Empirical analysis based on the World Trade Model with Bilateral Trades. Applied Energy, 2020, 274, 115301.	5.1	34
13	Development of functionalities for improved storage modelling in OSeMOSYS. Energy, 2020, 195, 117025.	4.5	11
14	Improvement of solar flatâ€plate collector performance by optimum tilt angle and minimizing top heat loss coefficient using particle swarm optimization. Energy Science and Engineering, 2020, 8, 2771-2783.	1.9	10
15	Electrification pathways for Tanzania: Implications for the economy and the environment. Journal of Cleaner Production, 2020, 263, 121278.	4.6	14
16	Design and thermoeconomic analysis of a multi-effect desalination unit equipped with a cryogenic refrigeration system. Energy Conversion and Management, 2019, 202, 112208.	4.4	39
17	A multi-layer energy modelling methodology to assess the impact of heat-electricity integration strategies: The case of the residential cooking sector in Italy. Energy, 2019, 170, 1249-1260.	4.5	20
18	Assessing the energy intensity of alternative chemical and cryogenic natural gas purification processes in LNG production. Journal of Cleaner Production, 2019, 208, 827-840.	4.6	15

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19	Thermoeconomic analysis and optimization of postâ€combustion CO₂ recovery unit utilizing absorption refrigeration system for a naturalâ€gasâ€fired power plant. Environmental Progress and Sustainable Energy, 2018, 37, 1075-1084.	1.3	58
20	Thermoeconomic diagnosis and malfunction decomposition: Methodology improvement of the Thermoeconomic Input-Output Analysis (TIOA). Energy Conversion and Management, 2018, 157, 644-655.	4.4	14
21	A comprehensive approach toward utilizing mixed refrigerant and absorption refrigeration systems in an integrated cryogenic refrigeration process. Journal of Cleaner Production, 2018, 179, 495-514.	4.6	46
22	A novel energy efficient LNG/NGL recovery process using absorption and mixed refrigerant refrigeration cycles â€“ Economic and exergy analyses. Applied Thermal Engineering, 2018, 132, 283-295.	3.0	86
23	Applying an integrated trigeneration incorporating hybrid energy systems for natural gas liquefaction. Energy, 2018, 149, 848-864.	4.5	45
24	Modelling for power generation sector in Developing Countries: Case of Egypt. Energy, 2018, 165, 198-209.	4.5	42
25	Modelling road transport technologies in future scenarios: Theoretical comparison and application of Well-to-Wheels and Input-Output analyses. Applied Energy, 2018, 232, 583-597.	5.1	26
26	Structural, operational and economic optimization of cryogenic natural gas plant using NSGAII two-objective genetic algorithm. Energy, 2018, 159, 410-428.	4.5	46
27	Understanding the energy metabolism of World economies through the joint use of Production- and Consumption-based energy accountings. Applied Energy, 2018, 211, 590-603.	5.1	30
28	Soft-linking bottom-up energy models with top-down input-output models to assess the environmental impact of future energy scenarios. Modelling, Measurement and Control C: Energetics, Chemistry, Earth, Environmental and Biomedical Problems, 2018, 79, 103-110.	0.1	7
29	Implementing absorption refrigeration cycle in lieu of DMR and C3MR cycles in the integrated NGL, LNG and NRU unit. International Journal of Refrigeration, 2017, 77, 20-38.	1.8	74
30	Practical approaches for applying thermoeconomic analysis to energy conversion systems: Benchmarking and comparative application. Energy Conversion and Management, 2017, 150, 532-544.	4.4	26
31	Analysis of standard and innovative methods for allocating upstream and refinery GHG emissions to oil products. Applied Energy, 2017, 206, 372-381.	5.1	42
32	Design and performance evaluation of solar cookers for developing countries: The case of Mutoyi, Burundi. International Journal of Energy Research, 2017, 41, 2206-2220.	2.2	17
33	Exergy Life Cycle Assessment of electricity production from Waste-to-Energy technology: A Hybrid Input-Output approach. Applied Energy, 2017, 194, 832-844.	5.1	47
34	Off-Design Modeling of Natural Gas Combined Cycle Power Plants: An Order Reduction by Means of Thermoeconomic Inputâ€“Output Analysis. Entropy, 2016, 18, 71.	1.1	18
35	Exergy and Thermoeconomic Analyses of Central Receiver Concentrated Solar Plants Using Air as Heat Transfer Fluid. Energies, 2016, 9, 885.	1.6	11
36	Exergy Life Cycle Assessment of a Waste-to-Energy Plant. Energy Procedia, 2016, 104, 562-567.	1.8	9

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37	Low temperature techniques for natural gas purification and LNG production: An energy and exergy analysis. Applied Energy, 2016, 180, 546-559.	5.1	60
38	Primary Exergy Cost of Goods and Services. SpringerBriefs in Applied Sciences and Technology, 2016, , .	0.2	2
39	Exergy based Input-Output analysis. SpringerBriefs in Applied Sciences and Technology, 2016, , 61-90.	0.2	0
40	Accounting for Energy-Resources use by Thermodynamics. SpringerBriefs in Applied Sciences and Technology, 2016, , 43-60.	0.2	0
41	Internalization of human labour in Input-Output analysis. SpringerBriefs in Applied Sciences and Technology, 2016, , 91-100.	0.2	0
42	Internalization of human labor in embodied energy analysis: Definition and application of a novel approach based on Environmentally extended Input-Output analysis. Applied Energy, 2016, 182, 590-601.	5.1	25
43	Evaluating energy embodied in national products through Input-Output analysis: Theoretical definition and practical application of international trades treatment methods. Journal of Cleaner Production, 2016, 139, 1449-1462.	4.6	32
44	Review of Resources Accounting Methods. SpringerBriefs in Applied Sciences and Technology, 2016, , 9-41.	0.2	0
45	A multi-dimensional well-to-wheels analysis of passenger vehicles in different regions: Primary energy consumption, CO2 emissions, and economic cost. Applied Energy, 2016, 169, 197-209.	5.1	111
46	Exergy Life Cycle Assessment of soil erosion remediation technologies: an Italian case study. Journal of Cleaner Production, 2016, 112, 3007-3017.	4.6	21
47	Optimization of mixed refrigerant systems in low temperature applications by means of group method of data handling (GMDH). Journal of Natural Gas Science and Engineering, 2015, 26, 303-312.	2.1	53
48	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. Ecological Modelling, 2015, 318, 64-74.	1.2	15
49	Advances in exergy analysis: a novel assessment of the Extended Exergy Accounting method. Applied Energy, 2014, 113, 1405-1420.	5.1	110
50	Exergy based methods for economic and risk design optimization of energy systems: Application to a gas turbine. Energy, 2014, 74, 269-279.	4.5	19