

Gianluca Coccia

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

762
citations

567247

15
h-index

552766

26
g-index

45
all docs

45
docs citations

45
times ranked

571
citing authors

#	ARTICLE	IF	CITATIONS
1	Adoption of nanofluids in low-enthalpy parabolic trough solar collectors: Numerical simulation of the yearly yield. <i>Energy Conversion and Management</i> , 2016, 118, 306-319.	9.2	103
2	Design, realization, and tests of a portable solar box cooker coupled with an erythritol-based PCM thermal energy storage. <i>Solar Energy</i> , 2020, 201, 530-540.	6.1	71
3	Design, manufacture, and test of a prototype for a parabolic trough collector for industrial process heat. <i>Renewable Energy</i> , 2015, 74, 727-736.	8.9	65
4	Experimental validation of a high-temperature solar box cooker with a solar-salt-based thermal storage unit. <i>Solar Energy</i> , 2018, 170, 1016-1025.	6.1	52
5	Design, manufacturing, and test of a high concentration ratio solar box cooker with multiple reflectors. <i>Solar Energy</i> , 2017, 155, 781-792.	6.1	48
6	Correlations of thermal conductivity for liquid refrigerants at atmospheric pressure or near saturation. <i>International Journal of Refrigeration</i> , 2014, 45, 168-176.	3.4	32
7	Mathematical modeling of a prototype of parabolic trough solar collector. <i>Journal of Renewable and Sustainable Energy</i> , 2012, 4, 023110.	2.0	27
8	Artificial-neural-network-based model predictive control to exploit energy flexibility in multi-energy systems comprising district cooling. <i>Energy</i> , 2021, 222, 119958.	8.8	27
9	Saturated Pressure Measurements of <i>trans</i> -1-Chloro-3,3,3-trifluoroprop-1-ene (R1233zd(E)). <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2496-2500.	1.9	25
10	Design, manufacture and test of a low-cost solar cooker with high-performance light-concentrating lens. <i>Solar Energy</i> , 2021, 224, 1028-1039.	6.1	25
11	Performance Assessment of Data-Driven and Physical-Based Models to Predict Building Energy Demand in Model Predictive Controls. <i>Energies</i> , 2020, 13, 3125.	3.1	21
12	Vapor Phase $P_v T_x$ Measurements of Binary Blends of 2,3,3,3-Tetrafluoroprop-1-ene + Propane and <i>cis</i> -1,2,3,3,3-Pentafluoroprop-1-ene + Propane. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 3346-3354.	1.9	19
13	A new equation for the surface tension of carboxylic acids. <i>Fluid Phase Equilibria</i> , 2016, 417, 229-236.	2.5	17
14	Vapor Phase $P^{1/2} T_x$ Measurements of Binary Blends of 2,3,3,3-Tetrafluoroprop-1-ene + Isobutane and <i>trans</i> -1,3,3,3-Tetrafluoroprop-1-ene + Isobutane. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 3577-3584.	1.9	16
15	Thermal conductivity of nanofluids: A review of the existing correlations and a scaled semi-empirical equation. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111573.	16.4	16
16	A semi-empirical correlation for the estimation of the second virial coefficients of refrigerants. <i>International Journal of Refrigeration</i> , 2016, 68, 242-251.	3.4	15
17	Surface tension of silanes: A new equation. <i>Fluid Phase Equilibria</i> , 2016, 418, 88-93.	2.5	15
18	Demand side management analysis of a supermarket integrated HVAC, refrigeration and water loop heat pump system. <i>Applied Thermal Engineering</i> , 2019, 152, 543-550.	6.0	15

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19	Correlations for liquid thermal conductivity of low GWP refrigerants in the reduced temperature range 0.4 to 0.9 from saturation line to 70ÂMPa. International Journal of Refrigeration, 2020, 117, 358-368.	3.4	14
20	Compressed Liquid Density and Vapor Phase <i>PvT</i> Measurements of <i>cis</i> -1,2,3,3,3-Pentafluoroprop-1-ene (R1225ye(Z)). Journal of Chemical & Engineering Data, 2015, 60, 3333-3340.	1.9	13
21	Equations for the surface tension of low GWP halogenated alkene refrigerants and their blends. International Journal of Refrigeration, 2018, 86, 410-421.	3.4	12
22	Potential of District Cooling Systems: A Case Study on Recovering Cold Energy from Liquefied Natural Gas Vaporization. Energies, 2019, 12, 3027.	3.1	11
23	Experimental Analysis of Nucleation Triggering in a Thermal Energy Storage Based on Xylitol Used in a Portable Solar Box Cooker. Energies, 2021, 14, 5981.	3.1	11
24	Vapor Phase <i>PvTx</i> Measurements of Binary Blends of <i>trans</i> -1-Chloro-3,3,3-trifluoroprop-1-ene + Isobutane and <i>cis</i> -1,3,3,3-Tetrafluoroprop-1-ene + Isobutane. Journal of Chemical & Engineering Data, 2018, 63, 169-177.	1.9	10
25	Determination of the Boyle temperature of pure gases using artificial neural networks. Fluid Phase Equilibria, 2019, 493, 36-42.	2.5	10
26	Vapor phase and two-phase <i>PvTz</i> measurements of difluoromethane+2,3,3,3-tetrafluoroprop-1-ene. Journal of Chemical Thermodynamics, 2020, 141, 105966.	2.0	10
27	Solid-liquid equilibria for the R32+R1234ze(E) binary system. International Journal of Refrigeration, 2019, 107, 128-134.	3.4	9
28	Energy Flexibility as Additional Energy Source in Multi-Energy Systems with District Cooling. Energies, 2021, 14, 519.	3.1	7
29	A modified Kardos equation for the thermal conductivity of refrigerants. Journal of Theoretical and Computational Chemistry, 2018, 17, 1850012.	1.8	6
30	Proposal of a non-linear curve for reporting the performance of solar cookers. Renewable Energy, 2022, 191, 110-121.	8.9	6
31	Artificial neural network modelling of liquid thermal conductivity for alcohols. Physics and Chemistry of Liquids, 2018, 56, 363-380.	1.2	5
32	Artificial Neural Network Modeling of Liquid Thermal Conductivity for alkanes, ketones and silanes. Journal of Physics: Conference Series, 2017, 923, 012054.	0.4	3
33	Surface tension calculation from liquid viscosity data of silanes. Fluid Phase Equilibria, 2018, 463, 11-17.	2.5	3
34	Vapor-liquid equilibrium of binary systems containing low GWP refrigerants with cubic equations of state. Energy Procedia, 2018, 148, 1246-1253.	1.8	3
35	Artificial neural network for the second virial coefficient of organic and inorganic compounds: An ANN for B of organic and inorganic compounds. Chemical Engineering Communications, 2018, 205, 1077-1095.	2.6	3
36	New Equation for the Liquid Viscosity of Silanes. Journal of Thermophysics and Heat Transfer, 2017, 31, 832-840.	1.6	2

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37	Use of an Indoor Solar Flash Test Device to Evaluate Production Loss Associated to Specific Defects on Photovoltaic Modules. International Journal of Design and Nature and Ecodynamics, 2020, 15, 639-646.	0.5	2
38	Experimental characterization of a solar cooker with thermal energy storage based on solar salt. Journal of Physics: Conference Series, 2017, 923, 012048.	0.4	1
39	Mathematical Modeling. SpringerBriefs in Applied Sciences and Technology, 2016, , 13-39.	0.4	1
40	Receiver. SpringerBriefs in Applied Sciences and Technology, 2016, , 69-80.	0.4	0