Gianluca Coccia

List of Publications by Year
in descending order

40 papers	762 citations	567281 15 h-index	552781 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. Energy Conversion and Management, 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. Solar Energy, 2020, 201, 530-540.	6.1	71
3	Design, manufacture, and test of a prototype for a parabolic trough collector for industrial process heat. Renewable Energy, 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. Solar Energy, 2018, 170, 1016-1025.	6.1	52
5	Design, manufacturing, and test of a high concentration ratio solar box cooker with multiple reflectors. Solar Energy, 2017, 155, 781-792.	6.1	48
6	Correlations of thermal conductivity for liquid refrigerants at atmospheric pressure or near saturation. International Journal of Refrigeration, 2014, 45, 168-176.	3.4	32
7	Mathematical modeling of a prototype of parabolic trough solar collector. Journal of Renewable and Sustainable Energy, 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. Energy, 2021, 222, 119958.	8.8	27
9	Saturated Pressure Measurements of trans-1-Chloro-3,3,3-trifluoroprop-1-ene (R1233zd(E)). Journal of Chemical & Engineering Data, 2017, 62, 2496-2500.	1.9	25
10	Design, manufacture and test of a low-cost solar cooker with high-performance light-concentrating lens. Solar Energy, 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. Energies, 2020, 13, 3125.	3.1	21
12	Vapor Phase PvTx Measurements of Binary Blends of 2,3,3,3-Tetrafluoroprop-1-ene + Propane and cis-1,2,3,3,3-Pentafluoroprop-1-ene + Propane. Journal of Chemical & Engineering Data, 2016, 61, 3346-3354.	1.9	19
13	A new equation for the surface tension of carboxylic acids. Fluid Phase Equilibria, 2016, 417, 229-236.	2.5	17
14	Vapor Phase PÎ½Tx Measurements of Binary Blends of 2,3,3,3-Tetrafluoroprop-1-ene + Isobutane and trans-1,3,3,3-Tetrafluoroprop-1-ene + Isobutane. Journal of Chemical & Engineering Data, 2017, 62, 3577-3584.	1.9	16
15	Thermal conductivity of nanofluids: A review of the existing correlations and a scaled semi-empirical equation. Renewable and Sustainable Energy Reviews, 2021, 151, 111573.	16.4	16
16	A semi-empirical correlation for the estimation of the second virial coefficients of refrigerants. International Journal of Refrigeration, 2016, 68, 242-251.	3.4	15
17	Surface tension of silanes: A new equation. Fluid Phase Equilibria, 2016, 418, 88-93.	2.5	15
18	Demand side management analysis of a supermarket integrated HVAC, refrigeration and water loop heat pump system. Applied Thermal Engineering, 2019, 152, 543-550.	6.0	15

#	Article	IF	Citations
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 PvT Measurements of cis-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 PvTx Measurements of Binary Blends of trans-1-Chloro-3,3,3-trifluoroprop-1-ene + Isobutane and cis-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 PvTz measurements of difluoromethaneâ€¯+â€¯2,3,3,3-tetrafluoroprop-1-ene. Journal of Chemical Thermodynamics, 2020, 141, 105966.	2.0	10
27	Solidâ€“liquid equilibria for the R32â€¯+â€¯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

#	Article	IF	Citations
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