

Vincenzo Bianco

List of Publications by Year in descending order

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82
papers

3,284
citations

218592

26
h-index

149623

56
g-index

84
all docs

84
docs citations

84
times ranked

2863
citing authors

#	ARTICLE	IF	CITATIONS
1	Electricity consumption forecasting in Italy using linear regression models. <i>Energy</i> , 2009, 34, 1413-1421.	4.5	455
2	Numerical investigation of nanofluids forced convection in circular tubes. <i>Applied Thermal Engineering</i> , 2009, 29, 3632-3642.	3.0	386
3	An investigation of the thermal performance of cylindrical heat pipes using nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 376-383.	2.5	216
4	Numerical investigation on nanofluids turbulent convection heat transfer inside a circular tube. <i>International Journal of Thermal Sciences</i> , 2011, 50, 341-349.	2.6	196
5	Heating and cooling building energy demand evaluation; a simplified model and a modified degree days approach. <i>Applied Energy</i> , 2014, 128, 217-229.	5.1	170
6	Thermal performance of flat-shaped heat pipes using nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 1438-1445.	2.5	150
7	Analysis and forecasting of nonresidential electricity consumption in Romania. <i>Applied Energy</i> , 2010, 87, 3584-3590.	5.1	113
8	Entropy generation analysis of turbulent convection flow of Al ₂ O ₃ -water nanofluid in a circular tube subjected to constant wall heat flux. <i>Energy Conversion and Management</i> , 2014, 77, 306-314.	4.4	111
9	Performance analysis of turbulent convection heat transfer of Al ₂ O ₃ water-nanofluid in circular tubes at constant wall temperature. <i>Energy</i> , 2014, 77, 403-413.	4.5	90
10	Analysis and future outlook of natural gas consumption in the Italian residential sector. <i>Energy Conversion and Management</i> , 2014, 87, 754-764.	4.4	84
11	Scenario analysis of nonresidential natural gas consumption in Italy. <i>Applied Energy</i> , 2014, 113, 392-403.	5.1	78
12	Understanding energy consumption and carbon emissions in Europe: A focus on inequality issues. <i>Energy</i> , 2019, 170, 120-130.	4.5	77
13	Enhancement of heat transfer and entropy generation analysis of nanofluids turbulent convection flow in square section tubes. <i>Nanoscale Research Letters</i> , 2011, 6, 252.	3.1	76
14	Numerical analysis of the Al ₂ O ₃ -water nanofluid forced laminar convection in an asymmetric heated channel for application in flat plate PV/T collector. <i>Renewable Energy</i> , 2018, 116, 9-21.	4.3	75
15	Historical trends and current state of heating and cooling degree days in Italy. <i>Energy Conversion and Management</i> , 2015, 90, 323-335.	4.4	70
16	Estimation of primary energy savings by using heat pumps for heating purposes in the residential sector. <i>Applied Thermal Engineering</i> , 2017, 114, 938-947.	3.0	56
17	Phase-change materials for thermal management of electronic devices. <i>Applied Thermal Engineering</i> , 2022, 214, 118839.	3.0	45
18	Electrokinetic framework of dielectrophoretic deposition devices. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	43

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19	A comparison of the application of RSM and LES turbulence models in the numerical simulation of thermal and flow patterns in a double-circuit Ranque-Hilsch vortex tube. Applied Thermal Engineering, 2016, 106, 1244-1256.	3.0	43
20	Modeling energy consumption and efficiency measures in the Italian hotel sector. Energy and Buildings, 2017, 149, 329-338.	3.1	42
21	Numerical Simulation of Water/Al ₂ O ₃ Nanofluid Turbulent Convection. Advances in Mechanical Engineering, 2010, 2, 976254.	0.8	41
22	Numerical investigation of transient thermal and fluiddynamic fields in an executive aircraft cabin. Applied Thermal Engineering, 2009, 29, 3418-3425.	3.0	38
23	Numerical investigation of a double-circuit Ranque-Hilsch vortex tube. International Journal of Thermal Sciences, 2015, 89, 272-282.	2.6	38
24	Analysis of the local entropy generation in a double-circuit vortex tube. Applied Thermal Engineering, 2018, 130, 1391-1403.	3.0	34
25	Implementation of a cogeneration plant for a food processing facility. A case study. Applied Thermal Engineering, 2016, 102, 500-512.	3.0	32
26	Long term outlook of primary energy consumption of the Italian thermoelectric sector: Impact of fuel and carbon prices. Energy, 2015, 87, 153-164.	4.5	26
27	Experimental and numerical results from hybrid retrofitted photovoltaic panels. Energy Conversion and Management, 2013, 76, 634-644.	4.4	25
28	Effects of renewables deployment in the Spanish electricity generation sector. Utilities Policy, 2019, 56, 72-81.	2.1	25
29	Analysis of electricity consumption in the tourism sector. A decomposition approach. Journal of Cleaner Production, 2020, 248, 119286.	4.6	25
30	Second Law Analysis of Al ₂ O ₃ -Water Nanofluid Turbulent Forced Convection in a Circular Cross Section Tube with Constant Wall Temperature. Advances in Mechanical Engineering, 2013, 5, 920278.	0.8	22
31	Analysis of energy demand in residential buildings for different climates by means of dynamic simulation. International Journal of Ambient Energy, 2016, 37, 108-120.	1.4	22
32	Life-cycle approach to the estimation of energy efficiency measures in the buildings sector. Applied Energy, 2020, 264, 114745.	5.1	22
33	Prospects and characteristics of thermal and electrochemical energy storage systems. Journal of Energy Storage, 2021, 44, 103443.	3.9	22
34	Assessing the Quality of Natural Gas Consumption Forecasting: An Application to the Italian Residential Sector. Energies, 2017, 10, 1879.	1.6	20
35	Pathways to electric mobility integration in the Italian automotive sector. Energy, 2021, 221, 119882.	4.5	18
36	Current situation and future perspectives of European natural gas sector. Frontiers in Energy, 2015, 9, 1-6.	1.2	17

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37	Impact of the phase out of French nuclear reactors on the Italian power sector. <i>Energy</i> , 2018, 150, 722-734.	4.5	17
38	Supporting energy efficiency measures in the residential sector. The case of on-bill schemes. <i>Energy Reports</i> , 2021, 7, 4298-4307.	2.5	16
39	Selective Parallel Integration of Individual Metallic Single-Walled Carbon Nanotubes from Heterogeneous Solutions. <i>Langmuir</i> , 2010, 26, 10419-10424.	1.6	14
40	Numerical investigation of an inclined rectangular cavity for ventilated roofs applications. <i>Thermal Science and Engineering Progress</i> , 2018, 6, 426-435.	1.3	14
41	A novel steady-state approach for the analysis of gas-burner supplemented direct expansion solar assisted heat pumps. <i>Solar Energy</i> , 2013, 96, 227-238.	2.9	13
42	CFD analysis and design optimization of an air manifold for a biomass boiler. <i>Renewable Energy</i> , 2021, 163, 2018-2028.	4.3	13
43	Impact of wall discretization on the modeling of heating/cooling energy consumption of residential buildings. <i>Energy Efficiency</i> , 2016, 9, 95-108.	1.3	12
44	The impact of the national assessment exercises on self-citation rate and publication venue: an empirical investigation on the engineering academic sector in Italy. <i>Scientometrics</i> , 2018, 117, 997-1022.	1.6	12
45	Modelling a household tariff for reducing sectoral cross-subsidies in the Russian power market. <i>Energy</i> , 2020, 213, 118725.	4.5	12
46	Analysis of Electricity and Natural Gas Security. A Case Study for Germany, France, Italy and Spain. <i>Energies</i> , 2022, 15, 1000.	1.6	12
47	Addressing rising energy needs of megacities – Case study of Greater Cairo. <i>Energy and Buildings</i> , 2021, 236, 110789.	3.1	11
48	Modelling the deployment of energy efficiency measures for the residential sector. The case of Italy. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101777.	1.7	11
49	Novel transonic nozzle for Ranque-Hilsch vortex tube. <i>International Journal of Heat and Mass Transfer</i> , 2021, 180, 121801.	2.5	10
50	Overview of the Italian natural gas sector. <i>International Journal of Energy Sector Management</i> , 2018, 12, 151-168.	1.2	9
51	Business models for supporting energy renovation in residential buildings. The case of the on-bill programs. <i>Energy Reports</i> , 2022, 8, 2496-2507.	2.5	9
52	Analysis of technology diffusion policies for renewable energy. The case of the Italian solar photovoltaic sector. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 46, 101250.	1.7	8
53	Inverse cycles modeling without refrigerant property specification. <i>International Journal of Refrigeration</i> , 2013, 36, 1716-1729.	1.8	7
54	Heat pumps for buildings heating: Energy, environmental, and economic issues. <i>Energy and Environment</i> , 2020, 31, 116-129.	2.7	7

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55	Thermal behavior evaluation of ventilated roof under variable solar radiation. International Journal of Heat and Technology, 2016, 34, S346-S350.	0.3	7
56	Numerical investigation on the forced laminar convection heat transfer of Al ₂ O ₃ -water nanofluid within a three-dimensional asymmetric heated channel. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1132-1152.	1.6	6
57	An innovative approach to local solar energy planning in Riva Trigoso, Italy. Journal of Building Engineering, 2020, 27, 100968.	1.6	6
58	Energy, economic and environmental assessment of the utilization of heat pumps for buildings heating in the Italian residential sector. International Journal of Heat and Technology, 2017, 35, S117-S122.	0.3	6
59	Numerical investigation of turbulent flow within a channel with chamfered edge ribs in stream-wise direction. Heat and Mass Transfer, 2017, 53, 3211-3223.	1.2	5
60	Impact of the Utilization of Heat Pumps for Buildings Heating in the Italian Power Market. , 2018, , .		5
61	Analysis of the Efficiency of Using Heat Exchangers with Porous Inserts in Heat and Gas Supply Systems. Energies, 2020, 13, 5854.	1.6	5
62	Financial and energy performance analysis of efficiency measures in residential buildings. A probabilistic approach. Energy, 2021, 236, 121491.	4.5	5
63	The Future of the Italian Electricity Generation Sector. An Analysis of the Possible Strategic Models. Foresight and STI Governance, 2018, 12, 20-28.	0.6	5
64	A clear sky physical based solar radiation decomposition model. Thermal Science and Engineering Progress, 2018, 6, 323-329.	1.3	4
65	Forecasting Energy Consumption in the EU Residential Sector. International Journal of Environmental Research and Public Health, 2020, 17, 2259.	1.2	4
66	Thermal behavior evaluation of ventilated roof under summer and winter conditions. International Journal of Heat and Technology, 2017, 35, S353-S360.	0.3	4
67	Electrification of the residential heat demand: An analysis of the power market potential to accommodate heat pumps. Thermal Science and Engineering Progress, 2022, 27, 101173.	1.3	4
68	COMPUTATIONAL FLUID DYNAMICS MODELING OF DEVELOPING FORCED LAMINAR CONVECTION FLOW OF AL ₂ O ₃ -WATER NANOFLUID IN A TWO-DIMENSIONAL RECTANGULAR SECTION CHANNEL. Journal of Enhanced Heat Transfer, 2018, 25, 387-398.	0.5	3
69	The impact of e-mobility on the Italian electricity system. Transportation Research Procedia, 2020, 48, 2031-2037.	0.8	1
70	SIMULATION OF LAMINAR CONVECTION FLOW OF AL ₂ O ₃ -WATER NANOFLUID IN AN ASYMMETRIC HEATED CHANNEL. , 2017, , .		1
71	Retrofitting for Improving Energy Efficiency: The Embodied Energy Relevance for Buildings's Thermal Insulation. , 2020, , .		1
72	Experimental and numerical studies of accumulation heat exchangers for thermal retrofitting of buildings. Energy and Buildings, 2022, 261, 111990.	3.1	1

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73	The Role of Non-Energy Impact Assessment in Boosting Energy Efficiency and Urban Regeneration Projects: The RenOnBill Project and Experiences from Liguria Region. <i>Energies</i> , 2022, 15, 4093.	1.6	1
74	Numerical Investigation of Forced Convection of Nanofluids in Channels. , 2008, , .		0
75	Numerical Investigation of Turbulent Convection in Al ₂ O ₃ /Water Nanofluid With Temperature Dependent Properties. , 2009, , .		0
76	Advanced Solar Technologies in Buildings. <i>International Journal of Photoenergy</i> , 2019, 2019, 1-2.	1.4	0
77	Application of PCMs to Improve Energy Efficiency in Residential Buildings. <i>Lecture Notes in Civil Engineering</i> , 2021, , 1-12.	0.3	0
78	RADIATION EFFECT ON TRANSIENT NATURAL CONVECTION IN VENTILATED ROOFS. , 2017, , .		0
79	Analysis of the European Energy Context: A Snapshot of the Natural Gas Sector. , 2017, , 233-264.		0
80	Analysis of the European Energy Context: A Snapshot of the Natural Gas Sector. , 2017, , 233-264.		0
81	Energy Demand, Efficiency Measures and Embodied Energy in the Italian Residential Sector. , 2018, , .		0
82	The Importance of Renewable Energy Systems in Meeting Rising Energy Needs of Megacities in a Sustainable Way: Case Study of Greater Cairo. , 2020, , .		0