

Angelo Zarrella

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

1,912
citations

26
h-index

42
g-index

80
ext. papers

2,268
ext. citations

5.9
avg. IF

5.43
L-index

#	Paper	IF	Citations
78	Investigation on Individual and Collective PV Self-Consumption for a Fifth Generation District Heating Network. <i>Energies</i> , 2022 , 15, 1022	3.1	3
77	Large scale energy analysis and renovation strategies for social housing in the historic city of Venice. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102041	4.7	1
76	Experimental study on the thermal imbalance and soil temperature recovery performance of horizontal stainless-steel ground heat exchanger. <i>Applied Thermal Engineering</i> , 2022 , 200, 117697	5.8	3
75	Analysis of the effect of icing on the thermal behavior of helical coil heat exchangers in surface water heat pump applications. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 183, 122074	4.9	1
74	Evaluation of the impact of input uncertainty on urban building energy simulations using uncertainty and sensitivity analysis. <i>Applied Energy</i> , 2022 , 311, 118691	10.7	2
73	Flow rate control in standing column wells: A flexible solution for reducing the energy use and peak power demand of the built environment. <i>Applied Energy</i> , 2022 , 313, 118774	10.7	0
72	Experimental tests on the performance of an Economic Model Predictive Control system in a lightweight building. <i>Applied Thermal Engineering</i> , 2022 , 118693	5.8	1
71	Development of a Modelica-based simplified building model for district energy simulations. <i>Journal of Physics: Conference Series</i> , 2021 , 2042, 012078	0.3	
70	An all-in-one machine coupled with a horizontal ground heat exchanger for the air-conditioning of a residential building. <i>Building and Environment</i> , 2021 , 207, 108558	6.5	0
69	Assessment of the Urban Heat Island Impact on Building Energy Performance at District Level with the EURECA Platform. <i>Climate</i> , 2021 , 9, 48	3.1	7
68	Italian prototype building models for urban scale building performance simulation. <i>Building and Environment</i> , 2021 , 192, 107590	6.5	25
67	Management of a district heating network using model predictive control with and without thermal storage. <i>Optimization and Engineering</i> , 2021 , 22, 1897	2.1	2
66	First Italian TRT database and significance of the geological setting evaluation in borehole heat exchanger sizing. <i>Geothermics</i> , 2021 , 94, 102098	4.3	3
65	Comparative Analysis between Dynamic and Quasi-Steady-State Methods at an Urban Scale on a Social-Housing District in Venice. <i>Energies</i> , 2021 , 14, 5164	3.1	4
64	EURECA: An open-source urban building energy modelling tool for the efficient evaluation of cities energy demand. <i>Renewable Energy</i> , 2021 , 173, 544-560	8.1	8
63	Development of g-functions for large diameter shallow bore helical ground heat exchangers. <i>Applied Thermal Engineering</i> , 2021 , 117620	5.8	1
62	Energy analysis of different configurations for a reversible ground source heat pump using a new flexible TRNSYS Type. <i>Applied Thermal Engineering</i> , 2021 , 197, 117413	5.8	4

61	Analysis of Retrofit Solutions of a Ground Source Heat Pump System: An Italian Case Study. <i>Energies</i> , 2020 , 13, 5680	3.1	5
60	A dynamic analysis of a SAGSHP system coupled to solar thermal collectors and photovoltaic-thermal panels under different climate conditions. <i>Energy Conversion and Management</i> , 2020 , 213, 112851	10.6	10
59	Increasing the energy flexibility of existing district heating networks through flow rate variations. <i>Applied Energy</i> , 2020 , 275, 115411	10.7	15
58	Techno-economic parametric analysis of large diameter shallow ground heat exchanger in California climates. <i>Energy and Buildings</i> , 2020 , 228, 110444	7	6
57	Analysis and application of a lumped-capacitance model for urban building energy modelling. <i>Sustainable Cities and Society</i> , 2020 , 63, 102450	10.1	15
56	All-air system and radiant floor for heating and cooling in residential buildings: A simulation-based analysis. <i>Science and Technology for the Built Environment</i> , 2020 , 26, 1397-1411	1.8	2
55	A sensitivity analysis on the heating and cooling energy flexibility of residential buildings. <i>Sustainable Cities and Society</i> , 2020 , 52, 101815	10.1	30
54	A revised capacitance resistance model for large diameter shallow bore ground heat exchanger. <i>Applied Thermal Engineering</i> , 2019 , 162, 114305	5.8	8
53	Simulation-Based Comparison Between the Thermal Behavior of Coaxial and Double U-Tube Borehole Heat Exchangers. <i>Energies</i> , 2019 , 12, 2321	3.1	13
52	The validation of a novel lumped parameter model for photovoltaic thermal hybrid solar collectors: a new TRNSYS type. <i>Energy Conversion and Management</i> , 2019 , 188, 414-428	10.6	17
51	A multi-objective optimization strategy to reduce correlation and uncertainty for thermal response test analysis. <i>Geothermics</i> , 2019 , 79, 176-187	4.3	15
50	A European Database of Building Energy Profiles to Support the Design of Ground Source Heat Pumps. <i>Energies</i> , 2019 , 12, 2496	3.1	9
49	Retrofit solutions for an historic building integrated with geothermal heat pumps. <i>E3S Web of Conferences</i> , 2019 , 111, 03055	0.5	1
48	Two software tools for facilitating the choice of ground source heat pumps by stakeholders and designers. <i>E3S Web of Conferences</i> , 2019 , 111, 06023	0.5	1
47	Archetype definition for analysing retrofit solutions in urban areas in Europe. <i>E3S Web of Conferences</i> , 2019 , 111, 03027	0.5	
46	Primary air treatment vs energy saving: comparison between different design solutions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 052001	0.4	
45	A new air handling unit system for residential buildings: experiment and simulation-based analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 052033	0.4	1
44	A comparison of numerical simulation methods analyzing the performance of a ground-coupled heat pump system. <i>Science and Technology for the Built Environment</i> , 2018 , 24, 502-512	1.8	4

43	Evaluating the cost of heat for end users in ultra low temperature district heating networks with booster heat pumps. <i>Energy</i> , 2018 , 153, 788-800	7.9	35
42	A Database for Climatic Conditions around Europe for Promoting GSHP Solutions. <i>Geosciences (Switzerland)</i> , 2018 , 8, 71	2.7	16
41	Application of artificial neural networks to near-instant construction of short-term g-functions. <i>Applied Thermal Engineering</i> , 2018 , 143, 910-921	5.8	15
40	Efficiency in Heating Operation of Low-Temperature Radiant Systems Working under Dynamic Conditions in Different Kinds of Buildings. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2399	2.6	5
39	The effect of discretization on the accuracy of two district heating network models based on finite-difference methods. <i>Energy Procedia</i> , 2018 , 149, 625-634	2.3	9
38	An evaluation of the suitability of lumped-capacitance models in calculating energy needs and thermal behaviour of buildings. <i>Energy and Buildings</i> , 2017 , 150, 447-465	7	38
37	EU project "cheap-GSHPs" the geexchange field laboratory. <i>Energy Procedia</i> , 2017 , 125, 511-519	2.3	4
36	Ground source heat pump systems in historical buildings: two Italian case studies. <i>Energy Procedia</i> , 2017 , 133, 183-194	2.3	13
35	A heat pump coupled with photovoltaic thermal hybrid solar collectors: A case study of a multi-source energy system. <i>Energy Conversion and Management</i> , 2017 , 151, 386-399	10.6	54
34	An appropriate use of the thermal response test for the design of energy foundation piles with U-tube circuits. <i>Energy and Buildings</i> , 2017 , 134, 259-270	7	34
33	A simulation-based analysis of variable flow pumping in ground source heat pump systems with different types of borehole heat exchangers: A case study. <i>Energy Conversion and Management</i> , 2017 , 131, 135-150	10.6	32
32	Energy performance and cost analysis of some borehole heat exchanger configurations with different heat-carrier fluids in mild climates. <i>Geothermics</i> , 2017 , 65, 158-169	4.3	17
31	Thermal Response Testing Results of Different Types of Borehole Heat Exchangers: An Analysis and Comparison of Interpretation Methods. <i>Energies</i> , 2017 , 10, 801	3.1	28
30	Thermal and electrical performance of an integrated PV-PCM system in double skin façades: A numerical study. <i>Solar Energy</i> , 2016 , 136, 112-124	6.8	83
29	Dynamic energy evaluation and glazing layers optimization of façade building with innovative integration of PV modules. <i>Energy and Buildings</i> , 2016 , 111, 468-478	7	20
28	ulti-Source Heat Pump Coupled with a Photovoltaic Thermal (PVT) Hybrid Solar Collectors Technology: a Case Study in Residential Application. <i>International Journal of Energy Production and Management</i> , 2016 , 1, 382-392	5.3	7
27	Use of Municipal Solid Waste Landfill as Heat Source of Heat Pump. <i>Energy Procedia</i> , 2016 , 101, 352-359	2.3	4
26	Long-term analysis of two GSHP systems using validated numerical models and proposals to optimize the operating parameters. <i>Energy and Buildings</i> , 2015 , 93, 50-64	7	34

25	Performance of heat pumps with direct expansion in vertical ground heat exchangers in heating mode. <i>Energy Conversion and Management</i> , 2015 , 95, 120-130	10.6	29
24	Empirical modeling of maps of geo-exchange potential for shallow geothermal energy at regional scale. <i>Geothermics</i> , 2015 , 57, 173-184	4.3	38
23	Analysis of operating modes of a ground source heat pump with short helical heat exchangers. <i>Energy Conversion and Management</i> , 2015 , 97, 351-361	10.6	45
22	An analysis of solar assisted ground source heat pumps in cold climates. <i>Energy Conversion and Management</i> , 2015 , 106, 660-675	10.6	108
21	A simplified mathematical model for transient simulation of thermal performance and energy assessment for active facades. <i>Energy and Buildings</i> , 2015 , 104, 97-107	7	23
20	Effect of axial heat transfer and atmospheric conditions on the energy performance of GSHP systems: A simulation-based analysis. <i>Applied Thermal Engineering</i> , 2015 , 78, 591-604	5.8	31
19	Analysis of Vertical Ground Heat Exchangers: The New CaRM Tool. <i>Energy Procedia</i> , 2015 , 81, 288-297	2.3	5
18	Solar Assisted Ground Source Heat Pump in Cold Climates. <i>Energy Procedia</i> , 2015 , 82, 623-629	2.3	14
17	Energetic and economic aspects of a heating and cooling district in a mild climate based on closed loop ground source heat pump. <i>Applied Thermal Engineering</i> , 2014 , 71, 895-904	5.8	33
16	Radiant floor cooling coupled with dehumidification systems in residential buildings: A simulation-based analysis. <i>Energy Conversion and Management</i> , 2014 , 85, 254-263	10.6	25
15	Evaluation of energy recovery of multiple skin facades: The approach of DIGITHON. <i>Energy and Buildings</i> , 2014 , 85, 337-345	7	10
14	Possible applications of ground coupled heat pumps in high geothermal gradient zones. <i>Energy and Buildings</i> , 2014 , 79, 12-22	7	12
13	Analysis of short helical and double U-tube borehole heat exchangers: A simulation-based comparison. <i>Applied Energy</i> , 2013 , 112, 358-370	10.7	75
12	The design and environmental evaluation of earth-to-air heat exchangers (EAHE). A literature review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 28, 107-116	16.2	88
11	Ground source heat pump performance in case of high humidity soil and yearly balanced heat transfer. <i>Energy Conversion and Management</i> , 2013 , 76, 956-970	10.6	17
10	Performance analysis of short helical borehole heat exchangers via integrated modelling of a borefield and a heat pump: A case study. <i>Applied Thermal Engineering</i> , 2013 , 61, 36-47	5.8	49
9	Thermal performance of two types of energy foundation pile: Helical pipe and triple U-tube. <i>Applied Thermal Engineering</i> , 2013 , 61, 301-310	5.8	127
8	Investigations on the influence of aquifers on the ground temperature in ground-source heat pump operation. <i>Applied Energy</i> , 2013 , 107, 350-363	10.7	47

7	Heat transfer analysis of short helical borehole heat exchangers. <i>Applied Energy</i> , 2013 , 102, 1477-1491	10.7	68
6	Design of borehole heat exchangers for ground-source heat pumps: A literature review, methodology comparison and analysis on the penalty temperature. <i>Energy and Buildings</i> , 2012 , 55, 369-379		59
5	DIGITHON: A numerical model for the thermal balance of rooms equipped with radiant systems. <i>Building and Environment</i> , 2012 , 57, 126-144	6.5	32
4	Short time step analysis of vertical ground-coupled heat exchangers: The approach of CaRM. <i>Renewable Energy</i> , 2011 , 36, 2357-2367	8.1	80
3	A computational capacity resistance model (CaRM) for vertical ground-coupled heat exchangers. <i>Renewable Energy</i> , 2010 , 35, 1537-1550	8.1	136
2	People's clothing behaviour according to external weather and indoor environment. <i>Building and Environment</i> , 2007 , 42, 3965-3973	6.5	91
1	New tools to support the designing of efficient and reliable ground source heat exchangers: the Cheap-GSHPs databases and maps. <i>Advances in Geosciences</i> , 2007 , 49, 47-55		3