

Ioan Sarbu

List of Publications by Citations

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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.

54 papers	1,595 citations	14 h-index	39 g-index
61 ext. papers	1,979 ext. citations	3.5 avg, IF	5.99 L-index

#	Paper	IF	Citations
54	A Comprehensive Review of Thermal Energy Storage. <i>Sustainability</i> , 2018 , 10, 191	3.6	368
53	General review of ground-source heat pump systems for heating and cooling of buildings. <i>Energy and Buildings</i> , 2014 , 70, 441-454	7	330
52	Review of solar refrigeration and cooling systems. <i>Energy and Buildings</i> , 2013 , 67, 286-297	7	190
51	A review on substitution strategy of non-ecological refrigerants from vapour compression-based refrigeration, air-conditioning and heat pump systems. <i>International Journal of Refrigeration</i> , 2014 , 46, 123-141	3.8	108
50	Review on heat transfer analysis in thermal energy storage using latent heat storage systems and phase change materials. <i>International Journal of Energy Research</i> , 2019 , 43, 29-64	4.5	96
49	Aspects of indoor environmental quality assessment in buildings. <i>Energy and Buildings</i> , 2013 , 60, 410-419	7	82
48	General review of solar-powered closed sorption refrigeration systems. <i>Energy Conversion and Management</i> , 2015 , 105, 403-422	10.6	67
47	Experimental and numerical research to assess indoor environment quality and schoolwork performance in university classrooms. <i>Building and Environment</i> , 2015 , 93, 141-154	6.5	56
46	A comprehensive review of solar thermoelectric cooling systems. <i>International Journal of Energy Research</i> , 2018 , 42, 395-415	4.5	45
45	Performance of an experimental ground-coupled heat pump system for heating, cooling and domestic hot-water operation. <i>Renewable Energy</i> , 2015 , 76, 148-159	8.1	33
44	A study of the performances of low-temperature heating systems. <i>Energy Efficiency</i> , 2015 , 8, 609-627	3	26
43	A Study of Energy Optimisation of Urban Water Distribution Systems Using Potential Elements. <i>Water (Switzerland)</i> , 2016 , 8, 593	3	22
42	Performance Evaluation of Radiator and Radiant Floor Heating Systems for an Office Room Connected to a Ground-Coupled Heat Pump. <i>Energies</i> , 2016 , 9, 228	3.1	21
41	Energy Savings Potential for Pumping Water in District Heating Stations. <i>Sustainability</i> , 2015 , 7, 5705-5715	3.6	20
40	Optimal design of urban water supply pipe networks. <i>Urban Water Journal</i> , 2016 , 13, 521-535	2.3	14
39	Experimental and numerical investigations of the energy efficiency of conventional air conditioning systems in cooling mode and comfort assurance in office buildings. <i>Energy and Buildings</i> , 2014 , 85, 45-58	7	14
38	Nodal Analysis of Urban Water Distribution Networks. <i>Water Resources Management</i> , 2014 , 28, 3143-3159	3.7	13

37	Performance Assessment of a Ground-coupled Heat Pump for an Office Room Heating using Radiator or Radiant Floor Heating Systems. <i>Procedia Engineering</i> , 2015 , 118, 88-100		13
36	Solar Radiation 2017 , 13-28		9
35	A review of modelling and optimisation techniques for district heating systems. <i>International Journal of Energy Research</i> , 2019 , 43, 6572	4.5	7
34	Ground-Source Heat Pump Systems 2016 , 71-128		6
33	Solar Thermal-Driven Cooling Systems 2017 , 241-313		5
32	Using Ground-Source Heat Pump Systems for Heating/Cooling of Buildings 2016 ,		5
31	Solar Refrigerating Systems. <i>Advanced Materials Research</i> , 2013 , 772, 581-586	0.5	4
30	Numerical simulation and prevention of water freezing in outdoor penstocks. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2001 , 39, 437-443	1.9	4
29	Solar Electric Cooling Systems 2017 , 315-346		3
28	Olfactory Comfort Assurance in Buildings 2011 ,		3
27	Heat Pump Heating and Cooling Systems 2016 , 129-165		3
26	Performance of Radiant Heating Systems of Low-Energy Buildings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 245, 032088	0.4	2
25	Numerical Simulation of the Laminar Forced Convective Heat Transfer between Two Concentric Cylinders. <i>Computation</i> , 2017 , 5, 25	2.2	2
24	Optimization of Insulation Design for Refrigerating Systems. <i>Applied Mechanics and Materials</i> , 2014 , 510, 202-207	0.3	2
23	DESIGNING A PILOT SEWAGE TREATMENT PLANT FOR SMALL LOCALITIES 2017 ,		2
22	Optimization of Path for Water Transmission and Distribution Systems. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 323-339	0.2	2
21	Substitution Strategy of Non-Ecological Refrigerants 2016 , 27-45		2
20	Optimization of Urban Water Distribution Networks Using Deterministic and Heuristic Techniques: Comprehensive Review. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2021 , 12, 03121001	1.5	2

19	Solar Water and Space-Heating Systems 2017 , 139-206		1
18	Determination of Neutral Point in Water Distribution Network Pipes with Variable Discharge on Route. <i>Advanced Materials Research</i> , 2014 , 909, 428-432	0.5	1
17	Influence of Heating Systems on Indoor Environmental Quality. <i>Applied Mechanics and Materials</i> , 2014 , 510, 208-214	0.3	1
16	A general analytical model for hydraulic computation of open channels with steady state uniform flow. <i>International Journal of Advanced and Applied Sciences</i> , 2018 , 5, 1-7	1.2	1
15	Vapour Compression-Based Heat Pump Systems 2016 , 7-25		1
14	Experimental Ground-Coupled Heat Pump Systems 2016 , 167-196		1
13	Hydraulic Simulation and Optimisation of Water Transmission and Distribution Systems 2021 , 629-797		1
12	Thermal Energy Storage 2021 , 559-627		0
11	Heat Distribution Systems in Buildings 2017 , 207-239		
10	Solar-Assisted Heat Pumps 2017 , 347-410		
9	Exploratory Research to Improve Energy-Efficiency of a Ground-Coupled Heat Pump Utilizing an Automatic Control Device of Circulation Pump Speed. <i>Energies</i> , 2020 , 13, 5016	3.1	
8	Numerical Modelling of Heat Transfer 2021 , 839-891		
7	Heat Pumps for Sustainable Heating and Cooling 2021 , 447-557		
6	Efficient Refrigeration and Air-Conditioning Systems 2021 , 209-327		
5	Modelling, Optimisation and Modernisation of Heating Systems 2021 , 87-208		
4	Solar Heating and Cooling Systems 2021 , 329-445		
3	Assurance of Indoor Environment Quality in Buildings 2021 , 25-85		
2	Sewage Treatment Plants 2021 , 799-816		

- 1 Hydraulic Calculation of Open Channels and Sewer Columns in Buildings **2021**, 817-838