

# Ioan Sarbu

## List of Publications by Year in Descending Order

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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	Numerical Modelling of Heat Transfer <b>2021</b> , 839-891		
53	Hydraulic Simulation and Optimisation of Water Transmission and Distribution Systems <b>2021</b> , 629-797		1
52	Thermal Energy Storage <b>2021</b> , 559-627		0
51	Heat Pumps for Sustainable Heating and Cooling <b>2021</b> , 447-557		
50	Optimization of Urban Water Distribution Networks Using Deterministic and Heuristic Techniques: Comprehensive Review. <i>Journal of Pipeline Systems Engineering and Practice</i> , <b>2021</b> , 12, 03121001	1.5	2
49	Efficient Refrigeration and Air-Conditioning Systems <b>2021</b> , 209-327		
48	Modelling, Optimisation and Modernisation of Heating Systems <b>2021</b> , 87-208		
47	Solar Heating and Cooling Systems <b>2021</b> , 329-445		
46	Assurance of Indoor Environment Quality in Buildings <b>2021</b> , 25-85		
45	Sewage Treatment Plants <b>2021</b> , 799-816		
44	Hydraulic Calculation of Open Channels and Sewer Columns in Buildings <b>2021</b> , 817-838		
43	Exploratory Research to Improve Energy-Efficiency of a Ground-Coupled Heat Pump Utilizing an Automatic Control Device of Circulation Pump Speed. <i>Energies</i> , <b>2020</b> , 13, 5016	3.1	
42	A review of modelling and optimisation techniques for district heating systems. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 6572	4.5	7
41	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> , <b>2019</b> , 43, 29-64	4.5	96
40	A comprehensive review of solar thermoelectric cooling systems. <i>International Journal of Energy Research</i> , <b>2018</b> , 42, 395-415	4.5	45
39	A Comprehensive Review of Thermal Energy Storage. <i>Sustainability</i> , <b>2018</b> , 10, 191	3.6	368
38	A general analytical model for hydraulic computation of open channels with steady state uniform flow. <i>International Journal of Advanced and Applied Sciences</i> , <b>2018</b> , 5, 1-7	1.2	1

37	Solar Water and Space-Heating Systems <b>2017</b> , 139-206		1
36	Heat Distribution Systems in Buildings <b>2017</b> , 207-239		
35	Solar Electric Cooling Systems <b>2017</b> , 315-346		3
34	Solar-Assisted Heat Pumps <b>2017</b> , 347-410		
33	Solar Radiation <b>2017</b> , 13-28		9
32	Solar Thermal-Driven Cooling Systems <b>2017</b> , 241-313		5
31	Performance of Radiant Heating Systems of Low-Energy Buildings. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 245, 032088	0.4	2
30	Numerical Simulation of the Laminar Forced Convective Heat Transfer between Two Concentric Cylinders. <i>Computation</i> , <b>2017</b> , 5, 25	2.2	2
29	DESIGNING A PILOT SEWAGE TREATMENT PLANT FOR SMALL LOCALITIES <b>2017</b> ,		2
28	Optimal design of urban water supply pipe networks. <i>Urban Water Journal</i> , <b>2016</b> , 13, 521-535	2.3	14
27	Using Ground-Source Heat Pump Systems for Heating/Cooling of Buildings <b>2016</b> ,		5
26	Heat Pump Heating and Cooling Systems <b>2016</b> , 129-165		3
25	Substitution Strategy of Non-Ecological Refrigerants <b>2016</b> , 27-45		2
24	Vapour Compression-Based Heat Pump Systems <b>2016</b> , 7-25		1
23	A Study of Energy Optimisation of Urban Water Distribution Systems Using Potential Elements. <i>Water (Switzerland)</i> , <b>2016</b> , 8, 593	3	22
22	Performance Evaluation of Radiator and Radiant Floor Heating Systems for an Office Room Connected to a Ground-Coupled Heat Pump. <i>Energies</i> , <b>2016</b> , 9, 228	3.1	21
21	Ground-Source Heat Pump Systems <b>2016</b> , 71-128		6
20	Experimental Ground-Coupled Heat Pump Systems <b>2016</b> , 167-196		1

19	A study of the performances of low-temperature heating systems. <i>Energy Efficiency</i> , <b>2015</b> , 8, 609-627	3	26
18	Experimental and numerical research to assess indoor environment quality and schoolwork performance in university classrooms. <i>Building and Environment</i> , <b>2015</b> , 93, 141-154	6.5	56
17	General review of solar-powered closed sorption refrigeration systems. <i>Energy Conversion and Management</i> , <b>2015</b> , 105, 403-422	10.6	67
16	Performance of an experimental ground-coupled heat pump system for heating, cooling and domestic hot-water operation. <i>Renewable Energy</i> , <b>2015</b> , 76, 148-159	8.1	33
15	Energy Savings Potential for Pumping Water in District Heating Stations. <i>Sustainability</i> , <b>2015</b> , 7, 5705-5713	3.8	20
14	Performance Assessment of a Ground-coupled Heat Pump for an Office Room Heating using Radiator or Radiant Floor Heating Systems. <i>Procedia Engineering</i> , <b>2015</b> , 118, 88-100		13
13	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> , <b>2014</b> , 46, 123-141	3.8	108
12	General review of ground-source heat pump systems for heating and cooling of buildings. <i>Energy and Buildings</i> , <b>2014</b> , 70, 441-454	7	330
11	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> , <b>2014</b> , 85, 45-58	7	14
10	Nodal Analysis of Urban Water Distribution Networks. <i>Water Resources Management</i> , <b>2014</b> , 28, 3143-3159	3.7	13
9	Optimization of Insulation Design for Refrigerating Systems. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 510, 202-207	0.3	2
8	Determination of Neutral Point in Water Distribution Network Pipes with Variable Discharge on Route. <i>Advanced Materials Research</i> , <b>2014</b> , 909, 428-432	0.5	1
7	Influence of Heating Systems on Indoor Environmental Quality. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 510, 208-214	0.3	1
6	Optimization of Path for Water Transmission and Distribution Systems. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 323-339	0.2	2
5	Review of solar refrigeration and cooling systems. <i>Energy and Buildings</i> , <b>2013</b> , 67, 286-297	7	190
4	Aspects of indoor environmental quality assessment in buildings. <i>Energy and Buildings</i> , <b>2013</b> , 60, 410-419		82
3	Solar Refrigerating Systems. <i>Advanced Materials Research</i> , <b>2013</b> , 772, 581-586	0.5	4
2	Olfactory Comfort Assurance in Buildings <b>2011</b> ,		3

- 1 Numerical simulation and prevention of water freezing in outdoor penstocks. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2001**, 39, 437-443 1.9 4