

# Michel Bernier

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

920  
citations

516710

16  
h-index

477307

29  
g-index

29  
all docs

29  
docs citations

29  
times ranked

623  
citing authors

#	ARTICLE	IF	CITATIONS
1	A semi-analytical method to generate g-functions for geothermal bore fields. International Journal of Heat and Mass Transfer, 2014, 70, 641-650.	4.8	124
2	Validity ranges of three analytical solutions to heat transfer in the vicinity of single boreholes. Geothermics, 2009, 38, 407-413.	3.4	116
3	A Multiple Load Aggregation Algorithm for Annual Hourly Simulations of GCHP Systems. HVAC and R Research, 2004, 10, 471-487.	0.6	92
4	A contribution towards the determination of g-functions using the finite line source. Applied Thermal Engineering, 2013, 51, 401-412.	6.0	89
5	Coupling of geothermal heat pumps with thermal solar collectors using double U-tube boreholes with two independent circuits. Applied Thermal Engineering, 2011, 31, 3066-3077.	6.0	68
6	Freezing of geothermal borehole surroundings: A numerical and experimental assessment with applications. Applied Energy, 2012, 98, 333-345.	10.1	63
7	A review of vertical ground heat exchanger sizing tools including an inter-model comparison. Renewable and Sustainable Energy Reviews, 2019, 110, 247-265.	16.4	44
8	Dynamic model of a hermetic reciprocating compressor in on/off cycling operation (Abbreviation: Tj ETQq0 0 0 rgBT /Overlock 10 Tf	6.0	39
9	Thermal capacity effects in borehole ground heat exchangers. Energy and Buildings, 2013, 67, 352-364.	6.7	37
10	Development of a novel spiral coil ground heat exchanger model considering axial effects. Applied Thermal Engineering, 2015, 84, 409-419.	6.0	26
11	Heat Transfer in Double U-Tube Boreholes With Two Independent Circuits. Journal of Heat Transfer, 2011, 133, .	2.1	24
12	A small-scale experimental apparatus to study heat transfer in the vicinity of geothermal boreholes. HVAC and R Research, 2014, 20, 819-827.	0.6	23
13	Experimental determination of the g-functions of a small-scale geothermal borehole. Geothermics, 2015, 56, 60-71.	3.4	22
14	Autoregressive neural networks with exogenous variables for indoor temperature prediction in buildings. Building Simulation, 2021, 14, 165-178.	5.6	22
15	Comparing vertical ground heat exchanger models. Journal of Building Performance Simulation, 2012, 5, 369-383.	2.0	20
16	A hybrid reduced model for borehole heat exchangers over different time-scales and regions. Energy, 2014, 77, 318-326.	8.8	20
17	Transient Modeling of Refrigerant-to-AirFin-and-Tube Heat Exchangers. HVAC and R Research, 2010, 16, 355-381.	0.6	14
18	Modifications to ASHRAE's sizing method for vertical ground heat exchangers. Science and Technology for the Built Environment, 2018, 24, 803-817.	1.7	13

#	ARTICLE	IF	CITATIONS
19	Transient model of a geothermal heat pump in cycling conditions – Part A: The model. International Journal of Refrigeration, 2012, 35, 2110-2123.	3.4	10
20	Experimental validation of a TRC model for a double U-tube borehole with two independent circuits. Applied Thermal Engineering, 2019, 162, 114229.	6.0	10
21	Integrated model for comparison of one- and two-pipe ground-coupled heat pump network configurations. Science and Technology for the Built Environment, 2018, 24, 726-742.	1.7	9
22	Modelling the bleed port of a thermostatic expansion valve. International Journal of Refrigeration, 2009, 32, 826-836.	3.4	6
23	Universal short time $g^*$ -functions: generation and application. Science and Technology for the Built Environment, 2019, 25, 993-1006.	1.7	6
24	Calibration of thermal response test (TRT) units with a virtual borehole. Geothermics, 2019, 79, 105-113.	3.4	6
25	A comparison between geothermal absorption and compression heat pumps for space conditioning. International Journal of Environmental Studies, 2007, 64, 467-487.	1.6	4
26	Analysis of a combined photovoltaic-geothermal gas-fired absorption heat pump system in a Canadian climate. Journal of Building Performance Simulation, 2008, 1, 245-256.	2.0	4
27	Transient model of a geothermal heat pump in cycling conditions – Part B: Experimental validation and results. International Journal of Refrigeration, 2012, 35, 2124-2137.	3.4	4
28	Modelling of a water-to-air variable capacity ground-source heat pump. Journal of Building Performance Simulation, 2018, 11, 283-293.	2.0	4
29	Ground-source heat pump systems: state-of-the-art. Science and Technology for the Built Environment, 2019, 25, 945-946.	1.7	1