

Moncef Krarti

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.

124
papers

2,941
citations

29
h-index

52
g-index

153
ext. papers

3,390
ext. citations

5.3
avg, IF

5.99
L-index

#	Paper	IF	Citations
124	Energy Performance Evaluation of Shallow Ground Source Heat Pumps for Residential Buildings. <i>Energies</i> , 2022 , 15, 1025	3.1	2
123	Benefits of switchable insulation systems for residential buildings in France. <i>Energy and Buildings</i> , 2022 , 259, 111868	7	0
122	Review of Adoption Status of Sustainable Energy Technologies in the US Residential Building Sector. <i>Energies</i> , 2022 , 15, 2027	3.1	1
121	A review of optimization based tools for design and control of building energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 160, 112359	16.2	3
120	Optimal controls of precooling strategies using switchable insulation systems for commercial buildings. <i>Applied Energy</i> , 2022 , 320, 119298	10.7	0
119	Evaluation of energy performance of dynamic overhang systems for US residential buildings. <i>Energy and Buildings</i> , 2021 , 234, 110699	7	12
118	Energy efficiency of residential buildings in the kingdom of Saudi Arabia: Review of status and future roadmap. <i>Journal of Building Engineering</i> , 2021 , 36, 102143	5.2	12
117	Optimal Control Strategies for Switchable Transparent Insulation Systems Applied to Smart Windows for US Residential Buildings. <i>Energies</i> , 2021 , 14, 2917	3.1	2
116	Performance of precooling strategies using switchable insulation systems for commercial buildings. <i>Applied Energy</i> , 2021 , 303, 117631	10.7	3
115	Optimal Control Strategies for Switchable Roof Insulation Systems Applied to US Residential Buildings. <i>ASME Journal of Engineering for Sustainable Buildings and Cities</i> , 2020 , 1,	0.4	1
114	Multiple-Benefit Analysis of Scaling-Up Building Energy Efficiency Programs: The Case Study of Tunisia. <i>ASME Journal of Engineering for Sustainable Buildings and Cities</i> , 2020 , 1,	0.4	1
113	Feasibility Assessment of a Grid-Connected Carbon-Neutral Community in Midland, Texas. <i>ASME Journal of Engineering for Sustainable Buildings and Cities</i> , 2020 , 1,	0.4	1
112	Evaluation of Interactions Between Thermal Piles Integrated in Building Foundations. <i>ASME Journal of Engineering for Sustainable Buildings and Cities</i> , 2020 , 1,	0.4	1
111	Impact of Wall Constructions on Energy Performance of Switchable Insulation Systems. <i>Energies</i> , 2020 , 13, 6068	3.1	4
110	Optimal control strategies for hollow core ventilated slab systems. <i>Journal of Building Engineering</i> , 2019 , 24, 100762	5.2	1
109	Analysis of high-energy performance residences in Nigeria. <i>Energy Efficiency</i> , 2019 , 12, 681-695	3	4
108	Optimal Hybrid Power Energy Systems for Residential Communities in Saudi Arabia. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2019 , 141,	2.3	6

107	Evaluation of Energy Efficiency Potential for the Building Sector in the Arab Region. <i>Energies</i> , 2019 , 12, 4279	3.1	8
106	Benefits of energy efficiency programs for residential buildings in Bahrain. <i>Journal of Building Engineering</i> , 2018 , 18, 40-50	5.2	21
105	Development of design guidelines for thermo-active foundations. <i>Indoor and Built Environment</i> , 2018 , 27, 805-817	1.8	3
104	Evaluation of Ground-Source Variable Refrigerant Flow System for U.S. Office Buildings. <i>Sustainability</i> , 2018 , 10, 1621	3.6	
103	An analysis methodology for large-scale deep energy retrofits of existing building stocks: Case study of the Italian office building. <i>Sustainable Cities and Society</i> , 2018 , 41, 296-311	10.1	47
102	Advanced Building Energy Efficiency Systems 2018 , 45-115		1
101	Control Strategies for Building Energy Systems 2018 , 117-187		0
100	Integrated Design and Retrofit of Buildings 2018 , 313-384		
99	Integrated Design of Communities 2018 , 385-470		1
98	Evaluation of building energy efficiency investment options for the Kingdom of Saudi Arabia. <i>Energy</i> , 2017 , 134, 595-610	7.9	74
97	Potential energy savings from deployment of Dynamic Insulation Materials for US residential buildings. <i>Building and Environment</i> , 2017 , 114, 203-218	6.5	65
96	Control strategies for dynamic insulation materials applied to commercial buildings. <i>Energy and Buildings</i> , 2017 , 154, 305-320	7	30
95	Three-dimensional accuracy with two-dimensional computation speed: using the Kiva numerical framework to improve foundation heat transfer calculations. <i>Journal of Building Performance Simulation</i> , 2017 , 10, 161-182	2.8	3
94	Macro-economic benefit analysis of large scale building energy efficiency programs in Qatar. <i>International Journal of Sustainable Built Environment</i> , 2017 , 6, 597-609		22
93	Energy performance analysis of variable reflectivity envelope systems for commercial buildings. <i>Energy and Buildings</i> , 2016 , 124, 88-98	7	31
92	Impact of subsidization on high energy performance designs for Kuwaiti residential buildings. <i>Energy and Buildings</i> , 2016 , 116, 249-262	7	47
91	Evaluation of net-zero energy residential buildings in the MENA region. <i>Sustainable Cities and Society</i> , 2016 , 22, 116-125	10.1	61
90	Chapter 4 Analysis Methods for Building Energy Auditing. <i>Mechanical and Aerospace Engineering</i> , 2016 , 61-82		1

89	Evaluation of Passive Cooling Systems for Residential Buildings in the Kingdom of Saudi Arabia. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2016 , 138,	2.3	11
88	Evaluation of Thermo-Active Foundations for Heating and Cooling Residential Buildings. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2016 , 138,	2.3	6
87	Bayesian-Emulator based parameter identification for calibrating energy models for existing buildings. <i>Building Simulation</i> , 2016 , 9, 411-428	3.9	22
86	Comparative evaluation of optimal energy efficiency designs for French and US office buildings. <i>Energy and Buildings</i> , 2015 , 93, 332-344	7	19
85	Energy performance analysis of variable thermal resistance envelopes in residential buildings. <i>Energy and Buildings</i> , 2015 , 103, 317-325	7	72
84	Energy efficiency optimization of new and existing office buildings in Guanajuato, Mexico. <i>Sustainable Cities and Society</i> , 2015 , 17, 132-140	10.1	23
83	Comparative Analysis of Prediction Accuracy from Daylighting Simulation Tools. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2015 , 11, 49-60	3.5	8
82	Evaluation of Optimal Hybrid Distributed Generation Systems for an Isolated Rural Settlement in Masirah Island, Oman. <i>Distributed Generation and Alternative Energy Journal</i> , 2015 , 30, 23-42	0.3	6
81	Analysis of End-Use Impact of Daylighting and Glare Controls for Private Office Spaces. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2015 , 11, 61-87	3.5	
80	KivaTM: a numerical framework for improving foundation heat transfer calculations. <i>Journal of Building Performance Simulation</i> , 2015 , 8, 449-468	2.8	5
79	Heat transfer analysis of thermo-active foundations. <i>Energy and Buildings</i> , 2015 , 86, 492-501	7	20
78	Foundation heat transfer analysis for buildings with thermal piles. <i>Energy Conversion and Management</i> , 2015 , 89, 449-457	10.6	5
77	Optimal design of residential building envelope systems in the Kingdom of Saudi Arabia. <i>Energy and Buildings</i> , 2015 , 86, 104-117	7	106
76	Evaluation of large scale building energy efficiency retrofit program in Kuwait. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 50, 1069-1080	16.2	48
75	Optimal insulation for ice rink floors. <i>Energy and Buildings</i> , 2015 , 108, 358-364	7	3
74	Assessment of infiltration heat recovery and its impact on energy consumption for residential buildings. <i>Energy Conversion and Management</i> , 2014 , 78, 316-323	10.6	3
73	Optimization of Hybrid Distributed Generation Systems For Rural Communities in Alaska. <i>Distributed Generation and Alternative Energy Journal</i> , 2013 , 28, 7-31	0.3	4
72	Design Optimization of Energy Efficient Office Buildings in Tunisia. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2013 , 135,	2.3	6

71	Performance of Thermoactive Foundations for Commercial Buildings. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2013 , 135,	2.3	6
70	Optimal electrical circuiting layout and desk location for daylighting controlled spaces. <i>Energy and Buildings</i> , 2012 , 51, 122-130	7	7
69	Impact of window selection on the energy performance of residential buildings in South Korea. <i>Energy Policy</i> , 2012 , 44, 1-9	7.2	51
68	Optimization of energy efficiency and thermal comfort measures for residential buildings in Salamanca, Mexico. <i>Energy and Buildings</i> , 2012 , 54, 540-549	7	58
67	Design optimization of energy efficient residential buildings in Tunisia. <i>Building and Environment</i> , 2012 , 58, 81-90	6.5	115
66	Optimal control of building storage systems using both ice storage and thermal mass [Part I: Simulation environment. <i>Energy Conversion and Management</i> , 2012 , 64, 499-508	10.6	43
65	Optimal controls of building storage systems using both ice storage and thermal mass [Part II: Parametric analysis. <i>Energy Conversion and Management</i> , 2012 , 64, 509-515	10.6	37
64	Impact of Layered Soil on Foundation Heat Transfer for Slab-On Grade Floors. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2012 , 134,	2.3	1
63	A frequency-domain regression method for estimating building foundation heat transfer. <i>Journal of Building Performance Simulation</i> , 2012 , 5, 93-104	2.8	2
62	Analysis of Thermo-Active Foundations With U-Tube Heat Exchangers. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2012 , 134,	2.3	14
61	Hybrid Distributed Power Generation for an Isolated Rural Settlement in Masirah Island, Oman 2011 ,		2
60	Behavior and Testing Performance of a Gas Tankless Water Heater 2011 ,		3
59	Optimization of envelope and HVAC systems selection for residential buildings. <i>Energy and Buildings</i> , 2011 , 43, 3373-3382	7	142
58	Analysis of impact of daylight time savings on energy use of buildings in Kuwait. <i>Energy Policy</i> , 2011 , 39, 2319-2329	7.2	26
57	An ice rink floor thermal model suitable for whole-building energy simulation analysis. <i>Building and Environment</i> , 2011 , 46, 1087-1093	6.5	8
56	Development of an optimal daylighting controller. <i>Building and Environment</i> , 2011 , 46, 1011-1022	6.5	13
55	Assessment of natural and hybrid ventilation models in whole-building energy simulations. <i>Energy and Buildings</i> , 2011 , 43, 2251-2261	7	85
54	Hourly Solar Radiation Model Suitable for Worldwide Typical Weather File Generation. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2011 , 133,	2.3	8

53	An Analysis Model for Domestic Hot Water Distribution Systems 2011 ,		5
52	Evaluation of Measurement and Verification Procedures for Retrofit Savings Using Calibrated Energy Building Models 2010 ,		1
51	Genetic-algorithm based approach to optimize building envelope design for residential buildings. <i>Building and Environment</i> , 2010 , 45, 1574-1581	6.5	300
50	Impact of building shape on thermal performance of office buildings in Kuwait. <i>Energy Conversion and Management</i> , 2009 , 50, 822-828	10.6	81
49	Estimation of lighting energy savings from daylighting. <i>Building and Environment</i> , 2009 , 44, 509-514	6.5	133
48	Implementation of a building foundation heat transfer model in EnergyPlus. <i>Journal of Building Performance Simulation</i> , 2009 , 2, 127-142	2.8	9
47	Impact of Solar Model Selection on Building Energy Analysis for Kuwait. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2008 , 130,	2.3	2
46	Heat transfer beneath ice-rink floors. <i>Building and Environment</i> , 2008 , 43, 1687-1698	6.5	6
45	Energy Efficient Systems and Strategies for Heating, Ventilating, and Air Conditioning (HVAC) of Buildings. <i>Journal of Green Building</i> , 2008 , 3, 44-55	1.3	8
44	A simplified analysis method to predict the impact of shape on annual energy use for office buildings. <i>Energy Conversion and Management</i> , 2007 , 48, 300-305	10.6	103
43	Impact of electricity rate structures on energy cost savings of pre-cooling controls for office buildings. <i>Building and Environment</i> , 2007 , 42, 2810-2818	6.5	23
42	A Simplified Method to Predict Energy Cost Savings in Office Buildings Using a Hybrid Desiccant, Absorption Chiller, and Natural Gas Turbine Cogeneration System With Thermal Storage 2007 , 787		2
41	Impact of Shape on Thermal Performance of Office Buildings in Kuwait 2007 , 607		
40	Experimental Analysis of Heat Transfer From Ice Rink Floors 2006 , 681		0
39	Genetic-Algorithm Based Controls for Daylighting 2006 , 609		
38	Comparative Thermal Analysis of Structural Insulated Panels and Wood Frame Walls for Residential Buildings 2006 , 659		
37	Impact of Solar Model Selection on Building Energy Analysis for Kuwait 2006 , 629		
36	Analysis of Demand Side Management Measures for Residential Buildings 2006 , 671		

35	Impact of Shape on Building Energy Use in Tunisia 2006 , 621		
34	Parametric Analysis of Active and Passive Building Thermal Storage Utilization*. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2005 , 127, 37-46	2.3	29
33	Analysis of Daylighting Benefits for Office Buildings in Egypt. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2005 , 127, 366-370	2.3	8
32	A simplified method to estimate energy savings of artificial lighting use from daylighting. <i>Building and Environment</i> , 2005 , 40, 747-754	6.5	138
31	Experimental Analysis of Thermal Comfort-Based Controls 2004 , 277		
30	Parametric Analysis of Active and Passive Building Thermal Storage Utilization 2004 , 193		1
29	Analysis of Heat and Moisture Transfer Beneath Freezer Foundations Part I. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2004 , 126, 716-725	2.3	7
28	Analysis of Heat and Moisture Transfer Beneath Freezer Foundations-Part II. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2004 , 126, 726-731	2.3	5
27	Development of a thermal energy storage model for EnergyPlus. <i>Energy and Buildings</i> , 2004 , 36, 807-814		27
26	Local/global analysis of transient heat transfer from building foundations. <i>Building and Environment</i> , 2004 , 39, 495-504	6.5	10
25	Comparative Evaluation of Indoor Thermal Comfort for Green and Conventional Office Buildings 2004 , 177		
24	An Overview of Artificial Intelligence-Based Methods for Building Energy Systems. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2003 , 125, 331-342	2.3	44
23	Optimization of Korean crop storage insulation systems. <i>Energy Conversion and Management</i> , 2003 , 44, 1145-1162	10.6	15
22	Guidelines for improved performance of ice storage systems. <i>Energy and Buildings</i> , 2003 , 35, 111-127	7	55
21	Local/global analysis applications to ground-coupled heat transfer. <i>International Journal of Thermal Sciences</i> , 2003 , 42, 871-880	4.1	1
20	Foundation heat loss from heated concrete slab-on-grade floors. <i>Building and Environment</i> , 2001 , 36, 637-655	6.5	34
19	Steady-State Component of Three-Dimensional Slab-on-Grade Foundation Heat Transfer. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2001 , 123, 18-29	2.3	3
18	Steady-Periodic Three-Dimensional Foundation Heat Transfer From Refrigerated Structures. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2000 , 122, 69-83	2.3	7

17	Thermally optimal insulation distribution for underground structures. <i>Energy and Buildings</i> , 2000 , 32, 251-265	7	18
16	Time-varying heat transfer from adjacent slab-on-grade floors. <i>International Journal of Energy Research</i> , 1998 , 22, 289-301	4.5	2
15	A Simulation Environment for the Analysis of Ice Storage Controls. <i>HVAC and R Research</i> , 1997 , 3, 128-148		29
14	Development of a Predictive Optimal Controller for Thermal Energy Storage Systems. <i>HVAC and R Research</i> , 1997 , 3, 233-264		89
13	A simulation method for fluctuating temperatures in crawlspace foundations. <i>Energy and Buildings</i> , 1997 , 26, 183-188	7	4
12	Analytical model for heat transfer in an underground air tunnel. <i>Energy Conversion and Management</i> , 1996 , 37, 1561-1574	10.6	90
11	Slab heat loss calculation with non-uniform inside air temperature profiles. <i>Energy Conversion and Management</i> , 1996 , 37, 1435-1444	10.6	4
10	Effect of spatial variation of soil thermal properties on slab-on-ground heat transfer. <i>Building and Environment</i> , 1996 , 31, 51-57	6.5	13
9	Time-varying heat transfer from slab-on-grade floors with vertical insulation. <i>Building and Environment</i> , 1994 , 29, 55-61	6.5	14
8	Time-varying heat transfer from partially insulated basements. <i>International Journal of Heat and Mass Transfer</i> , 1994 , 37, 1657-1671	4.9	5
7	Time-varying heat transfer from horizontally insulated slab-on-grade floors. <i>Building and Environment</i> , 1994 , 29, 63-71	6.5	10
6	Steady-state heat transfer from horizontally insulated slabs. <i>International Journal of Heat and Mass Transfer</i> , 1993 , 36, 2135-2145	4.9	5
5	Steady-state heat transfer from slab-on-grade floors with vertical insulation. <i>International Journal of Heat and Mass Transfer</i> , 1993 , 36, 2147-2155	4.9	7
4	Two-Dimensional Heat Transfer From Earth-Sheltered Buildings. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 1990 , 112, 43-50	2.3	12
3	Steady-state heat transfer beneath partially insulated slab-on-grade floor. <i>International Journal of Heat and Mass Transfer</i> , 1989 , 32, 961-969	4.9	18
2	The ITPE technique applied to steady-state ground-coupling problems. <i>International Journal of Heat and Mass Transfer</i> , 1988 , 31, 1885-1898	4.9	47
1	ITPE technique applications to time-varying two-dimensional ground-coupling problems. <i>International Journal of Heat and Mass Transfer</i> , 1988 , 31, 1899-1911	4.9	51