

# Dariusz Heim

## List of Publications by Year in descending order

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46  
papers

600  
citations

933410

10  
h-index

610883

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g-index

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46  
docs citations

46  
times ranked

552  
citing authors

#	ARTICLE	IF	CITATIONS
1	A combined thermal and electrical performance evaluation of low concentration photovoltaic systems. <i>Energy</i> , 2022, 254, 124247.	8.8	4
2	Macroencapsulation of Paraffin in a Polymer-Gypsum Composite Using Granulation Technique. <i>Materials</i> , 2022, 15, 3783.	2.9	3
3	A novel photometric method for the determination of reflected solar irradiance in the built environment. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110451.	16.4	4
4	Dynamics of Melting Process in Phase Change Material Windows Determined Based on Direct Light Transmission. <i>Energies</i> , 2021, 14, 721.	3.1	10
5	Towards Improving the Durability and Overall Performance of PV-ETICS by Application of a PCM Layer. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4667.	2.5	6
6	Testing a Gypsum Composite Based on Raw Gypsum with a Direct Admixture of Paraffin and Polymer to Improve Thermal Properties. <i>Materials</i> , 2021, 14, 3241.	2.9	3
7	Heat Transfer with Phase Change in a Multilayer Construction: Simulation versus Experiment. <i>Energies</i> , 2021, 14, 4390.	3.1	8
8	Parametric Study of Air Infiltration in Residential Buildings – The Effect of Local Conditions on Energy Demand. <i>Energies</i> , 2021, 14, 127.	3.1	10
9	Improvement of BIPV Efficiency by Application of Highly Reflective Surfaces at the Building Envelope. <i>Energies</i> , 2021, 14, 7424.	3.1	2
10	Thermal performance of ETICS, energy activated with PCM and PV. <i>Journal of Physics: Conference Series</i> , 2021, 2069, 012116.	0.4	3
11	Modelling of thermal processes in a glazing structure with temperature dependent optical properties - An example of PCM-window. <i>Renewable Energy</i> , 2020, 160, 653-662.	8.9	38
12	A method to develop energy activated ETICS. <i>E3S Web of Conferences</i> , 2020, 172, 21006.	0.5	4
13	The integration of selected technology to energy activated ETICS - theoretical approach. <i>E3S Web of Conferences</i> , 2020, 172, 21004.	0.5	2
14	Numerical modeling of phase change materials using simusol software. <i>Applied Thermal Engineering</i> , 2020, 170, 114772.	6.0	12
15	Empirical validation and comparison of PCM modeling algorithms commonly used in building energy and hygrothermal software. <i>Building and Environment</i> , 2020, 173, 106750.	6.9	34
16	Modelling building infiltration using the airflow network model approach calibrated by air-tightness test results and leak detection. <i>Building Services Engineering Research and Technology</i> , 2020, 41, 681-693.	1.8	3
17	Modeling of microclimate elements in the environment of historic buildings. <i>Budownictwo i Architektura</i> , 2020, 12, 047-052.	0.3	0
18	Photovoltaic systems – types of installations, materials, monitoring and modeling - review. <i>Acta Innovations</i> , 2020, , 40-49.	1.0	2

#	ARTICLE	IF	CITATIONS
19	Peripheral Isothermal System of Heat Gain Storage for Thermal Stability in Low-Energy Buildings. Applied Sciences (Switzerland), 2019, 9, 3091.	2.5	3
20	The The Methodology of Thermal Energy Management for Nearly Zero Energy Buildings. Periodica Polytechnica: Civil Engineering, 2019, , .	0.6	3
21	Paraffin Permeability of Synthetic Gypsum Binders Modified by Individual Polymers. Latvian Journal of Physics and Technical Sciences, 2019, 56, 47-56.	0.6	3
22	Productivity of PV facades in characteristic periods with different energy demand for lighting. Acta Innovations, 2019, , 16-23.	1.0	1
23	Influence of Tylose MH1000 Content on Gypsum Thermal Conductivity. Journal of Materials in Civil Engineering, 2018, 30, .	2.9	15
24	Attenuation of Temperature Fluctuations on an External Surface of the Wall by a Phase Change Material-Activated Layer. Applied Sciences (Switzerland), 2018, 8, 11.	2.5	29
25	The characteristics of temperature fluctuations in thermal insulation covered with layer of PCM. IOP Conference Series: Materials Science and Engineering, 2018, 415, 012017.	0.6	1
26	Greenery in the urban environment as a nature based solution for thermal stress mitigation. E3S Web of Conferences, 2018, 49, 00045.	0.5	0
27	Determination of total solar and visual radiation transmitted through triple glazing component with PCM layer. IOP Conference Series: Materials Science and Engineering, 2018, 415, 012041.	0.6	1
28	Determination of daylight conditions in office room using digital images as a light source.. IOP Conference Series: Materials Science and Engineering, 2018, 415, 012040.	0.6	1
29	Environmental, energy and economic aspects in a zero-emission faÅšade system design. Management of Environmental Quality, 2016, 27, 708-721.	4.3	4
30	Analysis and Interpretation of Results of Thermal Conductivity Obtained by the Hot Wire Method. Experimental Techniques, 2016, 40, 513-519.	1.5	6
31	Energy performance of dynamic thermal insulation built in the experimental faÅšade system. Management of Environmental Quality, 2016, 27, 681-694.	4.3	3
32	Application of a BIPV to cover net energy use of the adjacent office room. Management of Environmental Quality, 2016, 27, 649-662.	4.3	14
33	Positioning of an isothermal heat storage layer in a building wall exposed to the external environment. Journal of Building Performance Simulation, 2016, 9, 542-554.	2.0	28
34	Potential of PV FaÅšade for Supplementary Lighting in Winter. Energy Procedia, 2015, 78, 2651-2656.	1.8	6
35	Application of Sky Digital Images for Controlling of Louver System. Energy Procedia, 2015, 78, 1769-1774.	1.8	7
36	Modelling of Thermo-optical Properties of Amorphous and Microcrystalline Silicon Semitransparent PV Layer. Energy Procedia, 2015, 78, 430-434.	1.8	2

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37	Effect of Transition Temperature on Efficiency of PV/PCM Panels. Energy Procedia, 2015, 78, 1684-1689.	1.8	63
38	A heat transfer model of a PV panel integrated with a "Rainscreen Cladding System". WIT Transactions on Engineering Sciences, 2014, , .	0.0	1
39	Double criterion optimisation of transparent façades based on solar thermal processes. Frontiers of Architectural Research, 2013, 2, 23-29.	2.8	2
40	The Simultaneous Effect of the Operating Temperature and Solar Radiation on the Efficiency of Photovoltaic Panels / Jednoczesny Wpływ Temperatury Pracy Oraz Promieniowania Słonecznego Na Wydajność Ogrzewaczy Fotowoltaicznych. Archives of Civil Engineering, 2011, 57, 261-274.	0.7	5
41	Isothermal storage of solar energy in building construction. Renewable Energy, 2010, 35, 788-796.	8.9	72
42	Numerical modelling and thermal simulation of PCM-gypsum composites with ESP-r. Energy and Buildings, 2004, 36, 795-805.	6.7	181
43	Mechanical Properties of Gypsum-PCM Composite Refined with the Acrylic Copolymer. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	1
44	The Effect of Changeable Urban Albedo on Solar Radiation Incident on Vertical Facade. , 0, , .		0
45	Actuation Of Changeable Optical Properties By A Construction Node Temperature " An Example Of PCM-Window. , 0, , .		0
46	Modeling of Thermal and Optical Processes in Translucent Structures Filled with PCM Layer Using Moving Mushy Volume Approach. , 0, , .		0