

# Dariusz Heim

## List of Publications by Year in descending order

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46  
papers

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citations

933447  
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610901  
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46  
all docs

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. Energy, 2022, 254, 124247.	8.8	4
2	Macroencapsulation of Paraffin in a Polymer-Gypsum Composite Using Granulation Technique. Materials, 2022, 15, 3783.	2.9	3
3	A novel photometric method for the determination of reflected solar irradiance in the built environment. Renewable and Sustainable Energy Reviews, 2021, 137, 110451.	16.4	4
4	Dynamics of Melting Process in Phase Change Material Windows Determined Based on Direct Light Transmission. Energies, 2021, 14, 721.	3.1	10
5	Towards Improving the Durability and Overall Performance of PV-ETICS by Application of a PCM Layer. Applied Sciences (Switzerland), 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. Materials, 2021, 14, 3241.	2.9	3
7	Heat Transfer with Phase Change in a Multilayer Construction: Simulation versus Experiment. Energies, 2021, 14, 4390.	3.1	8
8	Parametric Study of Air Infiltration in Residential Buildings-The Effect of Local Conditions on Energy Demand. Energies, 2021, 14, 127.	3.1	10
9	Improvement of BIPV Efficiency by Application of Highly Reflective Surfaces at the Building Envelope. Energies, 2021, 14, 7424.	3.1	2
10	Thermal performance of ETICS, energy activated with PCM and PV. Journal of Physics: Conference Series, 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. Renewable Energy, 2020, 160, 653-662.	8.9	38
12	A method to develop energy activated ETICS. E3S Web of Conferences, 2020, 172, 21006.	0.5	4
13	The integration of selected technology to energy activated ETICS - theoretical approach. E3S Web of Conferences, 2020, 172, 21004.	0.5	2
14	Numerical modeling of phase change materials using simusol software. Applied Thermal Engineering, 2020, 170, 114772.	6.0	12
15	Empirical validation and comparison of PCM modeling algorithms commonly used in building energy and hygrothermal software. Building and Environment, 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. Building Services Engineering Research and Technology, 2020, 41, 681-693.	1.8	3
17	Modeling of microclimate elements in the environment of historic buildings. Budownictwo i Architektura, 2020, 12, 047-052.	0.3	0
18	Photovoltaic systems - types of installations, materials, monitoring and modeling - review. Acta Innovations, 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 Ogniw 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