

Dariusz Heim

List of Publications by Year in descending order

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46
papers

600
citations

933410

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610883

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46
all docs

46
docs citations

46
times ranked

552
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modelling and thermal simulation of PCM-gypsum composites with ESP-r. Energy and Buildings, 2004, 36, 795-805.	6.7	181
2	Isothermal storage of solar energy in building construction. Renewable Energy, 2010, 35, 788-796.	8.9	72
3	Effect of Transition Temperature on Efficiency of PV/PCM Panels. Energy Procedia, 2015, 78, 1684-1689.	1.8	63
4	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
5	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
6	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
7	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
8	Influence of Tylose MH1000 Content on Gypsum Thermal Conductivity. Journal of Materials in Civil Engineering, 2018, 30, .	2.9	15
9	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
10	Numerical modeling of phase change materials using simusol software. Applied Thermal Engineering, 2020, 170, 114772.	6.0	12
11	Dynamics of Melting Process in Phase Change Material Windows Determined Based on Direct Light Transmission. Energies, 2021, 14, 721.	3.1	10
12	Parametric Study of Air Infiltration in Residential Buildings – The Effect of Local Conditions on Energy Demand. Energies, 2021, 14, 127.	3.1	10
13	Heat Transfer with Phase Change in a Multilayer Construction: Simulation versus Experiment. Energies, 2021, 14, 4390.	3.1	8
14	Application of Sky Digital Images for Controlling of Louver System. Energy Procedia, 2015, 78, 1769-1774.	1.8	7
15	Potential of PV Façade for Supplementary Lighting in Winter. Energy Procedia, 2015, 78, 2651-2656.	1.8	6
16	Analysis and Interpretation of Results of Thermal Conductivity Obtained by the Hot Wire Method. Experimental Techniques, 2016, 40, 513-519.	1.5	6
17	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
18	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 Ogniwa Fotowoltaicznych. Archives of Civil Engineering, 2011, 57, 261-274.	0.7	5

#	ARTICLE	IF	CITATIONS
19	Environmental, energy and economic aspects in a zero-emission facade system design. Management of Environmental Quality, 2016, 27, 708-721.	4.3	4
20	A method to develop energy activated ETICS. E3S Web of Conferences, 2020, 172, 21006.	0.5	4
21	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
22	A combined thermal and electrical performance evaluation of low concentration photovoltaic systems. Energy, 2022, 254, 124247.	8.8	4
23	Energy performance of dynamic thermal insulation built in the experimental facade system. Management of Environmental Quality, 2016, 27, 681-694.	4.3	3
24	Peripheral Isothermal System of Heat Gain Storage for Thermal Stability in Low-Energy Buildings. Applied Sciences (Switzerland), 2019, 9, 3091.	2.5	3
25	The Methodology of Thermal Energy Management for Nearly Zero Energy Buildings. Periodica Polytechnica: Civil Engineering, 2019, , .	0.6	3
26	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
27	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
28	Paraffin Permeability of Synthetic Gypsum Binders Modified by Individual Polymers. Latvian Journal of Physics and Technical Sciences, 2019, 56, 47-56.	0.6	3
29	Thermal performance of ETICS, energy activated with PCM and PV. Journal of Physics: Conference Series, 2021, 2069, 012116.	0.4	3
30	Macroencapsulation of Paraffin in a Polymer-Gypsum Composite Using Granulation Technique. Materials, 2022, 15, 3783.	2.9	3
31	Double criterion optimisation of transparent facades based on solar thermal processes. Frontiers of Architectural Research, 2013, 2, 23-29.	2.8	2
32	Modelling of Thermo-optical Properties of Amorphous and Microcrystalline Silicon Semitransparent PV Layer. Energy Procedia, 2015, 78, 430-434.	1.8	2
33	The integration of selected technology to energy activated ETICS - theoretical approach. E3S Web of Conferences, 2020, 172, 21004.	0.5	2
34	Photovoltaic systems - types of installations, materials, monitoring and modeling - review. Acta Innovations, 2020, , 40-49.	1.0	2
35	Improvement of BIPV Efficiency by Application of Highly Reflective Surfaces at the Building Envelope. Energies, 2021, 14, 7424.	3.1	2
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	A heat transfer model of a PV panel integrated with a "Rainscreen Cladding System" WIT Transactions on Engineering Sciences, 2014, , .	0.0	1
40	Productivity of PV facades in characteristic periods with different energy demand for lighting. Acta Innovations, 2019, , 16-23.	1.0	1
41	Mechanical Properties of Gypsum-PCM Composite Refined with the Acrylic Copolymer. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	1
42	Greenery in the urban environment as a nature based solution for thermal stress mitigation. E3S Web of Conferences, 2018, 49, 00045.	0.5	0
43	Modeling of microclimate elements in the environment of historic buildings. Budownictwo i Architektura, 2020, 12, 047-052.	0.3	0
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