

# Robert Cerny

## List of Publications by Year in descending order

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Version: 2024-02-01

599  
papers

7,620  
citations

57719

44  
h-index

102432

66  
g-index

605  
all docs

605  
docs citations

605  
times ranked

4504  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of moisture content on heat and moisture transport and storage properties of thermal insulation materials. <i>Energy and Buildings</i> , 2012, 53, 39-46.	3.1	210
2	Hygric, thermal and durability properties of autoclaved aerated concrete. <i>Construction and Building Materials</i> , 2013, 41, 352-359.	3.2	184
3	Surface diffusion in porous media: A critical review. <i>Microporous and Mesoporous Materials</i> , 2011, 142, 405-422.	2.2	164
4	Application of waste brick powder in alkali activated aluminosilicates: Functional and environmental aspects. <i>Journal of Cleaner Production</i> , 2018, 194, 714-725.	4.6	140
5	High performance concrete with Czech metakaolin: Experimental analysis of strength, toughness and durability characteristics. <i>Construction and Building Materials</i> , 2010, 24, 1404-1411.	3.2	126
6	Engineering properties of concrete containing natural zeolite as supplementary cementitious material: Strength, toughness, durability, and hygrothermal performance. <i>Cement and Concrete Composites</i> , 2015, 55, 259-267.	4.6	124
7	Properties of high performance concrete containing fine-ground ceramics as supplementary cementitious material. <i>Cement and Concrete Composites</i> , 2012, 34, 55-61.	4.6	115
8	Properties of self-compacting concrete mixtures containing metakaolin and blast furnace slag. <i>Construction and Building Materials</i> , 2011, 25, 1325-1331.	3.2	108
9	Flue gas desulfurization gypsum: Study of basic mechanical, hydric and thermal properties. <i>Construction and Building Materials</i> , 2007, 21, 1500-1509.	3.2	105
10	Time-domain reflectometry method and its application for measuring moisture content in porous materials: A review. <i>Measurement: Journal of the International Measurement Confederation</i> , 2009, 42, 329-336.	2.5	104
11	Energy-efficient thermal treatment of sewage sludge for its application in blended cements. <i>Journal of Cleaner Production</i> , 2016, 112, 409-419.	4.6	99
12	Structural, mechanical and hygrothermal properties of lightweight concrete based on the application of waste plastics. <i>Construction and Building Materials</i> , 2018, 180, 1-11.	3.2	95
13	Lightweight gypsum composites: Design strategies for multi-functionality. <i>Cement and Concrete Composites</i> , 2011, 33, 84-89.	4.6	93
14	Effect of pozzolanic admixtures on mechanical, thermal and hygric properties of lime plasters. <i>Construction and Building Materials</i> , 2006, 20, 849-857.	3.2	86
15	Mechanical, fracture-mechanical, hydric, thermal, and durability properties of lime metakaolin plasters for renovation of historical buildings. <i>Construction and Building Materials</i> , 2012, 31, 22-28.	3.2	84
16	Hygrothermal performance study of an innovative interior thermal insulation system. <i>Applied Thermal Engineering</i> , 2009, 29, 1941-1946.	3.0	79
17	Salt transport and storage parameters of renovation plasters and their possible effects on restored buildings' walls. <i>Construction and Building Materials</i> , 2011, 25, 1205-1212.	3.2	78
18	Properties of Alkali Activated Aluminosilicate Material after Thermal Load. <i>International Journal of Thermophysics</i> , 2006, 27, 1250-1263.	1.0	73

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19	Free Water Intake as Means of Material Characterization. <i>Journal of Building Physics</i> , 2009, 33, 29-44.	1.2	72
20	Transition to circular economy in the construction industry: Environmental aspects of waste brick recycling scenarios. <i>Waste Management</i> , 2020, 118, 510-520.	3.7	72
21	Water Vapor Adsorption in Porous Building Materials: Experimental Measurement and Theoretical Analysis. <i>Transport in Porous Media</i> , 2012, 91, 939-954.	1.2	68
22	Long-term on-site assessment of hygrothermal performance of interior thermal insulation system without water vapour barrier. <i>Energy and Buildings</i> , 2009, 41, 51-55.	3.1	62
23	High performance concrete containing lower slag amount: A complex view of mechanical and durability properties. <i>Construction and Building Materials</i> , 2009, 23, 2237-2245.	3.2	61
24	Calcined gypsum "lime" metakaolin binders: Design of optimal composition. <i>Cement and Concrete Composites</i> , 2014, 52, 91-96.	4.6	59
25	Alkali-activated aluminosilicate composite with heat-resistant lightweight aggregates exposed to high temperatures: Mechanical and water transport properties. <i>Cement and Concrete Composites</i> , 2010, 32, 157-163.	4.6	58
26	Red-clay ceramic powders as geopolymer precursors: Consideration of amorphous portion and CaO content. <i>Applied Clay Science</i> , 2018, 161, 82-89.	2.6	58
27	Effect of w/c and temperature on the early-stage hydration heat development in Portland-limestone cement. <i>Construction and Building Materials</i> , 2014, 50, 140-147.	3.2	57
28	Water and salt transport and storage properties of MÅ¼enÅ© sandstone. <i>Construction and Building Materials</i> , 2008, 22, 1736-1748.	3.2	56
29	Physical and chemical characterization of technogenic pozzolans for the application in blended cements. <i>Construction and Building Materials</i> , 2018, 160, 106-116.	3.2	55
30	Modified lime-cement plasters with enhanced thermal and hygric storage capacity for moderation of interior climate. <i>Energy and Buildings</i> , 2016, 126, 113-127.	3.1	54
31	Thermal and hygric properties of biomaterials suitable for interior thermal insulation systems in historical and traditional buildings. <i>Building and Environment</i> , 2019, 154, 81-88.	3.0	54
32	The effect of compressive stress on thermal and hygric properties of Portland cement mortar in wide temperature and moisture ranges. <i>Cement and Concrete Research</i> , 2000, 30, 1267-1276.	4.6	52
33	Application of burnt clay shale as pozzolan addition to lime mortar. <i>Cement and Concrete Composites</i> , 2012, 34, 486-492.	4.6	51
34	Experimental Investigation of the Properties of Lime-Based Plaster-Containing PCM for Enhancing the Heat-Storage Capacity of Building Envelopes. <i>International Journal of Thermophysics</i> , 2014, 35, 767-782.	1.0	51
35	Application of waste ceramic dust as a ready-to-use replacement of cement in lime-cement plasters: an environmental-friendly and energy-efficient solution. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 1725-1733.	2.1	51
36	DSC and TG Analysis of a Blended Binder Based on Waste Ceramic Powder and Portland Cement. <i>International Journal of Thermophysics</i> , 2016, 37, 1.	1.0	50

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37	Mechanical, durability and hygrothermal properties of concrete produced using Portland cement-ceramic powder blends. <i>Structural Concrete</i> , 2016, 17, 105-115.	1.5	49
38	Ecotoxicology of building materials: A critical review of recent studies. <i>Journal of Cleaner Production</i> , 2017, 165, 500-508.	4.6	49
39	Effect of hydrophilic admixtures on moisture and heat transport and storage parameters of mineral wool. <i>Construction and Building Materials</i> , 2006, 20, 425-434.	3.2	48
40	Measurement of linear thermal expansion coefficient of alkali-activated aluminosilicate composites up to 1000°C. <i>Cement and Concrete Composites</i> , 2009, 31, 263-267.	4.6	47
41	Biomass ash-based mineral admixture prepared from municipal sewage sludge and its application in cement composites. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 159-171.	2.1	47
42	Experimental assessment of hygrothermal performance of an interior thermal insulation system using a laboratory technique simulating on-site conditions. <i>Energy and Buildings</i> , 2008, 40, 673-678.	3.1	45
43	Effect of hydrophobization on the properties of lime-metakaolin plasters. <i>Construction and Building Materials</i> , 2012, 37, 556-561.	3.2	44
44	Exterior thermal insulation systems for AAC building envelopes: Computational analysis aimed at increasing service life. <i>Energy and Buildings</i> , 2012, 47, 84-90.	3.1	43
45	Biomass fly ash as an alternative to coal fly ash in blended cements: Functional aspects. <i>Construction and Building Materials</i> , 2021, 271, 121544.	3.2	43
46	Application of Effective Media Theory for Determination of Thermal Properties of Hollow Bricks as a Function of Moisture Content. <i>International Journal of Thermophysics</i> , 2013, 34, 894-908.	1.0	42
47	Osmosis in porous media: A review of recent studies. <i>Microporous and Mesoporous Materials</i> , 2013, 170, 299-317.	2.2	42
48	Effective thermal conductivity of hollow bricks with cavities filled by air and expanded polystyrene. <i>Journal of Building Physics</i> , 2014, 37, 436-448.	1.2	42
49	Computational modelling of coupled water and salt transport in porous materials using diffusion-advection model. <i>Journal of the Franklin Institute</i> , 2011, 348, 1574-1587.	1.9	41
50	Properties of municipal solid waste incineration ashes with respect to their separation temperature. <i>Waste Management and Research</i> , 2012, 30, 1041-1048.	2.2	41
51	Apparent Thermal Properties of Phase-Change Materials: An Analysis Using Differential Scanning Calorimetry and Impulse Method. <i>International Journal of Thermophysics</i> , 2013, 34, 851-864.	1.0	41
52	Simultaneous DSC and TG analysis of high-performance concrete containing natural zeolite as a supplementary cementitious material. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 121, 67-73.	2.0	40
53	Characterization of geopolymers prepared using powdered brick. <i>Journal of Materials Research and Technology</i> , 2019, 8, 6253-6261.	2.6	39
54	Life cycle assessment of natural and recycled gypsum production in the Spanish context. <i>Journal of Cleaner Production</i> , 2020, 253, 120056.	4.6	38

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55	Determination of Moisture Diffusivity using the Time Domain Reflectometry (TDR) Method. Journal of Building Physics, 2006, 30, 59-70.	1.2	37
56	Thermal Properties of Alkali-activated Slag Subjected to High Temperatures. Journal of Building Physics, 2007, 30, 337-350.	1.2	37
57	Thermal Conductivity of Mineral Wool Materials Partially Saturated by Water. International Journal of Thermophysics, 2006, 27, 1214-1227.	1.0	36
58	Effect of High Temperatures on the Properties of Alkali Activated Aluminosilicate with Electrical Porcelain Filler. International Journal of Thermophysics, 2008, 29, 693-705.	1.0	36
59	Salt Damage and Rising Damp Treatment in Building Structures. Advances in Materials Science and Engineering, 2016, 2016, 1-13.	1.0	36
60	Non-steady-state methods for determining the moisture diffusivity of porous materials. International Communications in Heat and Mass Transfer, 1998, 25, 109-116.	2.9	35
61	Experimental analysis of coupled water and chloride transport in cement mortar. Cement and Concrete Composites, 2004, 26, 705-715.	4.6	35
62	Rational design of cement composites containing pozzolanic additions. Construction and Building Materials, 2017, 148, 411-418.	3.2	35
63	Early-stage hydration heat development in blended cements containing natural zeolite studied by isothermal calorimetry. Thermochimica Acta, 2014, 582, 53-58.	1.2	34
64	Carbon footprint analysis of calcined gypsum production in the Czech Republic. Journal of Cleaner Production, 2018, 177, 795-802.	4.6	34
65	Effect of applied weather data sets in simulation of building energy demands: Comparison of design years with recent weather data. Renewable and Sustainable Energy Reviews, 2019, 100, 22-32.	8.2	33
66	Excimer-laser-induced melting and solidification of monocrystalline Si: Equilibrium and nonequilibrium models. Physical Review B, 1991, 44, 4097-4102.	1.1	32
67	Determination of Moisture Diffusivity as a Function of Both Moisture and Temperature. International Journal of Thermophysics, 2012, 33, 1704-1714.	1.0	31
68	Properties of lime composites containing a new type of pozzolana for the improvement of strength and durability. Composites Part B: Engineering, 2012, 43, 3534-3540.	5.9	31
69	Effect of Moisture on Thermal Conductivity of Lime-Based Composites. International Journal of Thermophysics, 2009, 30, 1999-2014.	1.0	30
70	Inferring Bounded Evolution in Phenotypic Characters from Phylogenetic Comparative Data. Systematic Biology, 2016, 65, 651-661.	2.7	30
71	Effect of Moisture on the Thermal Conductivity of a Cementitious Composite. International Journal of Thermophysics, 2006, 27, 1228-1240.	1.0	29
72	Effect of cracks on hygric and thermal characteristics of concrete. Bauphysik, 2008, 30, 438-444.	1.2	29

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73	Computer aided design of interior thermal insulation system suitable for autoclaved aerated concrete structures. <i>Applied Thermal Engineering</i> , 2013, 58, 165-172.	3.0	29
74	Damage functions for the cold regions and their applications in hygrothermal simulations of different types of building structures. <i>Cold Regions Science and Technology</i> , 2017, 135, 1-7.	1.6	28
75	High temperature durability of fiber reinforced high alumina cement composites. <i>Construction and Building Materials</i> , 2018, 162, 881-891.	3.2	28
76	Effect of Cu-Zn coated steel fibers on high temperature resistance of reactive powder concrete. <i>Cement and Concrete Research</i> , 2019, 117, 45-57.	4.6	28
77	Hydration heat development in blended cements containing fine-ground ceramics. <i>Thermochimica Acta</i> , 2012, 543, 125-129.	1.2	27
78	Generation of a critical weather year for hygrothermal simulations using partial weather data sets. <i>Building and Environment</i> , 2014, 76, 54-61.	3.0	27
79	Lime-based plasters with combined expanded clay-silica aggregate: Microstructure, texture and engineering properties. <i>Cement and Concrete Composites</i> , 2017, 83, 374-383.	4.6	27
80	Thermal and hygric assessment of an inside-insulated brick wall: 2D critical experiment and computational analysis. <i>Journal of Building Physics</i> , 2018, 41, 497-520.	1.2	26
81	Chloride Binding in Building Materials. <i>Journal of Building Physics</i> , 2006, 29, 189-200.	1.2	25
82	Service Life Assessment of Historical Building Envelopes Constructed Using Different Types of Sandstone: A Computational Analysis Based on Experimental Input Data. <i>Scientific World Journal</i> , The, 2014, 2014, 1-12.	0.8	25
83	Preparation of self-heating alkali-activated materials using industrial waste products. <i>Journal of Cleaner Production</i> , 2020, 260, 121116.	4.6	25
84	Eucalyptus camaldulensis, Citrus aurantium, and Citrus sinensis Essential Oils as Antifungal Activity against <i>Aspergillus flavus</i> , <i>Aspergillus niger</i> , <i>Aspergillus terreus</i> , and <i>Fusarium culmorum</i> . <i>Processes</i> , 2020, 8, 1003.	1.3	25
85	Directly foamed geopolymers: A review of recent studies. <i>Cement and Concrete Composites</i> , 2022, 130, 104530.	4.6	25
86	Hydric, thermal and mechanical properties of self-compacting concrete containing different fillers. <i>Construction and Building Materials</i> , 2008, 22, 1594-1600.	3.2	24
87	Mechanical and Thermal Properties of Moderate-Strength Concrete with Ceramic Powder Used as Supplementary Cementitious Material. <i>Advanced Materials Research</i> , 0, 1054, 194-198.	0.3	24
88	Effect of cement composition on the early hydration of blended cements with natural zeolite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 721-733.	2.0	23
89	Effect of calcined Czech claystone on the properties of high performance concrete: Microstructure, strength and durability. <i>Construction and Building Materials</i> , 2018, 168, 966-974.	3.2	23
90	Fabrication of Dodecanol/Diatomite Shape-Stabilized PCM and Its Utilization in Interior Plaster. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	23

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91	Thermal and hygric properties of Portland cement mortar after high-temperature exposure combined with compressive stress. <i>Cement and Concrete Research</i> , 2003, 33, 1347-1355.	4.6	22
92	Study of excimer laser induced melting and solidification of Si by time-resolved reflectivity measurements. <i>Applied Physics A: Solids and Surfaces</i> , 1992, 54, 327-333.	1.4	21
93	Application of genetic algorithm for determination of water vapor diffusion parameters of building materials. <i>Journal of Building Physics</i> , 2012, 35, 238-250.	1.2	21
94	Effects of the type of calorimeter and the use of plasticizers and hydrophobizers on the measured hydration heat development of FGD gypsum. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 91, 791-796.	2.0	20
95	A Boltzmann transformation method for investigation of water vapor transport in building materials. <i>Journal of Building Physics</i> , 2012, 35, 213-223.	1.2	20
96	Pore Structure and Thermal Characteristics of Clay Bricks. <i>Advanced Materials Research</i> , 2014, 982, 104-107.	0.3	20
97	Monitoring Thermal Performance of Hollow Bricks with Different Cavity Fillers in Difference Climate Conditions. <i>International Journal of Thermophysics</i> , 2015, 36, 557-568.	1.0	20
98	Characterization of early-age hydration processes in lime-ceramic binders using isothermal calorimetry, X-ray diffraction and scanning electron microscopy. <i>Thermochimica Acta</i> , 2016, 633, 108-115.	1.2	20
99	Assessment of Wood-Based Fly Ash as Alternative Cement Replacement. <i>Sustainability</i> , 2020, 12, 9580.	1.6	20
100	Investigation of gypsum composites with different lightweight fillers. <i>Construction and Building Materials</i> , 2021, 297, 123791.	3.2	20
101	Application of a microwave impulse technique to the measurement of free water content in early hydration stages of cement paste. <i>Cement and Concrete Research</i> , 2003, 33, 93-102.	4.6	19
102	Mechanical and hygric properties of alkali-activated aluminosilicate composite with electrical porcelain aggregates. <i>Cement and Concrete Composites</i> , 2008, 30, 266-273.	4.6	19
103	Computational analysis of thermal performance of a passive family house built of hollow clay bricks. <i>Energy and Buildings</i> , 2014, 76, 211-218.	3.1	19
104	Ecotoxicity assessment of short- and medium-chain chlorinated paraffins used in polyvinyl-chloride products for construction industry. <i>Science of the Total Environment</i> , 2018, 640-641, 523-528.	3.9	19
105	Terrestrial eutrophication of building materials and buildings: An emerging topic in environmental studies. <i>Science of the Total Environment</i> , 2019, 689, 1316-1328.	3.9	19
106	Energy efficiency of latent heat storage systems in residential buildings: Coupled effects of wall assembly and climatic conditions. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 132, 110097.	8.2	19
107	Environmental Efficiency Aspects of Basalt Fibers Reinforcement in Concrete Mixtures. <i>Energies</i> , 2021, 14, 7736.	1.6	19
108	Nonequilibrium model of laser-induced phase change processes in amorphous silicon thin films. <i>Physical Review B</i> , 1998, 57, 194-202.	1.1	18

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109	The effects of thermal load and frost cycles on the water transport in two high-performance concretes. <i>Cement and Concrete Research</i> , 2001, 31, 1129-1140.	4.6	18
110	A fast computational approach for the determination of thermal properties of hollow bricks in energy-related calculations. <i>Energy</i> , 2015, 83, 749-755.	4.5	18
111	MSWI bottom ash as eco-aggregate in cement mortar design. , 2012, , .		18
112	Thermophysical properties of concrete for nuclear-safety related structures. <i>Cement and Concrete Research</i> , 1997, 27, 415-426.	4.6	17
113	A simple gravimetric method for determining the moisture diffusivity of building materials. <i>Construction and Building Materials</i> , 2003, 17, 223-228.	3.2	17
114	Application of isothermal calorimetry and thermal analysis for the investigation of calcined gypsumâ€“limeâ€“metakaolinâ€“water system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 115-122.	2.0	17
115	Highâ€“strength concrete based on ternary binder with high pozzolan content. <i>Structural Concrete</i> , 2018, 19, 1258-1267.	1.5	17
116	Time Domain Reflectometry flat sensor for non-invasive monitoring of moisture changes in building materials. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 165, 108091.	2.5	17
117	Application of ceramic waste in brick blocks with enhanced acoustic properties. <i>Journal of Cleaner Production</i> , 2020, 261, 121185.	4.6	17
118	Sustainable composite material based on surface-modified rape straw and environment-friendly adhesive. <i>Construction and Building Materials</i> , 2021, 300, 124036.	3.2	17
119	Effect of thermal decomposition processes on the thermal properties of carbon fiber reinforced cement composites in high-temperature range. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 90, 475-488.	2.0	16
120	Effect of temperature on the early-stage hydration characteristics of Portland cement: A large-volume calorimetric study. <i>Construction and Building Materials</i> , 2012, 36, 969-976.	3.2	16
121	Determination of the equivalent thermal conductivity of complex material systems with large-scale heterogeneities. <i>International Journal of Thermal Sciences</i> , 2014, 86, 365-373.	2.6	16
122	Effect of temperature on water vapor transport properties. <i>Journal of Building Physics</i> , 2014, 38, 156-169.	1.2	16
123	Modeling of radionuclide transport in porous media: A review of recent studies. <i>Journal of Nuclear Materials</i> , 2019, 526, 151765.	1.3	16
124	Reactive Powder Concrete Containing Basalt Fibers: Strength, Abrasion and Porosity. <i>Materials</i> , 2020, 13, 2948.	1.3	16
125	Computational analysis of hygrothermal performance of renovation renders. , 2010, , .		16
126	Apparent thermal conductivity approach at high-temperature measurements of porous materials. <i>Measurement: Journal of the International Measurement Confederation</i> , 2011, 44, 1220-1228.	2.5	15



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127	Thermal properties of alkali-activated aluminosilicate composite with lightweight aggregates at elevated temperatures. <i>Fire and Materials</i> , 2011, 35, 231-244.	0.9	15
128	Free of Volatile Organic Compounds Protection against Moisture in Building Materials/Zabezpieczenia Przegród Budowlanych Przed Wilgocią... Wolne Od Lotnych Związków Organicznych. <i>Ecological Chemistry and Engineering S</i> , 2014, 21, 401-411.	0.3	15
129	Coupled heat and moisture transport in damaged concrete under an atmospheric environment. <i>Construction and Building Materials</i> , 2017, 143, 607-620.	3.2	15
130	Application of heavy metals sorbent as reactive component in cementitious composites. <i>Journal of Cleaner Production</i> , 2018, 199, 565-573.	4.6	15
131	System for Testing the Hygrothermal Performance of Multi-Layered Building Envelopes. <i>Journal of Thermal Envelope and Building Science</i> , 2002, 25, 239-249.	0.5	14
132	Determination of a partial phase composition in calcined gypsum by calorimetric analysis of hydration kinetics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 109, 57-62.	2.0	14
133	Self-Heating Ability of Geopolymers Enhanced by Carbon Black Admixtures at Different Voltage Loads. <i>Energies</i> , 2019, 12, 4121.	1.6	14
134	Alkaline activation of low-reactivity ceramics: Peculiarities induced by the precursors' dual character. <i>Cement and Concrete Composites</i> , 2020, 105, 103440.	4.6	14
135	Antifungal activity of methylxanthines based on their properties. <i>BioResources</i> , 2020, 15, 8110-8120.	0.5	14
136	A model of binary alloy solidification with convection in the melt. <i>International Journal of Heat and Mass Transfer</i> , 1992, 35, 1787-1793.	2.5	13
137	Mechanical, Hygric, and Thermal Properties of Cement-Based Composite with Hybrid Fiber Reinforcement Subjected to High Temperatures. <i>International Journal of Thermophysics</i> , 2009, 30, 1310-1322.	1.0	13
138	Effect of Moisture Content on Thermal Properties of Porous Building Materials. <i>International Journal of Thermophysics</i> , 2017, 38, 1.	1.0	13
139	Preparation and Characterization of Novel Plaster with Improved Thermal Energy Storage Performance. <i>Energies</i> , 2019, 12, 3318.	1.6	13
140	Hydration of Ordinary Portland Cement in Presence of Lead Sorbed on Ceramic Sorbent. <i>Materials</i> , 2019, 12, 19.	1.3	13
141	Interior thermal insulation systems based on wood fiberboards: experimental analysis and computational assessment of hygrothermal and energy performance in the Central European climate. <i>Energy and Buildings</i> , 2020, 222, 110093.	3.1	13
142	Application of MSWI bottom ash as alternative aggregate in cement mortar. <i>WIT Transactions on Ecology and the Environment</i> , 2011, , .	0.0	13
143	Environmental Consequences of Rubber Crumb Application: Soil and Water Pollution. <i>Polymers</i> , 2022, 14, 1416.	2.0	13
144	Utilization of ceramic powder, calcined shale and sintered mullite as partial replacements of calcium aluminate cement. <i>Construction and Building Materials</i> , 2022, 326, 126824.	3.2	13

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145	Self-heating alkali activated materials: Microstructure and its effect on electrical, thermal and mechanical properties. <i>Construction and Building Materials</i> , 2022, 335, 127527.	3.2	13
146	Application of Time-Domain Reflectometry for Measurement of Moisture Profiles in a Drying Experiment. <i>International Journal of Thermophysics</i> , 2012, 33, 1661-1673.	1.0	12
147	Wet-Treated MSWI Fly Ash Used as Supplementary Cementitious Material. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-8.	1.0	12
148	Computational assessment of thermal performance of contemporary ceramic blocks with complex internal geometry in building envelopes. <i>Energy and Buildings</i> , 2015, 99, 61-66.	3.1	12
149	Multi-parameter optimization of lime composite design using a modified downhill simplex method. <i>Composites Part B: Engineering</i> , 2016, 93, 184-189.	5.9	12
150	Heat and Moisture Transport and Storage Parameters of Bricks Affected by the Environment. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	12
151	Determination of Moisture Content of Hygroscopic Building Materials Using Time Domain Reflectometry. <i>Journal of Applied Sciences</i> , 2008, 8, 1732-1737.	0.1	12
152	Bond Behavior of FRP Bars in Lightweight SCC under Direct Pull-Out Conditions: Experimental and Numerical Investigation. <i>Materials</i> , 2022, 15, 3555.	1.3	12
153	Measuring the effective specific heat of building materials. <i>Thermochimica Acta</i> , 1996, 282-283, 239-250.	1.2	11
154	THERMOPHYSICAL AND MECHANICAL PROPERTIES OF FIBER-REINFORCED COMPOSITE MATERIAL SUBJECTED TO HIGH TEMPERATURES. <i>Journal of Civil Engineering and Management</i> , 2010, 16, 395-400.	1.9	11
155	Theoretical and Experimental Analysis of Moisture-Dependent Thermal Conductivity of Lightweight Ceramic Bricks. <i>International Journal of Thermophysics</i> , 2014, 35, 1912-1921.	1.0	11
156	Energy Effects of Retrofitting the Educational Facilities Located in South-Eastern Poland. <i>Energies</i> , 2020, 13, 2449.	1.6	11
157	Numerical solution of the non-isothermal moving boundary problem in heat conduction. <i>Computer Physics Communications</i> , 1991, 64, 241-251.	3.0	10
158	Calorimetry of building materials. <i>Journal of Thermal Analysis</i> , 1995, 43, 489-496.	0.7	10
159	Water and Water Vapor Penetration Through Coatings. <i>Journal of Thermal Envelope and Building Science</i> , 2002, 26, 165-177.	0.5	10
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