

Robert Cerny

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.

434
papers

5,160
citations

36
h-index

56
g-index

604
ext. papers

6,379
ext. citations

3.3
avg, IF

6.09
L-index

#	Paper	IF	Citations
434	Thermotics As an Alternative Nonequilibrium Thermodynamic Approach Suitable for Real Thermoanalytical Measurements: A Short Review. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2022 , 47, 233-240	3.8	1
433	Limited interdisciplinary knowledge transfer as a missing link for sustainable building retrofits in the residential sector. <i>Journal of Cleaner Production</i> , 2022 , 343, 131079	10.3	0
432	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	6.7	0
431	Directly foamed geopolymers: A review of recent studies. <i>Cement and Concrete Composites</i> , 2022 , 130, 104530	8.6	0
430	Self-heating alkali activated materials: Microstructure and its effect on electrical, thermal and mechanical properties. <i>Construction and Building Materials</i> , 2022 , 335, 127527	6.7	1
429	Waste solidified alkalis as activators of aluminosilicate precursors: Functional and environmental evaluation. <i>Journal of Building Engineering</i> , 2022 , 104598	5.2	0
428	Bond Behavior of FRP Bars in Lightweight SCC under Direct Pull-Out Conditions: Experimental and Numerical Investigation. <i>Materials</i> , 2022 , 15, 3555	3.5	5
427	Structural Performance of Lightweight Aggregate Concrete Reinforced by Glass or Basalt Fiber Reinforced Polymer Bars. <i>Polymers</i> , 2022 , 14, 2142	4.5	0
426	Thermal inertia and evaluation of reaction kinetics: A critical review. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022 , 198, 111354	4.6	
425	Ecotoxicity and Biodegradation of Sustainable Environment-Friendly Bone-Glue-Based Adhesive Suitable for Insulation Materials. <i>Polymers</i> , 2022 , 14, 2209	4.5	
424	Environmental Efficiency Aspects of Basalt Fibers Reinforcement in Concrete Mixtures. <i>Energies</i> , 2021 , 14, 7736	3.1	2
423	Utilization of Crushed Pavement Blocks in Concrete: Assessment of Functional Properties and Environmental Impacts. <i>Materials</i> , 2021 , 14,	3.5	1
422	Advances and New Challenges for Recycled Aggregate Concrete. <i>Advances in Materials Science and Engineering</i> , 2021 , 2021, 1-2	1.5	
421	Efficacy of Caffeine Treatment for Wood Protection-Influence of Wood and Fungi Species. <i>Polymers</i> , 2021 , 13,	4.5	1
420	Improving the Energy Performance of Public Buildings Equipped with Individual Gas Boilers Due to Thermal Retrofitting. <i>Energies</i> , 2021 , 14, 1565	3.1	2
419	Factors influencing envelope airtightness of lightweight timber-frame houses built in the Czech Republic in the period of 2006-2019. <i>Building and Environment</i> , 2021 , 194, 107687	6.5	3
418	Influence of selected storage temperatures on wood properties and its biological resistance after the use of methylxanthines. <i>BioResources</i> , 2021 , 16, 6231-6243	1.3	2

4 ¹⁷	Effects of accelerated carbonation on properties of ceramic-based geopolymers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 2951-2966	4.1	
4 ¹⁶	Biomass fly ash as an alternative to coal fly ash in blended cements: Functional aspects. <i>Construction and Building Materials</i> , 2021 , 271, 121544	6.7	15
4 ¹⁵	Exploiting advantages of empirical and optimization approaches to design alkali activated materials in a more efficient way. <i>Construction and Building Materials</i> , 2021 , 292, 123460	6.7	2
4 ¹⁴	Investigation of gypsum composites with different lightweight fillers. <i>Construction and Building Materials</i> , 2021 , 297, 123791	6.7	1
4 ¹³	Sustainable composite material based on surface-modified rape straw and environment-friendly adhesive. <i>Construction and Building Materials</i> , 2021 , 300, 124036	6.7	6
4 ¹²	Computational compensation of systematic errors accompanying non-equilibrium thermocouple measurements. <i>International Journal of Thermal Sciences</i> , 2021 , 168, 107049	4.1	0
4 ¹¹	Alkali-activated waste ceramics: Importance of precursor particle size distribution. <i>Ceramics International</i> , 2021 , 47, 31574-31582	5.1	4
4 ¹⁰	Influence of Untreated Metal Waste from 3D Printing on Electrical Properties of Alkali-Activated Slag Mortars. <i>Energies</i> , 2021 , 14, 8178	3.1	
4 ⁰⁹	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	7	5
4 ⁰⁸	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 8178-8186	5.2	5
4 ⁰⁷	Energy Effects of Retrofitting the Educational Facilities Located in South-Eastern Poland. <i>Energies</i> , 2020 , 13, 2449	3.1	9
4 ⁰⁶	Computational Prediction of Susceptibility to Biofilms Growth: Two-Dimensional Analysis of Critical Construction Details. <i>Energies</i> , 2020 , 13, 293	3.1	1
4 ⁰⁵	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	4.6	9
4 ⁰⁴	Energy Efficiency of Novel Interior Surface Layer with Improved Thermal Characteristics and Its Effect on Hygrothermal Performance of Contemporary Building Envelopes. <i>Energies</i> , 2020 , 13, 2012	3.1	4
4 ⁰³	Phase composition of ceramic-based alkali-activated polymers: combination of X-ray diffraction and thermal analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 157-166	4.1	1
4 ⁰²	Application of ceramic waste in brick blocks with enhanced acoustic properties. <i>Journal of Cleaner Production</i> , 2020 , 261, 121185	10.3	7
4 ⁰¹	Influence of Superabsorbent Polymers on Moisture Control in Building Interiors. <i>Energies</i> , 2020 , 13, 2009	3.1	3
4 ⁰⁰	Antifungal activity of methylxanthines based on their properties. <i>BioResources</i> , 2020 , 15, 8110-8120	1.3	5

399	Evaluation of parameters influencing the withdrawal strength of oak and beech dowels. <i>BioResources</i> , 2020 , 15, 1665-1677	1.3	
398	Experimental and theoretical approach to determination of heat evolution in electrically conductive aluminosilicates. <i>Thermal Science</i> , 2020 , 24, 787-794	1.2	
397	Effect of limestone powder on strength and permeability of cementitious mortars. <i>MATEC Web of Conferences</i> , 2020 , 322, 01009	0.3	2
396	Transition to circular economy in the construction industry: Environmental aspects of waste brick recycling scenarios. <i>Waste Management</i> , 2020 , 118, 510-520	8.6	35
395	Characterization of ceramic-based alkali activated aluminosilicate composites 2020 ,		1
394	Application of the TDR measuring technique for in-situ measurements using surface probes. <i>Budownictwo I Architektura</i> , 2020 , 8, 097-106	0.2	
393	Alkaline activation of low-reactivity ceramics: Peculiarities induced by the precursors' dual character. <i>Cement and Concrete Composites</i> , 2020 , 105, 103440	8.6	7
392	Life cycle assessment of natural and recycled gypsum production in the Spanish context. <i>Journal of Cleaner Production</i> , 2020 , 253, 120056	10.3	20
391	Kinetics of pozzolanic reaction and carbonation in ceramic-lime system: Thermogravimetry and solid-state NMR spectroscopy study. <i>Journal of Building Engineering</i> , 2020 , 32, 101729	5.2	1
390	Basic physical and mechanical properties of cement composites after temperature exposure. <i>MATEC Web of Conferences</i> , 2020 , 322, 01001	0.3	0
389	Preparation of self-heating alkali-activated materials using industrial waste products. <i>Journal of Cleaner Production</i> , 2020 , 260, 121116	10.3	9
388	Uptake of caffeine by <i>Serpula lacrymans</i> 2020 ,		1
387	Assessment of Wood-Based Fly Ash as Alternative Cement Replacement. <i>Sustainability</i> , 2020 , 12, 9580	3.6	6
386	Mutual interactions of fungi and molds on woods treated with a caffeine solution: A preliminary study 2020 ,		2
385	Experimental and Computational Study of Thermal Processes in Red Clays Exposed to High Temperatures. <i>Energies</i> , 2020 , 13, 2211	3.1	1
384	Reactive Powder Concrete Containing Basalt Fibers: Strength, Abrasion and Porosity. <i>Materials</i> , 2020 , 13,	3.5	7
383	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	16.2	9
382	Utilization plasters with superabsorbent admixture to moderate moisture level in constructions. <i>E3S Web of Conferences</i> , 2020 , 172, 11009	0.5	

381	Effect of superabsorbent polymer admixtures on hygric and thermal properties of cement mortar. <i>E3S Web of Conferences</i> , 2020 , 172, 14011	0.5	0
380	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	2.9	8
379	Characterization of Responsive Plasters for Passive Moisture and Temperature Control. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 9116	2.6	3
378	Effect of Absorptivity of Superabsorbent Polymers on Design of Cement Mortars. <i>Materials</i> , 2020 , 13,	3.5	3
377	Interactions of superabsorbent polymers based on acrylamide substances with microorganisms occurring in human dwellings. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 195, 110522	7	2
376	Preparation and Characterization of Novel Plaster with Improved Thermal Energy Storage Performance. <i>Energies</i> , 2019 , 12, 3318	3.1	9
375	Data acquisition and acoustic modeling of heterogeneous building materials 2019 ,		1
374	Methods for determination of acoustic properties of building materials. <i>MATEC Web of Conferences</i> , 2019 , 282, 02061	0.3	
373	Modeling of radionuclide transport in porous media: A review of recent studies. <i>Journal of Nuclear Materials</i> , 2019 , 526, 151765	3.3	6
372	Effect of cyclic wetting and drying on microstructure, composition and length changes of lime-based plasters. <i>Cement and Concrete Composites</i> , 2019 , 104, 103411	8.6	4
371	Determination of effective specific heat capacity of interior plaster containing phase change materials. <i>MATEC Web of Conferences</i> , 2019 , 282, 02052	0.3	
370	A Method for Rapid Evaluation of Thermal Performance of Wall Assemblies Based on Geographical Location. <i>Energies</i> , 2019 , 12, 1353	3.1	3
369	Efficient Techniques for Solution of Complex Computational Tasks in Building Physics. <i>Advances in Civil Engineering</i> , 2019 , 2019, 1-11	1.3	0
368	Heat transport and storage processes in differential scanning calorimeter: Computational analysis and model validation. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 136, 355-364	4.9	6
367	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	6.5	25
366	Influence of free and sorbed zinc on cement hydration. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 138, 1935-1943	4.1	3
365	Terrestrial eutrophication of building materials and buildings: An emerging topic in environmental studies. <i>Science of the Total Environment</i> , 2019 , 689, 1316-1328	10.2	10
364	Transport of gadolinium in a cement composite. <i>MATEC Web of Conferences</i> , 2019 , 282, 02105	0.3	1

363	Characterization of geopolymers prepared using powdered brick. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 6253-6261	5.5	18
362	Pore structure and hygric properties of composite materials for radionuclide protection barriers. <i>MATEC Web of Conferences</i> , 2019 , 282, 02055	0.3	
361	Monitoring the course of early-age reactions in alkali activated aluminosilicates. <i>MATEC Web of Conferences</i> , 2019 , 282, 02056	0.3	
360	Growth effectivity of molds in contact with methylxanthines. <i>MATEC Web of Conferences</i> , 2019 , 282, 02058	0.3	1
359	Mechanical properties of concrete for radioactive waste repositories. <i>MATEC Web of Conferences</i> , 2019 , 282, 02104	0.3	
358	Monetized environmental assessment of interior thermal insulation. <i>MATEC Web of Conferences</i> , 2019 , 282, 02106	0.3	
357	Influence of concentration change of calcium ions over time on their diffusion through sandstone. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 549, 012043	0.4	
356	Utilization of hydrophilic cellulose fibers for preparation of plaster with enhanced moisture control capability. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 549, 012045	0.4	
355	Enhancement of sorption capacity to Sr and Cs of a cement composite by addition of brick powder. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 549, 012046	0.4	
354	Self-Heating Ability of Geopolymers Enhanced by Carbon Black Admixtures at Different Voltage Loads. <i>Energies</i> , 2019 , 12, 4121	3.1	5
353	Moisture sorption and thickness swelling of wood-based materials intended for structural use in humid conditions and bonded with melamine resin. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 549, 012042	0.4	
352	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	10.3	13
351	Effect of applied weather data sets in simulation of building energy demands: Comparison of design years with recent weather data. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 100, 22-32	16.2	17
350	Experimental Determination of Heat and Moisture Transport Properties of AAC in the Range of Subzero to Room Temperatures. <i>International Journal of Thermophysics</i> , 2019 , 40, 1	2.1	2
349	Hydration of Ordinary Portland Cement in Presence of Lead Sorbed on Ceramic Sorbent. <i>Materials</i> , 2018 , 12,	3.5	6
348	Porous Structure and Hygric Properties of Concrete for Radioactive Waste Repositories. <i>Key Engineering Materials</i> , 2018 , 760, 127-131	0.4	1
347	Influence of Supplementary Cementitious Materials on the Properties of Concrete for Secondary Protection Barrier in Radioactive Waste Repositories. <i>Key Engineering Materials</i> , 2018 , 760, 96-101	0.4	
346	High-strength concrete based on ternary binder with high pozzolan content. <i>Structural Concrete</i> , 2018 , 19, 1258-1267	2.6	11

345	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	6.7	13
344	Heat and Moisture Transport and Storage Parameters of Bricks Affected by the Environment. <i>International Journal of Thermophysics</i> , 2018 , 39, 1	2.1	9
343	Mechanical and Basic Physical Properties of High-Strength Concrete Exposed to Elevated Temperatures. <i>Key Engineering Materials</i> , 2018 , 760, 108-113	0.4	1
342	High temperature durability of fiber reinforced high alumina cement composites. <i>Construction and Building Materials</i> , 2018 , 162, 881-891	6.7	16
341	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	2.6	14
340	Carbon footprint analysis of calcined gypsum production in the Czech Republic. <i>Journal of Cleaner Production</i> , 2018 , 177, 795-802	10.3	20
339	Determination of Thermal Conductivity of Silicate Matrix for Applications in Effective Media Theory. <i>International Journal of Thermophysics</i> , 2018 , 39, 1	2.1	2
338	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	4.3	29
337	Red-clay ceramic powders as geopolymer precursors: Consideration of amorphous portion and CaO content. <i>Applied Clay Science</i> , 2018 , 161, 82-89	5.2	35
336	Application of heavy metals sorbent as reactive component in cementitious composites. <i>Journal of Cleaner Production</i> , 2018 , 199, 565-573	10.3	11
335	Computational modelling of thermal processes in a calorimetric experiment 2018 ,		1
334	Experimental Determination of Frost Resistance of Autoclaved Aerated Concrete at Different Levels of Moisture Saturation. <i>International Journal of Thermophysics</i> , 2018 , 39, 1	2.1	2
333	Complex assessment of reconstruction works on an institutional building: A case study. <i>Journal of Cleaner Production</i> , 2018 , 202, 871-882	10.3	6
332	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	10.2	12
331	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	6.7	56
330	Blended Cements with Calcined Illitic Clay: Workability and Hydration. <i>RILEM Bookseries</i> , 2018 , 310-317	0.5	8
329	Physical and chemical characterization of technogenic pozzolans for the application in blended cements. <i>Construction and Building Materials</i> , 2018 , 160, 106-116	6.7	34
328	Microclimate of a former treasury in Cathedral of Assumption of Our Lady and Saint John the Baptist in Sedlec [Long-time analysis 2018 ,		1

327	Methodology of sealing plugs development for brick block with enhanced acoustic properties 2018		1
326	Retrofitting of building envelopes: Evaluation of effectiveness using weather-affected material parameters. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 415, 012009	0.4	
325	Analysis of the Frost-Induced Damage of Building Enclosures on the Territory of the Czech Republic. <i>Advances in Materials Science and Engineering</i> , 2018 , 2018, 1-11	1.5	3
324	Basic physical, mechanical and hygric properties of renders suitable for historical buildings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 364, 012068	0.4	
323	Hygric and mechanical parameters of ternary binder based plasters lightweighted by expanded perlite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 379, 012004	0.4	
322	Evaluation of thermal performance of window lintel construction detail. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 415, 012015	0.4	2
321	Formulation of a hygrothermal model for description of ice-forming process in porous building materials 2018 ,		2
320	Mechanical and thermal properties of concrete suitable for radioactive waste disposal sites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 385, 012061	0.4	1
319	Determination of material parameters of thermal insulation boards for the application on interior side of historical walls. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 364, 012067	0.4	0
318	Computational simulation of hygrothermal processes in historical building envelopes provided with interior thermal insulation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 364, 012009	0.4	1
317	Rheological and mechanical properties of alkali-activated brick powder based pastes: effect of amount of alkali activator. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 379, 012011	0.4	3
316	Advances in Building Technologies and Construction Materials 2018. <i>Advances in Materials Science and Engineering</i> , 2018 , 2018, 1-3	1.5	
315	Fabrication of Dodecanol/Diatomite Shape-Stabilized PCM and Its Utilization in Interior Plaster. <i>International Journal of Thermophysics</i> , 2018 , 39, 1	2.1	13
314	Mechanical and hygric properties of lime plasters modified by biomass fly ash. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 365, 032059	0.4	2
313	Application of waste brick powder in alkali activated aluminosilicates: Functional and environmental aspects. <i>Journal of Cleaner Production</i> , 2018 , 194, 714-725	10.3	68
312	Monitoring the effect of external conditions on the properties of building materials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 365, 032051	0.4	
311	Thermal analysis of high-performance mortar containing burnt clay shale as a partial portland cement replacement in the temperature range up to 1000 °C. <i>Fire and Materials</i> , 2017 , 41, 54-64	1.8	5
310	Behavior of Sandstones Under Heat Treatment. <i>International Journal of Thermophysics</i> , 2017 , 38, 1	2.1	4

309	Computational analysis of heat transport and storage processes in large-volume isothermal heat flow calorimeter. <i>Applied Thermal Engineering</i> , 2017 , 121, 547-553	5.8	3
308	Coupled heat and moisture transport in damaged concrete under an atmospheric environment. <i>Construction and Building Materials</i> , 2017 , 143, 607-620	6.7	9
307	Rational design of cement composites containing pozzolanic additions. <i>Construction and Building Materials</i> , 2017 , 148, 411-418	6.7	22
306	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	3.8	14
305	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	4.1	13
304	Effect of Moisture Content on Thermal Properties of Porous Building Materials. <i>International Journal of Thermophysics</i> , 2017 , 38, 1	2.1	10
303	Identification of Moisture Diffusivity of Autoclaved Aerated Concrete in the Form of Smooth Two-Variable Function. <i>Energy Procedia</i> , 2017 , 132, 219-224	2.3	1
302	Influence of weather-affected material characteristics on appearance of freeze/thaw cycles in building envelopes 2017 ,		1
301	Effect of hygric and thermal properties of connecting layers on the performance of interior thermal insulation systems 2017 ,		3
300	Assessment of fast heat evolving processes using inverse analysis of calorimetric data. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 831-838	4.9	6
299	Ecotoxicology of building materials: A critical review of recent studies. <i>Journal of Cleaner Production</i> , 2017 , 165, 500-508	10.3	29
298	Simultaneous thermal analysis and thermomodilatometry of hybrid fiber reinforced UHPC 2017 ,		2
297	Steel and PVA Fibres Reinforced UHPC Exposed to High Temperatures - Analysis of Residual Properties. <i>Materials Science Forum</i> , 2017 , 902, 26-32	0.4	
296	Lime-based plasters with combined expanded clay-silica aggregate: Microstructure, texture and engineering properties. <i>Cement and Concrete Composites</i> , 2017 , 83, 374-383	8.6	13
295	Ternary binder based plasters with improved thermal insulating ability. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 251, 012008	0.4	1
294	Effect of silica fume on hydration of air-cured blended cement pastes measured by DSC/TG analysis 2017 ,		1
293	Effect of Weather Data Selection on Simulated Moisture and Temperature Fields in Building Envelopes in Central Europe. <i>Energy Procedia</i> , 2017 , 132, 514-519	2.3	3
292	Experimental analysis of electrical properties of composite materials 2017 ,		2

291	Chapel of cemetery church of all saints in Sedlec □ Long-term analysis of hygrothermal conditions 2017 ,		2
290	Hydration heat of alkali activated fine-grained ceramic 2017 ,		1
289	Application of infrared thermography in complex moisture inspection of the Schebek Palace 2017 ,		3
288	Effect of the mode and dynamics of thermal processes on DSC-acquired phase-change temperature and latent heat of different kinds of PCM. <i>Materiali in Tehnologije</i> , 2017 , 51, 919-924	1.6	2
287	Basic physical, mechanical and electrical properties of electrically enhanced alkali-activated aluminosilicates. <i>Materiali in Tehnologije</i> , 2017 , 51, 1005-1009	1.6	5
286	Application of Ceramic Powder as Supplementary Cementitious Material in Lime Plasters. <i>Medziagotyra</i> , 2016 , 22,	0.4	2
285	Hygric Properties of Lime-cement Plasters with the Addition of a Pozzolana. <i>Procedia Engineering</i> , 2016 , 151, 127-132		2
284	A Method for Optimizing Lightweight-Gypsum Design Based on Sequential Measurements of Physical Parameters. <i>Measurement Science Review</i> , 2016 , 16, 160-166	1.7	2
283	Experimental and Theoretical Study of Heat Transport Parameters of Plasters Containing Pozzolanic Admixtures. <i>Key Engineering Materials</i> , 2016 , 675-676, 569-572	0.4	
282	Moisture properties of the lightweight brick body 2016 ,		1
281	Long-term monitoring of the Sedlec Ossuary □ Analysis of hygrothermal conditions 2016 ,		3
280	Influence of various amount of diatomaceous earth used as cement substitute on mechanical properties of cement paste 2016 ,		4
279	Mechanical and thermal properties of the Czech marbles 2016 ,		1
278	Seebeck effect influence on joule heat evolution in electrically conductive silicate materials 2016 ,		1
277	Hydration of blended cement pastes containing waste ceramic powder as a function of age 2016 ,		1
276	The Comparison of Water, Water Vapour Transport Properties and Mechanical Characterization of Two Commercial Plasters on Market in the Czech Republic. <i>Key Engineering Materials</i> , 2016 , 722, 357-361 ^{0.4}		
275	A Laboratory Experiment for Monitoring the Time Development of Water Freezing Processes in Porous Materials and Its Computational Analysis. <i>International Journal of Thermophysics</i> , 2016 , 37, 1	2.1	3
274	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 ^{2.9}		13

273	Pore System and Hydric Properties of Two Different Lime Plasters with Finely Crushed Brick. <i>Key Engineering Materials</i> , 2016 , 675-676, 597-600	0.4	3
272	Identification of Water Diffusivity of Inorganic Porous Materials Using Evolutionary Algorithms. <i>Transport in Porous Media</i> , 2016 , 113, 51-66	3.1	1
271	Multi-parameter optimization of lime composite design using a modified downhill simplex method. <i>Composites Part B: Engineering</i> , 2016 , 93, 184-189	10	9
270	Simultaneous Differential Scanning Calorimetry and Thermogravimetric Analysis of Portland Cement as a Function of Age. <i>International Journal of Thermophysics</i> , 2016 , 37, 1	2.1	7
269	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	2.1	40
268	Inferring Bounded Evolution in Phenotypic Characters from Phylogenetic Comparative Data. <i>Systematic Biology</i> , 2016 , 65, 651-61	8.4	21
267	Engineering properties of composite materials containing waste ceramic dust from advanced hollow brick production as a partial replacement of Portland cement. <i>Journal of Building Physics</i> , 2016 , 40, 17-34	2.6	6
266	Energy-efficient thermal treatment of sewage sludge for its application in blended cements. <i>Journal of Cleaner Production</i> , 2016 , 112, 409-419	10.3	73
265	High Temperature Exposure of HPC [Experimental Analysis of Residual Properties and Thermal Response. <i>MATEC Web of Conferences</i> , 2016 , 63, 01004	0.3	1
264	Strength Development and Physical Properties of Cement Paste with Incorporated Ceramic Powder. <i>Medziagotyra</i> , 2016 , 22,	0.4	2
263	Properties of Hydrophilic Mineral Wool for Desalination of Historical Masonry. <i>Medziagotyra</i> , 2016 , 22,	0.4	1
262	Salt Damage and Rising Damp Treatment in Building Structures. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-13	1.5	28
261	Water Vapor Diffusion and Adsorption of Sandstones: Influence of Rock Texture and Composition. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-7	1.5	6
260	Advances in Building Technologies and Construction Materials 2016. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-2	1.5	3
259	The influence of inner hydrophobisation on water transport properties of modified lime plasters 2016 ,		1
258	Effect of water-ice phase change on thermal performance of building materials 2016 ,		2
257	UHPRC at high temperatures [Simultaneous thermal analysis and thermodilatometry 2016 ,		2
256	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	7	40

255	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	4.3	29
254	Measurement of the contribution of radiation to the apparent thermal conductivity of fiber reinforced cement composites exposed to elevated temperatures. <i>International Journal of Thermal Sciences</i> , 2016 , 100, 298-304	4.1	3
253	Contribution of waste products in single-layer ceramic building envelopes to overall energy savings. <i>Energy</i> , 2016 , 111, 947-955	7.9	4
252	Basic Physical and Mechanical Properties of Composites Based on Three Different Cements. <i>Key Engineering Materials</i> , 2016 , 677, 186-190	0.4	0
251	Mechanical, durability and hygrothermal properties of concrete produced using Portland cement-ceramic powder blends. <i>Structural Concrete</i> , 2016 , 17, 105-115	2.6	29
250	Joint BratislavaPrague studies of radiocarbon and uranium in the environment using accelerator mass spectrometry and radiometric methods. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 304, 67-73	1.5	6
249	Monitoring Thermal Performance of Hollow Bricks with Different Cavity Fillers in Different Climate Conditions. <i>International Journal of Thermophysics</i> , 2015 , 36, 557-568	2.1	16
248	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	4.1	28
247	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	7	10
246	Traditional fired-clay bricks versus large and highly perforated fired-clay bricks masonry 2015 , 63-81		2
245	Characterization of Cement Pastes Containing Natural Zeolite as a Pozzolanic Admixture. <i>Applied Mechanics and Materials</i> , 2015 , 719-720, 206-209	0.3	4
244	Experimental Analysis of Different Kinds of Sandstone for Reconstruction of Historical Masonry. <i>Applied Mechanics and Materials</i> , 2015 , 719-720, 210-213	0.3	1
243	A fast computational approach for the determination of thermal properties of hollow bricks in energy-related calculations. <i>Energy</i> , 2015 , 83, 749-755	7.9	10
242	Application of isothermal calorimetry and thermal analysis for the investigation of calcined gypsum-metakaolin-water system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 122, 115-122	4.1	12
241	Water transport parameters of autoclaved aerated concrete: Experimental assessment of different modeling approaches. <i>Journal of Building Physics</i> , 2015 , 39, 170-188	2.6	6
240	Effect of cation type on chloride binding in building stones 2015 ,		1
239	Characterization of a lime-pozzolan plaster containing phase change material 2015 ,		1
238	Software for service life assessment of historical buildings: Implementation of coupled heat, moisture and salt transport model 2015 ,		1

237	Modification of the computational model of coupled heat and moisture transport: The transition between the liquid and gaseous phases of water 2015 ,		3
236	In-situ analysis of hygric performance of piaristic monastery building 2015 ,		4
235	Applicability of contemporary ceramic bricks for the reconstruction of historical masonry 2015 ,		3
234	Parameters describing the coupled water and nitrate transport and storage in materials of historical masonry 2015 ,		2
233	Red Ceramic Wastes: A Calcined Clay Pozzolan. <i>RILEM Bookseries</i> , 2015 , 179-187	0.5	1
232	Model Formulas for facilitating determination of concentration-dependent diffusion coefficients. <i>Metals and Materials International</i> , 2015 , 21, 907-912	2.4	1
231	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	8.6	81
230	Uncertainty Analysis of Computational-Experimental Approach for Determination of Equivalent Thermal Conductivity of Highly Perforated Bricks. <i>Advanced Materials Research</i> , 2015 , 1126, 105-110	0.5	
229	In Situ Examination and Laboratory Testing of the Enclosure Wall of the Star Game Preserve. <i>Advanced Materials Research</i> , 2015 , 1126, 137-142	0.5	
228	Phase Change Materials: A Prospective Solution for Surface Layers of Building Envelopes. <i>Applied Mechanics and Materials</i> , 2015 , 749, 415-419	0.3	
227	A Contribution to the Analysis of Water Vapor Transport in Porous Building Materials. <i>Materials Science Forum</i> , 2015 , 824, 111-115	0.4	
226	Validation of Genetic Programming Tool for the Inverse Analysis of Moisture Transport in Building Materials. <i>Advanced Materials Research</i> , 2015 , 1126, 75-80	0.5	0
225	Application of a Transient Method for Investigation of Water Vapour Transport Properties of Autoclaved Aerated Concrete. <i>Materials Science Forum</i> , 2015 , 824, 95-99	0.4	
224	Determination of Radiative Heat Transfer Coefficient at High Temperatures Using a Combined Experimental-Computational Technique. <i>Measurement Science Review</i> , 2015 , 15, 85-91	1.7	4
223	Fast Inverse-Analysis Calculation of Diffusion Coefficient for Salt Transport in Porous Building Materials. <i>Advanced Materials Research</i> , 2015 , 1126, 117-122	0.5	2
222	A Contribution to the Treatment of Salt Damage in Historical Buildings. <i>Materials Science Forum</i> , 2015 , 824, 127-132	0.4	
221	Study of Mass Changes of Cement Pastes as a Function of Age Using Thermogravimetry. <i>Materials Science Forum</i> , 2015 , 824, 43-47	0.4	
220	Application of a-SiO ₂ Rich Additives in Cement Paste. <i>Applied Mechanics and Materials</i> , 2015 , 749, 362-367	3	4

219	Thermogravimetry of Portland Cement from Argentina and Czech Republic. <i>Advanced Materials Research</i> , 2015 , 1126, 169-173	0.5	2
218	Effect of External Environment on the Properties of Selected Plasters. <i>Advanced Materials Research</i> , 2015 , 1125, 377-381	0.5	
217	In Situ Analysis of Hygrothermal Performance of the Sedlec Ossuary. <i>Advanced Materials Research</i> , 2015 , 1126, 22-27	0.5	
216	Determination of Salt Transport Properties of Sandstone: A Combined Experimental/Computational Approach. <i>Advanced Materials Research</i> , 2015 , 1125, 382-386	0.5	
215	Thermal Properties of High-Performance Concrete Containing Fine-Ground Ceramics as a Partial Cement Replacement. <i>Medziagotyra</i> , 2015 , 21,	0.4	2
214	Treated Coconut Coir Pith as Component of Cementitious Materials. <i>Advances in Materials Science and Engineering</i> , 2015 , 2015, 1-8	1.5	5
213	Role of Time Relaxation in a One-Dimensional Diffusion-Advection Model of Water and Salt Transport. <i>Advances in Mathematical Physics</i> , 2015 , 2015, 1-6	1.1	1
212	Advances in Building Technologies and Construction Materials. <i>Advances in Materials Science and Engineering</i> , 2015 , 2015, 1-3	1.5	3
211	Wet-Treated MSWI Fly Ash Used as Supplementary Cementitious Material. <i>Advances in Materials Science and Engineering</i> , 2015 , 2015, 1-8	1.5	7
210	Moisture dependent thermal properties of hydrophilic mineral wool: application of the effective media theory. <i>Medziagotyra</i> , 2015 , 21,	0.4	1
209	Application of fluorometric and numerical analysis for assessing the algal resistance of external thermal insulation composite systems. <i>Journal of Building Physics</i> , 2015 , 38, 290-316	2.6	2
208	Determination of the positive weather year for application in hygrothermal simulations 2015 ,		5
207	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	6.7	46
206	Coupled Water and Salt Transport in Porous Materials: Rapid Determination of a Varying Diffusion Coefficient from Experimental Data. <i>Transport in Porous Media</i> , 2014 , 105, 597-610	3.1	4
205	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	4.1	14
204	Effect of temperature on water vapor transport properties. <i>Journal of Building Physics</i> , 2014 , 38, 156-169	2.6	13
203	Generation of a critical weather year for hygrothermal simulations using partial weather data sets. <i>Building and Environment</i> , 2014 , 76, 54-61	6.5	13
202	Early-stage hydration heat development in blended cements containing natural zeolite studied by isothermal calorimetry. <i>Thermochimica Acta</i> , 2014 , 582, 53-58	2.9	17

201	Calcined gypsum metakaolin binders: Design of optimal composition. <i>Cement and Concrete Composites</i> , 2014 , 52, 91-96	8.6	47
200	Adsorption isotherm predicted from a lattice gas with general lateral interactions in a single-phase regime. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P12006	1.9	2
199	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, The</i> , 2014 , 2014, 802509	2.2	13
198	Free of Volatile Organic Compounds Protection against Moisture in Building Materials/Zabezpieczenia Przegród Budowlanych Przed Wilgoci Wolne Od Lotnych Związków Organicznych. <i>Ecological Chemistry and Engineering S</i> , 2014 , 21, 401-411	1.3	9
197	Theoretical and Experimental Analysis of Moisture-Dependent Thermal Conductivity of Lightweight Ceramic Bricks. <i>International Journal of Thermophysics</i> , 2014 , 35, 1912-1921	2.1	11
196	Influence of Metashale as Cement Replacement on the Hygric Transport Properties of Concrete. <i>Advanced Materials Research</i> , 2014 , 1054, 188-193	0.5	4
195	Application of Thermally Treated Sewage Sludge in Blended Cements. <i>Advanced Materials Research</i> , 2014 , 905, 191-194	0.5	3
194	A Comparative Study on Thermal Properties of Two Types of Concrete Containing Fine Ceramic Waste and Burnt Clay Shale as a Supplementary Material. <i>Advanced Materials Research</i> , 2014 , 982, 79-83	0.5	2
193	Heat and Water Vapor Transport Properties of Selected Commercially Produced Plasters. <i>Advanced Materials Research</i> , 2014 , 982, 90-93	0.5	7
192	Application of Two Different Methods for Determination of Water and Chloride Transport Parameters of Building Stones. <i>Applied Mechanics and Materials</i> , 2014 , 595, 143-148	0.3	
191	Mechanical and Thermal Properties of Composites Containing Waste Coir Pith. <i>Advanced Materials Research</i> , 2014 , 1054, 238-242	0.5	5
190	Cement Composites for High Temperature Applications. <i>Advanced Materials Research</i> , 2014 , 982, 154-158	0.5	6
189	Effect of Heating and Cooling Mode on Temperature and Enthalpy of Phase Changes in PCM Modified Plaster. <i>Applied Mechanics and Materials</i> , 2014 , 595, 149-154	0.3	4
188	Effect of Zeolite Admixture on Freeze/Thaw Resistance of Concrete Exposed to the Dynamic Climatic Conditions. <i>Advanced Materials Research</i> , 2014 , 982, 27-31	0.5	3
187	Application of Digital Optical Microscopy in Materials and Mechanical Engineering: Optical Porosimetry and Crack Detection. <i>Advanced Materials Research</i> , 2014 , 982, 68-73	0.5	
186	Reuse of Waste Ceramic Powder with a High Content of Amorphous Phases as Partial Replacement of Portland Cement. <i>Advanced Materials Research</i> , 2014 , 905, 212-215	0.5	7
185	Effect of Freeze/Thaw Cycles on the Physical Properties of Selected Building Stones. <i>Advanced Materials Research</i> , 2014 , 1035, 83-88	0.5	1
184	Hygric Transport Parameters of Several Kinds of Sandstones. <i>Applied Mechanics and Materials</i> , 2014 , 621, 24-29	0.3	

183	Determination of Hygric Properties of Hollow Brick Block as a Function of Moisture Content. <i>Advanced Materials Research, 2014, 982, 54-58</i>	0.5	
182	Analysis of Thermal Conductivity of Lime Plaster with Pozzolanic Addition by Different Homogenization Techniques. <i>Advanced Materials Research, 2014, 982, 1-5</i>	0.5	
181	Mechanical and Thermal Properties of Moderate-Strength Concrete with Ceramic Powder Used as Supplementary Cementitious Material. <i>Advanced Materials Research, 2014, 1054, 194-198</i>	0.5	19
180	Effective thermal conductivity of hollow bricks with cavities filled by air and expanded polystyrene. <i>Journal of Building Physics, 2014, 37, 436-448</i>	2.6	30
179	Thermal Properties of Selected Timbers. <i>Advanced Materials Research, 2014, 982, 100-103</i>	0.5	3
178	Mechanical Behavior of the Cement Mortar with High Amount of Municipal Solid Waste Incineration (MSWI) Bottom Ash as an Alternative Aggregate. <i>Advanced Materials Research, 2014, 982, 74-78</i>	0.5	1
177	Differences in the Properties of Arenaceous Marlstones from Different Quarries. <i>Advanced Materials Research, 2014, 982, 149-153</i>	0.5	
176	Retention Curves of Different Types of Sandstone. <i>Advanced Materials Research, 2014, 982, 44-48</i>	0.5	3
175	Application of Zeolite as a Partial Replacement of Cement in Concrete Production. <i>Applied Mechanics and Materials, 2014, 621, 30-34</i>	0.3	3
174	Properties of Cement Composites Containing Coir Pith. <i>Advanced Materials Research, 2014, 982, 136-140</i>	0.5	3
173	Comparison of Two Different Modes of Inverse Analysis Used for Determination of Moisture Diffusivity of Building Materials. <i>Advanced Materials Research, 2014, 982, 49-53</i>	0.5	2
172	Influence of Basalt Fibres and Aggregates on the Thermal Expansion of Cement-Based Composites. <i>Advanced Materials Research, 2014, 1054, 17-21</i>	0.5	4
171	Relationship between Pore Size Distribution and Mechanical Properties of Porous Sedimentary Rocks. <i>Advanced Materials Research, 2014, 905, 207-211</i>	0.5	4
170	Lime Plasters Containing Waste Ceramic Powder as Partial Replacement of Siliceous Aggregates. <i>Advanced Materials Research, 2014, 1035, 77-82</i>	0.5	3
169	Pore Structure and Thermal Characteristics of Clay Bricks. <i>Advanced Materials Research, 2014, 982, 104-107</i>	0.5	12
168	Properties of Lime Plasters with Different Ceramic Powder Dosage. <i>Applied Mechanics and Materials, 2014, 621, 19-23</i>	0.3	5
167	Effect of Porosity on Mechanical and Hygric Properties of Concrete with Natural Pozzolan Addition. <i>Advanced Materials Research, 2014, 982, 22-26</i>	0.5	1
166	Moisture Transport Properties of Hydrophilic Mineral Wool. <i>Advanced Materials Research, 2014, 982, 6-10</i>	0.5	1

165	Pore Distribution and Water Vapor Diffusion Parameters of Lime Plasters with Waste Brick Powder. <i>Advanced Materials Research</i> , 2014 , 1054, 205-208	0.5	7
164	Computational analysis of thermal performance of a passive family house built of hollow clay bricks. <i>Energy and Buildings</i> , 2014 , 76, 211-218	7	17
163	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	2.1	39
162	Waste ceramics as supplementary cementitious material: characterization and utilization 2014 ,		2
161	The properties of innovated mortars utilizing secondary raw material 2014 ,		3
160	The thermal and mechanical performance of cement-based composites with enhanced thermal insulation properties 2014 ,		6
159	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	2.1	31
158	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	2.1	34
157	Experimental Assessment of Thermal Conductivity of a Brick Block with Internal Cavities Using a Semi-scale Experiment. <i>International Journal of Thermophysics</i> , 2013 , 34, 909-915	2.1	7
156	Hygric, thermal and durability properties of autoclaved aerated concrete. <i>Construction and Building Materials</i> , 2013 , 41, 352-359	6.7	127
155	Computer aided design of interior thermal insulation system suitable for autoclaved aerated concrete structures. <i>Applied Thermal Engineering</i> , 2013 , 58, 165-172	5.8	23
154	Osmosis in porous media: A review of recent studies. <i>Microporous and Mesoporous Materials</i> , 2013 , 170, 299-317	5.3	33
153	High Temperature Testing of Cement Mortar Containing MSWI Bottom Ash. <i>Applied Mechanics and Materials</i> , 2013 , 377, 55-59	0.3	2
152	Thermal Properties of PVA-Fiber Reinforced Cement Composites at High Temperatures. <i>Applied Mechanics and Materials</i> , 2013 , 377, 45-49	0.3	6
151	Determination of moisture-dependent moisture diffusivity using smoothed experimental data 2013 ,		3
150	A material database for computational models of heat, moisture, salt and momentum transport: Construction of the code as an input module and example of application 2013 ,		3
149	Database of climatic data as a rewarding tool for inclusion of weather observations in computational service life assessments of historical buildings 2013 ,		4
148	Mechanical, hygric and thermal properties of building stones 2013 ,		4

147	Hygrothermal performance of innovative renovation renders used for different types of historical masonry. <i>WIT Transactions on State-of-the-art in Science and Engineering</i> , 2013 , 121-131		1
146	Effective hygric and thermal parameters of historical masonry accessed on effective media theory principles. <i>WIT Transactions on State-of-the-art in Science and Engineering</i> , 2013 , 87-98		
145	Mechanical, fracture-mechanical, hygric, thermal, and durability properties of lime-hetaokaolin plasters for renovation of historical buildings. <i>Construction and Building Materials</i> , 2012 , 31, 22-28	6.7	66
144	Exterior thermal insulation systems for AAC building envelopes: Computational analysis aimed at increasing service life. <i>Energy and Buildings</i> , 2012 , 47, 84-90	7	32
143	Water Vapor Adsorption in Porous Building Materials: Experimental Measurement and Theoretical Analysis. <i>Transport in Porous Media</i> , 2012 , 91, 939-954	3.1	52
142	An isothermal heat flow calorimeter for large-volume applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 110, 1021-1027	4.1	7
141	Determination of Moisture Diffusivity as a Function of Both Moisture and Temperature. <i>International Journal of Thermophysics</i> , 2012 , 33, 1704-1714	2.1	19
140	Application of Time-Domain Reflectometry for Measurement of Moisture Profiles in a Drying Experiment. <i>International Journal of Thermophysics</i> , 2012 , 33, 1661-1673	2.1	9
139	Hydration heat development in blended cements containing fine-ground ceramics. <i>Thermochimica Acta</i> , 2012 , 543, 125-129	2.9	22
138	Application of large-volume calorimetry for monitoring the early-stage hydration heat development in cement-based composites as a function of w/c. <i>Thermochimica Acta</i> , 2012 , 546, 44-48	2.9	9
137	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	6.7	12
136	Properties of lime composites containing a new type of pozzolana for the improvement of strength and durability. <i>Composites Part B: Engineering</i> , 2012 , 43, 3534-3540	10	26
135	Effect of hydrophobization on the properties of lime-hetaokaolin plasters. <i>Construction and Building Materials</i> , 2012 , 37, 556-561	6.7	27
134	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	7	158
133	Application of genetic algorithm for determination of water vapor diffusion parameters of building materials. <i>Journal of Building Physics</i> , 2012 , 35, 238-250	2.6	13
132	A Boltzmann transformation method for investigation of water vapor transport in building materials. <i>Journal of Building Physics</i> , 2012 , 35, 213-223	2.6	14
131	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	4.1	12
130	Properties of high performance concrete containing fine-ground ceramics as supplementary cementitious material. <i>Cement and Concrete Composites</i> , 2012 , 34, 55-61	8.6	80

129	Application of burnt clay shale as pozzolan addition to lime mortar. <i>Cement and Concrete Composites</i> , 2012 , 34, 486-492	8.6	41
128	Properties of municipal solid waste incineration ashes with respect to their separation temperature. <i>Waste Management and Research</i> , 2012 , 30, 1041-8	4	29
127	Identification of water vapour transport properties of gypsum using evolutionary algorithms 2012 ,		1
126	Strength and Elasticity of Mortar with Municipal Solid Waste Incineration Ash. <i>Advanced Materials Research</i> , 2012 , 584, 350-354	0.5	
125	MSWI bottom ash as eco-aggregate in cement mortar design 2012 ,		16
124	Natural zeolite as environmentally friendly supplementary cementitious material in concrete 2012 ,		2
123	Apparent thermal conductivity approach at high-temperature measurements of porous materials. <i>Measurement: Journal of the International Measurement Confederation</i> , 2011 , 44, 1220-1228	4.6	13
122	Thermal properties of alkali-activated aluminosilicate composite with lightweight aggregates at elevated temperatures. <i>Fire and Materials</i> , 2011 , 35, 231-244	1.8	13
121	Lightweight gypsum composites: Design strategies for multi-functionality. <i>Cement and Concrete Composites</i> , 2011 , 33, 84-89	8.6	61
120	Properties of self-compacting concrete mixtures containing metakaolin and blast furnace slag. <i>Construction and Building Materials</i> , 2011 , 25, 1325-1331	6.7	84
119	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	6.7	57
118	Surface diffusion in porous media: A critical review. <i>Microporous and Mesoporous Materials</i> , 2011 , 142, 405-422	5.3	126
117	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	4	20
116	Innovative Lime-Pozzolana Renders for Reconstruction of Historical Buildings. <i>Advanced Materials Research</i> , 2011 , 324, 372-375	0.5	3
115	New Type of Lime Plaster with Pozzolana Admixture for Renewal of Historical Buildings. <i>Advanced Materials Research</i> , 2011 , 324, 336-339	0.5	1
114	Characterization of Building Stones Involved in Historical Masonry. <i>Advanced Materials Research</i> , 2011 , 324, 388-391	0.5	2
113	Environmental friendly concrete production using municipal solid waste incineration materials 2011 ,		2
112	Application of MSWI bottom ash as alternative aggregate in cement mortar 2011 ,		12

111	Mechanical, hygric and thermal properties of innovative renovation renders 2011 ,		2
110	Hygrothermal performance of innovative renovation renders used for different types of historical masonry 2011 ,		4
109	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	3	9
108	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	8.6	49
107	High performance concrete with Czech metakaolin: Experimental analysis of strength, toughness and durability characteristics. <i>Construction and Building Materials</i> , 2010 , 24, 1404-1411	6.7	89
106	Thermal properties of aramid-fiber reinforced cement composite 2010 , 965-972		1
105	Effect of slag on chloride transport and storage properties of HPC 2010 , 1497-1504		1
104	Fine-ground ceramics as an alternative binder in high performance concrete 2010 ,		2
103	Computational analysis of hygrothermal performance of renovation renders 2010 ,		6
102	Computational prediction of hygrothermal conditions in innovated AAC-based building envelopes 2010 ,		7
101	Properties of HPC containing supplementary cementing materials 2010 , 1457-1462		
100	Free Water Intake as Means of Material Characterization. <i>Journal of Building Physics</i> , 2009 , 33, 29-44	2.6	48
99	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	2.1	7
98	Effect of Moisture on Thermal Conductivity of Lime-Based Composites. <i>International Journal of Thermophysics</i> , 2009 , 30, 1999-2014	2.1	27
97	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	4.6	82
96	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	8.6	39
95	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	6.7	53
94	Hygrothermal performance study of an innovative interior thermal insulation system. <i>Applied Thermal Engineering</i> , 2009 , 29, 1941-1946	5.8	63

93	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	7	51
92	Analysis of dielectric mixing models for the moisture assessment of porous building materials. <i>Pollack Periodica</i> , 2009 , 4, 79-88	0.7	4
91	Properties of hydrophilic mineral wool Front-Rock Max E. <i>Pollack Periodica</i> , 2009 , 4, 101-106	0.7	1
90	Heat and moisture transport in porous materials involving cyclic wetting and drying 2009 ,		3
89	Properties of innovative renders on a lime basis for the renovation of historical buildings 2009 ,		5
88	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	4.1	14
87	Effect of High Temperatures on the Properties of Alkali Activated Aluminosilicate with Electrical Porcelain Filler. <i>International Journal of Thermophysics</i> , 2008 , 29, 693-705	2.1	30
86	Effect of cracks on hygric and thermal characteristics of concrete. <i>Bauphysik</i> , 2008 , 30, 438-444	0.4	22
85	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	7	36
84	Hydric, thermal and mechanical properties of self-compacting concrete containing different fillers. <i>Construction and Building Materials</i> , 2008 , 22, 1594-1600	6.7	18
83	Water and salt transport and storage properties of M&B sandstone. <i>Construction and Building Materials</i> , 2008 , 22, 1736-1748	6.7	35
82	Mechanical and hydric properties of alkali-activated aluminosilicate composite with electrical porcelain aggregates. <i>Cement and Concrete Composites</i> , 2008 , 30, 266-273	8.6	18
81	Determination of Moisture Content of Hygroscopic Building Materials Using Time Domain Reflectometry. <i>Journal of Applied Sciences</i> , 2008 , 8, 1732-1737	0.3	11
80	Water Transport Properties of Alkali Activated Aluminosilicate Composite Determined by Two Different Methods. <i>Trends in Applied Sciences Research</i> , 2008 , 3, 267-277	0.3	
79	Flue gas desulfurization gypsum: Study of basic mechanical, hydric and thermal properties. <i>Construction and Building Materials</i> , 2007 , 21, 1500-1509	6.7	84
78	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	4.1	13
77	Thermal Properties of Alkali-activated Slag Subjected to High Temperatures. <i>Journal of Building Physics</i> , 2007 , 30, 337-350	2.6	31
76	Application of Time-domain Reflectometry Method for Measuring Moisture Content in Porous Building Materials. <i>Trends in Applied Sciences Research</i> , 2007 , 2, 188-200	0.3	4

75	Determination of Moisture Diffusivity using the Time Domain Reflectometry (TDR) Method. <i>Journal of Building Physics</i> , 2006 , 30, 59-70	2.6	25
74	Chloride Binding in Building Materials. <i>Journal of Building Physics</i> , 2006 , 29, 189-200	2.6	19
73	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	6.7	37
72	Effect of pozzolanic admixtures on mechanical, thermal and hygric properties of lime plasters. <i>Construction and Building Materials</i> , 2006 , 20, 849-857	6.7	72
71	Effect of Moisture on the Thermal Conductivity of a Cementitious Composite. <i>International Journal of Thermophysics</i> , 2006 , 27, 1228-1240	2.1	25
70	Thermal Conductivity of Mineral Wool Materials Partially Saturated by Water. <i>International Journal of Thermophysics</i> , 2006 , 27, 1214-1227	2.1	26
69	Properties of Alkali Activated Aluminosilicate Material after Thermal Load. <i>International Journal of Thermophysics</i> , 2006 , 27, 1250-1263	2.1	59
68	COMPUTATIONAL ANALYSIS OF THE PARAMETERS OF COUPLED WATER AND CHLORIDE TRANSPORT IN CEMENT MORTAR 2005 , 611-620		
67	HYGRIC AND THERMAL PROPERTIES OF HIGH PERFORMANCE CONCRETE 2005 , 555-562		
66	Pulsed laser-induced phase transformations in CdTe single crystals. <i>Applied Surface Science</i> , 2005 , 248, 259-263	6.7	8
65	Interior Thermal Insulation System Based on Hydrophilic Mineral Wool. <i>Journal of Building Physics</i> , 2005 , 29, 21-35	2.6	4
64	Thermal and Hygric Parameters of Carbon-fiber-reinforced Cement Composites after Thermal and Mechanical Loading. <i>Journal of Building Physics</i> , 2005 , 29, 121-143	2.6	7
63	Experimental analysis of coupled water and chloride transport in cement mortar. <i>Cement and Concrete Composites</i> , 2004 , 26, 705-715	8.6	25
62	Analysis of glass fiber reinforced cement composites and their thermal and hygric material parameters. <i>Journal of Thermal Analysis and Calorimetry</i> , 2004 , 77, 85-97	4.1	7
61	Hygrothermal properties of glass fiber reinforced cements subjected to elevated temperature. <i>Materials and Structures/Materiaux Et Constructions</i> , 2004 , 37, 597-607	3.4	8
60	Hydric and mechanical properties of carbon fiber reinforced cement composites subjected to thermal load. <i>Construction and Building Materials</i> , 2004 , 18, 567-578	6.7	8
59	Computational model of pulsed laser-induced melting, evaporation and solidification of CdZnTe. <i>Computational Materials Science</i> , 2004 , 31, 389-404	3.2	5
58	Phase transformations induced in CdTe single crystal by ruby laser pulsed irradiation 2004 ,		5

57	Hygrothermal properties of glass fiber reinforced cements subjected to elevated temperature. <i>Materials and Structures/Materiaux Et Constructions</i> , 2004 , 37, 597-607	3.4	4
56	Chapter 3 Modeling Laser-Induced Phase-Change Processes: Theory and Computation. <i>Semiconductors and Semimetals</i> , 2003 , 43-78	0.6	1
55	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	10.3	16
54	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	10.3	19
53	A simple gravimetric method for determining the moisture diffusivity of building materials. <i>Construction and Building Materials</i> , 2003 , 17, 223-228	6.7	16
52	Water and Water Vapor Penetration Through Coatings. <i>Journal of Thermal Envelope and Building Science</i> , 2002 , 26, 165-177		8
51	System for Testing the Hygrothermal Performance of Multi-Layered Building Envelopes. <i>Journal of Thermal Envelope and Building Science</i> , 2002 , 25, 239-249		12
50	HYGRIC AND THERMAL PROPERTIES OF HPC FOR CONCRETE CONTAINMENTS OF NUCLEAR POWER PLANTS 2002 , 765-774		
49	Computational modeling of turbulent melt flow in CdZnTe crystal growth. <i>Computational Materials Science</i> , 2002 , 25, 316-328	3.2	2
48	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	10.3	15
47	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	10.3	39
46	Computational simulations of pulsed laser induced melting and solidification of monocrystalline GaSb. <i>Computational Materials Science</i> , 2000 , 17, 384-388	3.2	
45	Computational modeling of CdZnTe crystal growth from the melt. <i>Computational Materials Science</i> , 2000 , 17, 34-60	3.2	4
44	Modeling the phase-change processes in pulsed laser-irradiated InSb. <i>Physical Review B</i> , 1999 , 59, 10685-10697		
43	Numerical solution of a Stefan-like problem in laser processing of semiconducting alloys. <i>Mathematics and Computers in Simulation</i> , 1999 , 50, 165-173	3.3	4
42	Pulsed laser assisted recrystallisation of monocrystalline InSb surfaces. <i>Journal of Crystal Growth</i> , 1999 , 198-199, 1066-1069	1.6	
41	Deposition of waste water into deep mines. <i>Environmetrics</i> , 1999 , 10, 457-466	1.3	2
40	Hygrothermal Stress Induced Problems in Large Scale Sprayed Concrete Structures 1999 , 103-109		

39	A measuring method for the determination of linear thermal expansion of porous materials at high temperatures. <i>High Temperatures - High Pressures</i> , 1999 , 31, 595-600	1.3	9
38	Non-steady-state methods for determining the moisture diffusivity of porous materials. <i>International Communications in Heat and Mass Transfer</i> , 1998 , 25, 109-116	5.8	30
37	Modeling the preparation of pc-Si thin films with a Cu vapor laser. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 67, 513-516	2.6	4
36	Computational model of nonequilibrium phase transitions in a Si-Ge system. <i>Computational Materials Science</i> , 1998 , 10, 468-474	3.2	4
35	Nonequilibrium model of laser-induced phase change processes in amorphous silicon thin films. <i>Physical Review B</i> , 1998 , 57, 194-202	3.3	18
34	A two-phase moving boundary problem with two moving interfaces in laser processing of materials. <i>Computational Materials Science</i> , 1997 , 8, 228-242	3.2	7
33	Dynamics of laser induced phase transformations in amorphous silicon. <i>Applied Surface Science</i> , 1997 , 109-110, 317-321	6.7	5
32	Thermophysical properties of concrete for nuclear-safety related structures. <i>Cement and Concrete Research</i> , 1997 , 27, 415-426	10.3	15
31	Application of combined experimental and numerical techniques in determining the temperature dependence of reflectivity of semiconductors. <i>International Journal of Thermophysics</i> , 1996 , 17, 527-533 ^{2.1}		
30	Coupled thermal and moisture expansion of porous materials. <i>International Journal of Thermophysics</i> , 1996 , 17, 271-277	2.1	2
29	Measuring the effective specific heat of building materials. <i>Thermochimica Acta</i> , 1996 , 282-283, 239-250 ^{2.9}		8
28	Methods for evaluation of water-proofness quality and diffusion properties of coating materials. <i>Construction and Building Materials</i> , 1996 , 10, 547-552	6.7	3
27	Time Resolved Reflectivity Studies of Phase Transitions in Polycrystalline Si Induced by Excimer Laser Irradiation. <i>Solid State Phenomena</i> , 1996 , 51-52, 173-178	0.4	2
26	Determination of the reflectivity of liquid semiconductors over a wide temperature range. <i>International Journal of Thermophysics</i> , 1995 , 16, 841-849	2.1	3
25	Theoretical and experimental studies of a-Si:H recrystallization by XeCl excimer laser irradiation. <i>Applied Surface Science</i> , 1995 , 86, 359-363	6.7	7
24	Light-emitting Si prepared by laser annealing of a-Si:H. <i>Thin Solid Films</i> , 1995 , 255, 302-304	2.2	3
23	Numerical simulation of the formation of Ni silicides induced by pulsed lasers. <i>Computational Materials Science</i> , 1995 , 4, 269-281	3.2	7
22	Computational modeling of solid-state reactions in the Ni/Si systems induced by pulsed lasers. <i>Journal of Computational and Applied Mathematics</i> , 1995 , 63, 357-363	2.4	

21	Calorimetry of building materials. <i>Journal of Thermal Analysis</i> , 1995 , 43, 489-496		7
20	Effect of density change on the stability of a planar phase interface. <i>International Communications in Heat and Mass Transfer</i> , 1994 , 21, 605-614	5.8	1
19	A theoretical relation between viscosity and thermal conductivity of gases based on macroscopic balance equations. <i>European Physical Journal D</i> , 1994 , 44, 913-926		2
18	Influence of variations of temporal pulse shape in excimer laser processing of semiconductors. <i>Computational Materials Science</i> , 1994 , 2, 319-325	3.2	1
17	NUMERICAL SIMULATION OF ELECTROMAGNETIC MELTING AND EVAPORATION OF SPHERICAL METAL PARTS. <i>Numerical Heat Transfer; Part A: Applications</i> , 1994 , 25, 135-150	2.3	4
16	Kinetics of Ni Silicides Synthesis with Excimer Laser Pulses Studied by Trr. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 320, 415		
15	A model of binary-alloy solidification in the gravitational field. <i>Thermochimica Acta</i> , 1993 , 218, 17-28	2.9	4
14	Nonequilibrium solidification of monocrystalline Si induced by ArF-excimer-laser irradiation. <i>Thermochimica Acta</i> , 1993 , 218, 173-182	2.9	
13	A model of solidification under microgravity conditions. <i>European Physical Journal D</i> , 1993 , 43, 63-71		1
12	Electromagnetic vaporization of molten-metal drops. <i>International Journal of Heat and Mass Transfer</i> , 1993 , 36, 277-286	4.9	5
11	Nonequilibrium evaporation of molten-metal drops in an alternating magnetic field. <i>International Journal of Heat and Mass Transfer</i> , 1993 , 36, 3449-3458	4.9	6
10	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		20
9	A two-dimensional model of binary-alloy solidification with a Mushy-zone. <i>European Physical Journal D</i> , 1992 , 42, 411-430		
8	A model of binary alloy solidification with convection in the melt. <i>International Journal of Heat and Mass Transfer</i> , 1992 , 35, 1787-1793	4.9	12
7	A computational model of laser-induced melting and solidification with density change. <i>Computer Physics Communications</i> , 1992 , 73, 179-191	4.2	5
6	Numerical solution of the non-isothermal moving boundary problem in heat conduction. <i>Computer Physics Communications</i> , 1991 , 64, 241-251	4.2	9
5	Excimer-laser-induced melting and solidification of monocrystalline Si: Equilibrium and nonequilibrium models. <i>Physical Review B</i> , 1991 , 44, 4097-4102	3.3	28
4	A model of solidification with buoyancy-driven convection in the melt. <i>European Physical Journal D</i> , 1990 , 40, 301-316		1

3	Moisture and temperature dependence of the moisture diffusivity. <i>International Journal of Heat and Mass Transfer</i> , 1990 , 33, 2053-2055	4-9
2	Transport Processes in Concrete	68
1	Moisture Buffering Potential of Plasters for Energy Efficiency in Modern Buildings	1