Eva VejmelkovÃ¡

List of Publications by Year
in descending order

126 papers	1,762 citations	377584 21 h-index	340414 39 g-index
126 all docs	126 docs citations	126 times ranked	1388 citing authors

#	Article	IF	Citations
1	Effect of immersion time in acetone and isopropanol on hydration stoppage of hardened cement paste. AIP Conference Proceedings, 2022, , .	0.3	0
2	On the composition of sodium silicate - sodium hydroxide activator for the waste ceramics recycling. AIP Conference Proceedings, 2022, , .	0.3	0
3	Utilization of ceramic powder, calcined shale and sintered mullite as partial replacements of calcium aluminate cement. Construction and Building Materials, 2022, 326, 126824.	3.2	13
4	Effects of accelerated carbonation on properties of ceramic-based geopolymers. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2951-2966.	2.0	1
5	Comparison of water removal methods from cement paste at early age. AIP Conference Proceedings, 2021, , .	0.3	2
6	Application of expanded glass granulate and basalt fibers in the formation of lightweight cement-based refractory composite. AIP Conference Proceedings, 2021, , .	0.3	0
7	Influence of aluminosilicate fibers on mechanical properties of composite based on Portland cement exposed to high temperatures. AIP Conference Proceedings, 2021, , .	0.3	0
8	Exploiting advantages of empirical and optimization approaches to design alkali activated materials in a more efficient way. Construction and Building Materials, 2021, 292, 123460.	3.2	5
9	Alkali-activated waste ceramics: Importance of precursor particle size distribution. Ceramics International, 2021, 47, 31574-31582.	2.3	10
10	Impact of precursor granulometry on mechanical properties of geopolymers activated by potassium silicate. AIP Conference Proceedings, 2021, , .	0.3	0
11	Properties of CAC paste with varying alumina based admixtures. AIP Conference Proceedings, 2021, , .	0.3	2
12	Physical and chemical characteristics of heat resistant materials based on high alumina cement. AIP Conference Proceedings, 2021, , .	0.3	2
13	Impact of oven drying and sample dimensions on calcite content in cement pastes. AIP Conference Proceedings, 2021, , .	0.3	0
14	Influence of metakaolin on pH of cement paste. AIP Conference Proceedings, 2021, , .	0.3	1
15	Alkaline activation of low-reactivity ceramics: Peculiarities induced by the precursors' dual character. Cement and Concrete Composites, 2020, 105, 103440.	4.6	14
16	Quantification of vegetable oil content in lime mortar by thermal analysis. AIP Conference Proceedings, 2020, , .	0.3	2
17	Reactive Powder Concrete Containing Basalt Fibers: Strength, Abrasion and Porosity. Materials, 2020, 13, 2948.	1.3	16
18	The influence of zeolite on the sorption ability of concrete. AIP Conference Proceedings, 2020, , .	0.3	0

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19	Evaluation of the Mechanical, Physical, and Anti-Fungal Properties of Flax Laboratory Papersheets with the Nanoparticles Treatment. Materials, 2020, 13, 363.	1.3	18
20	Phase composition of ceramic-based alkali-activated polymers: combination of X-ray diffraction and thermal analysis. Journal of Thermal Analysis and Calorimetry, 2020, 142, 157-166.	2.0	5
21	Characterization of ceramic-based alkali activated aluminosilicate composites. AIP Conference Proceedings, 2020, , .	0.3	1
22	Kinetic sorption in the transport of species in a cement based composite. AIP Conference Proceedings, 2019, , .	0.3	0
23	Transport of gadolinium in a cement composite. MATEC Web of Conferences, 2019, 282, 02105.	0.1	3
24	Characterization of geopolymers prepared using powdered brick. Journal of Materials Research and Technology, 2019, 8, 6253-6261.	2.6	39
25	Pore structure and hygric properties of composite materials for radionuclide protection barriers. MATEC Web of Conferences, 2019, 282, 02055.	0.1	0
26	Thermal, hygric and mechanical properties of HPC containing silica fume. AIP Conference Proceedings, 2019, , .	0.3	1
27	Thermal characteristics of bentonite cement based composites. AIP Conference Proceedings, 2019, , .	0.3	0
28	Pore structure and hygrothermal characteristics of HPC based on Portland cement â€“ Slag blends. AIP Conference Proceedings, 2019, , .	0.3	0
29	Effect of zeolite as a sorbent on cesium toxicity of cement-based materials. AIP Conference Proceedings, 2019, , .	0.3	0
30	Effect of a varying moisture diffusivity in the transport of gadolinium in a porous material. AIP Conference Proceedings, 2019, , .	0.3	0
31	Effect of Cu-Zn coated steel fibers on high temperature resistance of reactive powder concrete. Cement and Concrete Research, 2019, 117, 45-57.	4.6	28
32	VARYING SORPTION ADMIXTURE FOR CONCRETE CASING FOR RADIONUCLIDE PROTECTION BARRIERS: MECHANICAL PROPERTIES. , 2019, , .		0
33	Highâ€strength concrete based on ternary binder with high pozzolan content. Structural Concrete, 2018, 19, 1258-1267.	1.5	17
34	Effect of calcined Czech claystone on the properties of high performance concrete: Microstructure, strength and durability. Construction and Building Materials, 2018, 168, 966-974.	3.2	23
35	Heat and Moisture Transport and Storage Parameters of Bricks Affected by the Environment. International Journal of Thermophysics, 2018, 39, 1.	1.0	12
36	High temperature durability of fiber reinforced high alumina cement composites. Construction and Building Materials, 2018, 162, 881-891.	3.2	28

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37	Red-clay ceramic powders as geopolymer precursors: Consideration of amorphous portion and CaO content. Applied Clay Science, 2018, 161, 82-89.	2.6	58
38	Cumulative damage assessment of concrete exposed to environmental effects. AIP Conference Proceedings, 2018, , .	0.3	0
39	Methodology of sealing plugs development for brick block with enhanced acoustic properties. AIP Conference Proceedings, 2018, , .	0.3	2
40	Thermal and hygric properties of alkali activated aluminosilicates. AIP Conference Proceedings, 2018, , .	0.3	0
41	Hygric parameters of ternary binder based plasters lightweighted by expanded perlite. AIP Conference Proceedings, 2018, , .	0.3	0
42	Mechanical and hygric properties of lime plasters modified by biomass fly ash. IOP Conference Series: Materials Science and Engineering, 2018, 365, 032059.	0.3	4
43	Application of waste brick powder in alkali activated aluminosilicates: Functional and environmental aspects. Journal of Cleaner Production, 2018, 194, 714-725.	4.6	140
44	Monitoring the effect of external conditions on the properties of building materials. IOP Conference Series: Materials Science and Engineering, 2018, 365, 032051.	0.3	0
45	DEVELOPMENT OF POROUS STRUCTURE OF CERAMIC-BASED GEOPOLYMERS. , 2018, , .		0
46	Thermal analysis of highâ€performance mortar containing burnt clay shale as a partial portland cement replacement in the temperature range up to 1000â€‰Â°C. Fire and Materials, 2017, 41, 54-64.	0.9	6
47	Effect of Moisture Content on Thermal Properties of Porous Building Materials. International Journal of Thermophysics, 2017, 38, 1.	1.0	13
48	Mechanical and thermal properties of HSC with fine natural pozzolana as SCM. AIP Conference Proceedings, 2017, , .	0.3	0
49	Lime-based plasters with combined expanded clay-silica aggregate: Microstructure, texture and engineering properties. Cement and Concrete Composites, 2017, 83, 374-383.	4.6	27
50	The influence of high temperatures on selected properties of calcium aluminous composites. AIP Conference Proceedings, 2017, , .	0.3	0
51	Monitoring the Damage of Exterior Renders Caused by the Environment. International Journal of Sustainable Development and Planning, 2017, 12, 342-351.	0.3	2
52	ENGINEERING PROPERTIES OF CONCRETE SUITABLE FOR CONSTRUCTING PHYSICAL BARRIERS IN RADIOACTIVE WASTE DISPOSAL FACILITIES. , 2017, , .		0
53	Application of Ceramic Powder as Supplementary Cementitious Material in Lime Plasters. Medziagotyra, 2016, 22, .	0.1	6
54	Water Vapor Diffusion and Adsorption of Sandstones: Influence of Rock Texture and Composition. Advances in Materials Science and Engineering, 2016, 2016, 1-7.	1.0	10

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55	High-temperature testing of high performance fiber reinforced concrete. AIP Conference Proceedings, 2016, , .	0.3	1
56	Application of waste ceramic dust as a ready-to-use replacement of cement in lime-cement plasters: an environmental-friendly and energy-efficient solution. Clean Technologies and Environmental Policy, 2016, 18, 1725-1733.	2.1	51
57	Mechanical, durability and hygrothermal properties of concrete produced using Portland cement-ceramic powder blends. Structural Concrete, 2016, 17, 105-115.	1.5	49
58	Hygric Properties of Lime-cement Plasters with the Addition of a Pozzolana. Procedia Engineering, 2016, 151, 127-132.	1.2	2
59	Moisture properties of the lightweight brick body. AIP Conference Proceedings, 2016, , .	0.3	2
60	Modeling of heat evolution in silicate building materials with electrically conductive admixtures. AIP Conference Proceedings, 2016, , .	0.3	2
61	Mechanical and thermal properties of the Czech marbles. AIP Conference Proceedings, 2016, , .	0.3	3
62	Thermal Expansion of Aluminate Cement-Based Composite Containing Basalt Fibres with Different Length. Key Engineering Materials, 2016, 675-676, 675-678.	0.4	0
63	Effect of heat and moisture transport and storage properties of building stones on the hygrothermal performance of historical building envelopes. AIP Conference Proceedings, 2016, , .	0.3	1
64	Multi-parameter optimization of lime composite design using a modified downhill simplex method. Composites Part B: Engineering, 2016, 93, 184-189.	5.9	12
65	Engineering properties of composite materials containing waste ceramic dust from advanced hollow brick production as a partial replacement of Portland cement. Journal of Building Physics, 2016, 40, 17-34.	1.2	9
66	Effect of Metashaleas SCM on Mechanical and Thermal Properties in Concrete Production. Applied Mechanics and Materials, 2015, 763, 41-46.	0.2	1
67	Thermal Properties of High-Performance Concrete Containing Fine-Ground Ceramics as a Partial Cement Replacement. Medziagotyra, 2015, 21, .	0.1	3
68	Treated Coconut Coir Pith as Component of Cementitious Materials. Advances in Materials Science and Engineering, 2015, 2015, 1-8.	1.0	7
69	Hygric properties of sandstones as a function of porosity. AIP Conference Proceedings, 2015, , .	0.3	1
70	Thermal insulating plasters and their hygric properties. AIP Conference Proceedings, 2015, , .	0.3	1
71	Engineering properties of concrete containing natural zeolite as supplementary cementitious material: Strength, toughness, durability, and hygrothermal performance. Cement and Concrete Composites, 2015, 55, 259-267.	4.6	124
72	Theoretical and Experimental Analysis of Moisture-Dependent Thermal Conductivity of Lightweight Ceramic Bricks. International Journal of Thermophysics, 2014, 35, 1912-1921.	1.0	11

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73	A Comparative Study on Thermal Properties of Two Types of Concrete Containing Fine Ceramic Waste and Burnt Clay Shale as a Supplementary Material. Advanced Materials Research, 2014, 982, 79-83.	0.3	3
74	Cement Composites for High Temperature Applications. Advanced Materials Research, 2014, 982, 154-158.	0.3	7
75	Hygric Transport Parameters of Several Kinds of Sandstones. Applied Mechanics and Materials, 2014, 621, 24-29.	0.2	0
76	Differences in the Properties of Arenaceous Marlstones from Different Quarries. Advanced Materials Research, 2014, 982, 149-153.	0.3	0
77	Pore Structure and Thermal Characteristics of Clay Bricks. Advanced Materials Research, 2014, 982, 104-107.	0.3	20
78	Application of Effective Media Theory for Determination of Thermal Properties of Hollow Bricks as a Function of Moisture Content. International Journal of Thermophysics, 2013, 34, 894-908.	1.0	42
79	Monitoring of Deformation of Steel Structure-Roof of Football Stadium Slavia Prague. Applied Mechanics and Materials, 2012, 239-240, 622-630.	0.2	2
80	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
81	Effect of hydrophobization on the properties of limeâ€“metakaolin plasters. Construction and Building Materials, 2012, 37, 556-561.	3.2	44
82	Properties of high performance concrete containing fine-ground ceramics as supplementary cementitious material. Cement and Concrete Composites, 2012, 34, 55-61.	4.6	115
83	Application of burnt clay shale as pozzolan addition to lime mortar. Cement and Concrete Composites, 2012, 34, 486-492.	4.6	51
84	Mechanical, fracture-mechanical, hydric, thermal, and durability properties of limeâ€“metakaolin plasters for renovation of historical buildings. Construction and Building Materials, 2012, 31, 22-28.	3.2	84
85	Apparent thermal conductivity approach at high-temperature measurements of porous materials. Measurement: Journal of the International Measurement Confederation, 2011, 44, 1220-1228.	2.5	15
86	Properties of self-compacting concrete mixtures containing metakaolin and blast furnace slag. Construction and Building Materials, 2011, 25, 1325-1331.	3.2	108
87	High performance concrete with Czech metakaolin: Experimental analysis of strength, toughness and durability characteristics. Construction and Building Materials, 2010, 24, 1404-1411.	3.2	126
88	THERMOPHYSICAL AND MECHANICAL PROPERTIES OF FIBERâ€REINFORCED COMPOSITE MATERIAL SUBJECTED TO HIGH TEMPERATURES. Journal of Civil Engineering and Management, 2010, 16, 395-400.	1.9	11
89	Free Water Intake as Means of Material Characterization. Journal of Building Physics, 2009, 33, 29-44.	1.2	72
90	Mechanical, Hygric, and Thermal Properties of Cement-Based Composite with Hybrid Fiber Reinforcement Subjected to High Temperatures. International Journal of Thermophysics, 2009, 30, 1310-1322.	1.0	13

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91	Effect of Moisture on Thermal Conductivity of Lime-Based Composites. International Journal of Thermophysics, 2009, 30, 1999-2014.	1.0	30
92	High performance concrete containing lower slag amount: A complex view of mechanical and durability properties. Construction and Building Materials, 2009, 23, 2237-2245.	3.2	61
93	Effect of cracks on hygric and thermal characteristics of concrete. Bauphysik, 2008, 30, 438-444.	1.2	29
94	Innovative Lime-Pozzolana Renders for Reconstruction of Historical Buildings. Advanced Materials Research, 0, 324, 372-375.	0.3	5
95	Characterization of Building Stones Involved in Historical Masonry. Advanced Materials Research, 0, 324, 388-391.	0.3	6
96	Thermal Properties of PVA-Fiber Reinforced Cement Composites at High Temperatures. Applied Mechanics and Materials, 0, 377, 45-49.	0.2	9
97	Influence of Metashale as Cement Replacement on the Hygric Transport Properties of Concrete. Advanced Materials Research, 0, 1054, 188-193.	0.3	5
98	Heat and Water Vapor Transport Properties of Selected Commercially Produced Plasters. Advanced Materials Research, 0, 982, 90-93.	0.3	9
99	Mechanical and Thermal Properties of Composites Containing Waste Coir Pith. Advanced Materials Research, 0, 1054, 238-242.	0.3	5
100	Mechanical and Thermal Properties of Moderate-Strength Concrete with Ceramic Powder Used as Supplementary Cementitious Material. Advanced Materials Research, 0, 1054, 194-198.	0.3	24
101	Thermal Properties of Selected Timbers. Advanced Materials Research, 0, 982, 100-103.	0.3	4
102	Application of Zeolite as a Partial Replacement of Cement in Concrete Production. Applied Mechanics and Materials, 0, 621, 30-34.	0.2	4
103	Properties of Cement Composites Containing Coir Pith. Advanced Materials Research, 0, 982, 136-140.	0.3	3
104	Influence of Basalt Fibres and Aggregates on the Thermal Expansion of Cement-Based Composites. Advanced Materials Research, 0, 1054, 17-21.	0.3	6
105	Lime Plasters Containing Waste Ceramic Powder as Partial Replacement of Siliceous Aggregates. Advanced Materials Research, 0, 1035, 77-82.	0.3	3
106	Properties of Lime Plasters with Different Ceramic Powder Dosage. Applied Mechanics and Materials, 0, 621, 19-23.	0.2	5
107	Pore Distribution and Water Vapor Diffusion Parameters of Lime Plasters with Waste Brick Powder. Advanced Materials Research, 0, 1054, 205-208.	0.3	7
108	Influence of Selected Pozzolanas on Basic Physical and Mechanical Properties of HSC. Materials Science Forum, 0, 824, 39-42.	0.3	0

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109	Basic and Thermal Characteristics of Render with Crushed Brick. Materials Science Forum, 0, 824, 7-11.	0.3	0
110	Pore Structure and Hydric Characteristics of Renders with Blended Binder. Materials Science Forum, 0, 824, 89-93.	0.3	1
111	Mechanical and Water Transport Properties of HSC with Different SCMs. Materials Science Forum, 0, 824, 105-110.	0.3	0
112	Influence of Cracks on the Properties of Self-Compacting Concrete. Materials Science Forum, 0, 824, 139-143.	0.3	0
113	Reinforced Cement Composites â€“ Effect of Hybrid Fibres on Selected Properties. Materials Science Forum, 0, 824, 179-183.	0.3	0
114	Properties of Concrete with Lower Amount of SCM. Materials Science Forum, 0, 824, 65-69.	0.3	0
115	Effect of External Environment on the Properties of Selected Plasters. Advanced Materials Research, 0, 1125, 377-381.	0.3	0
116	Mechanical and Thermal Properties of HSC with Fine Natural Pozzolana as SCM. Materials Science Forum, 0, 824, 167-171.	0.3	0
117	Hygric Properties of HPC with Natural Pozzolana. Key Engineering Materials, 0, 677, 93-97.	0.4	1
118	Basic Physical and Mechanical Properties of Composites Based on Three Different Cements. Key Engineering Materials, 0, 677, 186-190.	0.4	1
119	Influence of Moisture Content on the Thermal Properties of Concrete Containing Agricultural Waste Materials. Key Engineering Materials, 0, 677, 241-245.	0.4	0
120	Experimental and Theoretical Study of Heat Transport Parameters of Plasters Containing Pozzolanic Admixtures. Key Engineering Materials, 0, 675-676, 569-572.	0.4	0
121	The Comparison of Water, Water Vapour Transport Properties and Mechanical Characterization of Two Commercial Plasters on Market in the Czech Republic. Key Engineering Materials, 0, 722, 357-361.	0.4	0
122	Pore System and Hydric Properties of Two Different Lime Plasters with Finely Crushed Brick. Key Engineering Materials, 0, 675-676, 597-600.	0.4	3
123	Comparison of the Effects of Different Pozzolana on the Properties of Self-Compacting Concrete. Key Engineering Materials, 0, 677, 103-107.	0.4	2
124	Porous Structure and Hygric Properties of Concrete for Radioactive Waste Repositories. Key Engineering Materials, 0, 760, 127-131.	0.4	3
125	Influence of Supplementary Cementitious Materials on the Properties of Concrete for Secondary Protection Barrier in Radioactive Waste Repositories. Key Engineering Materials, 0, 760, 96-101.	0.4	0
126	Mechanical and Basic Physical Properties of High-Strength Concrete Exposed to Elevated Temperatures. Key Engineering Materials, 0, 760, 108-113.	0.4	1