Pavla Rovnanikova

List of Publications by Year
in descending order

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67 papers	1,922 citations	331259 21 h-index	276539 41 g-index
68 all docs	68 docs citations	68 times ranked	1504 citing authors

#	Article	IF	Citations
1	Characterization of alkali activated slag paste after exposure to high temperatures. Construction and Building Materials, 2013, 47, 1479-1487.	3.2	153
2	Pozzolanic properties of brick powders and their effect on the properties of modified lime mortars. Construction and Building Materials, 2016, 120, 530-539.	3.2	145
3	Application of waste brick powder in alkali activated aluminosilicates: Functional and environmental aspects. Journal of Cleaner Production, 2018, 194, 714-725.	4.6	140
4	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
5	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
6	Properties of high performance concrete containing fine-ground ceramics as supplementary cementitious material. Cement and Concrete Composites, 2012, 34, 55-61.	4.6	115
7	Rheological properties and microstructure of binary waste red brick powder/metakaolin geopolymer. Construction and Building Materials, 2018, 188, 924-933.	3.2	108
8	Flue gas desulfurization gypsum: Study of basic mechanical, hydric and thermal properties. Construction and Building Materials, 2007, 21, 1500-1509.	3.2	105
9	Effect of pozzolanic admixtures on mechanical, thermal and hygric properties of lime plasters. Construction and Building Materials, 2006, 20, 849-857.	3.2	86
10	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
11	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
12	Red-clay ceramic powders as geopolymer precursors: Consideration of amorphous portion and CaO content. Applied Clay Science, 2018, 161, 82-89.	2.6	58
13	Application of burnt clay shale as pozzolan addition to lime mortar. Cement and Concrete Composites, 2012, 34, 486-492.	4.6	51
14	Mechanical, durability and hygrothermal properties of concrete produced using Portland cement-ceramic powder blends. Structural Concrete, 2016, 17, 105-115.	1.5	49
15	Blended Alkali-activated Fly Ash / Brick Powder Materials. Procedia Engineering, 2016, 151, 108-113.	1.2	48
16	Physico-mechanical and microstructural properties of rehydrated blended cement pastes. Construction and Building Materials, 2014, 54, 413-420.	3.2	47
17	Modeling of Chloride Concentration Effect on Reinforcement Corrosion. Computer-Aided Civil and Infrastructure Engineering, 2009, 24, 446-458.	6.3	46
18	Characterization of geopolymers prepared using powdered brick. Journal of Materials Research and Technology, 2019, 8, 6253-6261.	2.6	39

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19	Non-hydrophobized perlite renders for repair and thermal insulation purposes: Influence of different binders on their properties and durability. Construction and Building Materials, 2020, 263, 120617.	3.2	32
20	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
21	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
22	Highâ€strength concrete based on ternary binder with high pozzolan content. Structural Concrete, 2018, 19, 1258-1267.	1.5	17
23	Effect of thermal decomposition processes on the thermal properties of carbon fiber reinforced cement composites in high-temperature range. Journal of Thermal Analysis and Calorimetry, 2007, 90, 475-488.	2.0	16
24	Effect of the preparation of lime putties on their properties. Scientific Reports, 2017, 7, 17260.	1.6	15
25	Alkaline activation of low-reactivity ceramics: Peculiarities induced by the precursors' dual character. Cement and Concrete Composites, 2020, 105, 103440.	4.6	14
26	Mechanical Fracture Parameters of Cement Based Mortars with Waste Glass Powder. Procedia Engineering, 2017, 190, 86-91.	1.2	12
27	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
28	Thermal and Hygric Parameters of Carbon-fiber-reinforced Cement Composites after Thermal and Mechanical Loading. Journal of Building Physics, 2005, 29, 121-143.	1.2	7
29	Application of a-SiO₂ Rich Additives in Cement Paste. Applied Mechanics and Materials, 0, 749, 362-367.	0.2	7
30	Coagulated silica - a-SiO2 admixture in cement paste. AIP Conference Proceedings, 2016, , .	0.3	6
31	Influence of various amount of diatomaceous earth used as cement substitute on mechanical properties of cement paste. AIP Conference Proceedings, 2016, , .	0.3	6
32	Rheological Properties of Alkali-Activated Brick Powder Based Pastes: Effect of Alkali Activator and Silicate Modulus. Solid State Phenomena, 2018, 276, 185-191.	0.3	6
33	Influence of Guar Gum Derivatives on Hardened Properties of Aerial Lime-Based Mortars. Key Engineering Materials, 0, 760, 22-29.	0.4	5
34	Properties of Aerial Lime-Based Mortars with Chitosan Ethers. Solid State Phenomena, 2018, 276, 75-82.	0.3	5
35	Introduction to an Approach to Performing Sustainability Quantification of Concrete Structures. Solid State Phenomena, 2018, 272, 273-279.	0.3	4
36	Thermal Analysis of Concrete from Panels Subjected to Fire Experiments. Solid State Phenomena, 2018, 272, 47-52.	0.3	4

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37	Reactivity of Brick Powder in Lime Mortars. Advanced Materials Research, 2014, 897, 135-138.	0.3	3
38	Effect of Cement Replacement by Zeolite on the Basic Mechanical Fracture Properties of Concrete: A Parametric Study. Advanced Materials Research, 0, 969, 140-143.	0.3	3
39	Properties of Concretes with Admixture of Natural Zeolite. Advanced Materials Research, 0, 1000, 106-109.	0.3	3
40	Methodology for the quantification of concrete sustainability. MATEC Web of Conferences, 2018, 174, 01006.	0.1	3
41	Fresh state properties of spongilite blended cement pastes. AIP Conference Proceedings, 2021, , .	0.3	3
42	Study of the Effect of Diatomite as a Partial Replacement of Cement in Cement Pastes. Materials Science Forum, 2016, 865, 22-26.	0.3	2
43	Properties of Cement Paste with Incorporated Sodium Silicate. Key Engineering Materials, 0, 677, 133-137.	0.4	2
44	The use of glass powder as a partial Portland cement replacement. AIP Conference Proceedings, 2017, , .	0.3	2
45	Use of Lava Sand as an Alternative to Standard Quartz Aggregate in Lime Mortars. Solid State Phenomena, 0, 296, 73-78.	0.3	2
46	Fracture Parameters of Alkali-Activated Aluminosilicate Composites with Ceramic Precursor. Solid State Phenomena, 2020, 309, 73-79.	0.3	2
47	X-RAY MICRO-TOMOGRAPHY CHARACTERIZATION OF VOIDS CAUSED BY THREE-POINT BENDING IN SELECTED ALKALI-ACTIVATED ALUMINOSILICATE COMPOSITE. Acta Polytechnica CTU Proceedings, 0, 25, 58-63.	0.3	2
48	Effect of petrographic composition and chemistry of aggregate on the local and general fracture response of cementitious composites. Frattura Ed Integrita Strutturale, 2022, 16, 13-29.	0.5	2
49	Probabilistic Modelling and the <i>k</i>-Value Concept. Key Engineering Materials, 0, 635, 198-203.	0.4	1
50	Effect of Porosity on Mechanical and Hygric Properties of Concrete with Natural Pozzolan Addition. Advanced Materials Research, 0, 982, 22-26.	0.3	1
51	Effect of Curing Temperature on Mechanical and Fracture Parameters of Alkali-Activated Brick Powder Based Composite. Key Engineering Materials, 2018, 761, 79-82.	0.4	1
52	Effects of accelerated carbonation on properties of ceramic-based geopolymers. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2951-2966.	2.0	1
53	Identification of AAAS Composites Mechanical Fracture Parameters. Solid State Phenomena, 0, 322, 66-71.	0.3	1
54	Microstructure of biopolymer-modified aerial lime mortars. MATEC Web of Conferences, 2020, 322, 01023.	0.1	1

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55	Characterization of ceramic-based alkali activated aluminosilicate composites. AIP Conference Proceedings, 2020, , .	0.3	1
56	Fracture parameters of alkali-activated aluminosilicate composites with ceramic precursor: durability aspects. Procedia Structural Integrity, 2021, 33, 207-214.	0.3	1
57	Investigation of the Causes of Colour Inconsistency in the Facades of Vrchotovy Janovice Castle. Advanced Materials Research, 2013, 688, 45-52.	0.3	0
58	Effect of Admixture Dosage and Specimens Age on Mechanical Fracture Parameters of Lime Mortars Enhanced by Burnt Clays. Advanced Materials Research, 0, 1000, 356-359.	0.3	0
59	Mechanical Fracture Parameters of Mortars Modified by Burnt Clays. Advanced Materials Research, 0, 969, 241-244.	0.3	0
60	Mechanical Fracture Parameters of Fine-Grain Concretes with Zeolite: Effect of Composition and Origin of Cements. Advanced Materials Research, 0, 1000, 330-333.	0.3	0
61	Properties of Concrete with Lower Amount of SCM. Materials Science Forum, 0, 824, 65-69.	0.3	0
62	A Study of Crushed Glass as a Replacement for Cement in Cement Pastes. Key Engineering Materials, 0, 714, 86-89.	0.4	0
63	Effect of Amorphous Silicon Dioxide Amount on the Mechanical Fracture Parameters of Cement Mortars. Solid State Phenomena, 0, 249, 147-151.	0.3	0
64	Improvement of properties of aluminosilicate pastes based on optimization of curing parameters. AIP Conference Proceedings, 2017, , .	0.3	0
65	Thermal and hygric properties of alkali activated aluminosilicates. AIP Conference Proceedings, 2018, , .	0.3	0
66	Fracture Parameters of Concrete from Drill-Core Specimens from Objects at the Transgas Gas Control Center. Solid State Phenomena, 2019, 292, 85-90.	0.3	0
67	MICROSTRUCTURE, TEXTURE, AND MECHANICAL PROPERTIES OF GEOPOLYMERS PREPARED USING INDUSTRIAL WASTE. Proceedings of International Structural Engineering and Construction, 2017, 4, .	0.1	0