

Zdeněk Prošek

List of Publications by Year in descending order

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docs citations

46
times ranked

260
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of lime, fly ash, and slag in cement pastes containing recycled concrete fines. Construction and Building Materials, 2019, 201, 702-714.	7.2	49
2	Micromechanical characterization and modeling of cement pastes containing waste marble powder. Journal of Cleaner Production, 2018, 195, 1081-1090.	9.3	45
3	Recovery of residual anhydrous clinker in finely ground recycled concrete. Resources, Conservation and Recycling, 2020, 155, 104640.	10.8	35
4	Enhancing cementitious pastes with waste marble sludge. Construction and Building Materials, 2020, 255, 119372.	7.2	31
5	Hydrophobicity and resistance against microorganisms of heat and chemically crosslinked poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlo 12.7 30	12.7	30
6	EFFECT OF PVA MODIFICATION ON PROPERTIES OF CEMENT COMPOSITES. Acta Polytechnica, 2015, 55, 64-75.	0.6	28
7	PROPERTIES AND MICROSTRUCTURE OF CEMENT PASTE INCLUDING RECYCLED CONCRETE POWDER. Acta Polytechnica, 2017, 57, 49-57.	0.6	16
8	Influence of increasing amount of recycled concrete powder on mechanical properties of cement paste. IOP Conference Series: Materials Science and Engineering, 2017, 236, 012094.	0.6	15
9	Mechanical Properties of Recycled Binder/Micro-Filler Cement-Based Material. Advanced Materials Research, 0, 1054, 234-237.	0.3	11
10	MICROSTRUCTURE DESCRIPTION AND MICROMECHANICAL PROPERTIES OF SPRUCE WOOD. Acta Polytechnica, 2015, 55, 39-49.	0.6	9
11	Composite Material Based on Cement and PVA: Evolution of Mechanical Properties during First 28 Days. Advanced Materials Research, 0, 1054, 215-220.	0.3	7
12	Utilization of the waste from the marble industry for application in transport infrastructure: mechanical properties of cement pastes. IOP Conference Series: Materials Science and Engineering, 2017, 236, 012092.	0.6	7
13	Macroscopic and Microscopic Properties of High Performance Concrete with Partial Replacement of Cement by Fly Ash. Solid State Phenomena, 0, 292, 108-113.	0.3	6
14	Micromechanical Properties of Spruce Tissues Using Static Nanoindentation and Modulus Mapping. Applied Mechanics and Materials, 0, 732, 115-118.	0.2	5
15	MECHANICAL PROPERTIES OF PVA NANOFIBER TEXTILES WITH INCORPORATED NANODIAMONDS, COPPER AND SILVER IONS. Acta Polytechnica, 2015, 55, 14-21.	0.6	4
16	Mechanical Properties of Cement Composites Reinforced by Carbon Microfibers: Compressive and Bending Strength. Key Engineering Materials, 0, 722, 351-356.	0.4	4
17	Influence of Recycled Concrete Composition on its Elastic Stiffness. Key Engineering Materials, 0, 677, 288-291.	0.4	4
18	MICRO-MECHANICAL PERFORMANCE OF CONCRETE USED AS RECYCLED RAW MATERIAL IN CEMENTITIOUS COMPOSITE. Acta Polytechnica CTU Proceedings, 0, 13, 55.	0.3	4

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19	DETERMINING THE ROLE OF INDIVIDUAL FLY ASH PARTICLES IN INFLUENCING THE VARIATION IN THE OVERALL PHYSICAL, MORPHOLOGICAL, AND CHEMICAL PROPERTIES OF FLY ASH. <i>Acta Polytechnica</i> , 2016, 56, 265-282.	0.6	3
20	Relationship between Compressive Strength and Young's Modulus of Cement Paste with Recycled Concrete Powder. <i>Key Engineering Materials</i> , 0, 722, 254-259.	0.4	3
21	Replacement of Cement with Finely Ground Recycled Concrete: Influence on Mechanical Properties. <i>Applied Mechanics and Materials</i> , 2016, 825, 69-72.	0.2	3
22	Using 2D Digital Image Analysis to Locate Position of Micro Fibers in Cross-Sections of Fiber-Reinforced Concrete. <i>Key Engineering Materials</i> , 0, 677, 169-174.	0.4	3
23	Microstructural Analysis of Fly Ash-Based Stabilizer for Track Bed. <i>Key Engineering Materials</i> , 2017, 731, 66-73.	0.4	3
24	The Effect of Micronized Waste Marble Powder as Partial Replacement for Cement on Resulting Mechanical Properties of Cement Pastes. <i>Advanced Materials Research</i> , 0, 1144, 54-58.	0.3	2
25	Mechanical Properties of Cement Composite with Material Based on Waste Marble Powder and Crushed Limestone. <i>Advanced Materials Research</i> , 0, 1144, 9-13.	0.3	2
26	Hydration Heat Evolution of the Cement Paste with Recycled Concrete: Influence of Grain Size Distribution of Recycled Concrete Powder. <i>Key Engineering Materials</i> , 0, 731, 37-42.	0.4	2
27	Self-Healing of Cementitious Materials via Bacteria: A Theoretical Study. <i>Crystals</i> , 2022, 12, 920.	2.2	2
28	Non-Destructive Testing of Composite Gypsum Material Properties – Long Time Measurement. <i>Applied Mechanics and Materials</i> , 0, 732, 321-324.	0.2	1
29	Influence of Recycled Materials on Resulting Mechanical Properties of Cement Composites. <i>Applied Mechanics and Materials</i> , 0, 825, 53-56.	0.2	1
30	Modulus Mapping and its Use to Determine the Effect Process of Drying on the Cells of Spruce. <i>Key Engineering Materials</i> , 0, 714, 25-28.	0.4	1
31	Influence of the Oxygen Plasma Treatments on Surface Wettability of Glass Micro Fibers Used as Reinforcement in any Mortars. <i>Key Engineering Materials</i> , 0, 714, 148-151.	0.4	1
32	Influence of Waste Crushed Limestone and Waste Micronized Marble Powder on Mechanical Properties of Cement Composite. <i>Key Engineering Materials</i> , 0, 722, 222-227.	0.4	1
33	Cement Composite Reinforced with Synthetic Fibers: Comparison of Three-Point and Four-Point Bending Test Results. <i>Applied Mechanics and Materials</i> , 2016, 827, 332-335.	0.2	1
34	Effect of Reinforcement on Flexural Strength and Ductility of Gypsum-Based Composites with Recycled Wires from Automobile Tires. <i>Applied Mechanics and Materials</i> , 0, 827, 348-351.	0.2	1
35	Shrinkage of Cement Composite with Material Based on Waste Marble and Limestone. <i>Key Engineering Materials</i> , 0, 731, 80-85.	0.4	1
36	EVALUATION OF MICROMECHANICAL PROPERTIES OF CARBON FIBER FABRIC USING NANOINDENTATION. <i>Acta Polytechnica CTU Proceedings</i> , 2017, 13, 66.	0.3	1

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37	Utilization of Surface-Modified Polymer and Glass Micro-Fibers as Reinforcement in Cement Composites. Key Engineering Materials, 0, 760, 225-230.	0.4	1
38	Comparison of Modulus of Elasticity of Glued Laminated Timber. Key Engineering Materials, 0, 714, 29-32.	0.4	0
39	Influence of Finely Ground Recycled Concrete on Microstructure of Cement-Based Composite Material. Key Engineering Materials, 0, 714, 111-115.	0.4	0
40	Effect of Microfillers on Selected Destructive and Nondestructive Mechanical Properties of Cement Mortars: Different Types of Recycled Materials. Key Engineering Materials, 0, 722, 195-200.	0.4	0
41	Comparison of Compressive Strength and Young's Modulus of Cement Samples with Different Types of Aggregate. Key Engineering Materials, 0, 677, 207-210.	0.4	0
42	Testing of 3-Dimensional Stabilizing Elements for Protection of Slopes: Possibilities of &i>In Situ&i> Testing. Applied Mechanics and Materials, 0, 827, 239-242.	0.2	0
43	Composite Middle Lamella Hardness and Young's Modulus of Artificial Dried Spruce Wood by Nanoindentation. Applied Mechanics and Materials, 0, 827, 320-323.	0.2	0
44	The Dependence of the Shrinkage of the Cement Composite with Fine Ground Recycled Concrete on its Microstructure. Key Engineering Materials, 0, 731, 103-108.	0.4	0
45	MICROSCOPIC AND PHASE ANALYSIS OF CEMENT PASTE CONTAINING WASTE MICRONIZED MARBLE POWDER. Acta Polytechnica CTU Proceedings, 2018, 15, 94-98.	0.3	0
46	Natural moisture of milled recycled concrete and influence on selected properties of the cement composite. AIP Conference Proceedings, 2020, , .	0.4	0