VÃ;clav Nežerka

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Improvement of bonding between synthetic fibers and a cementitious matrix using recycled concrete powder and plasma treatment: from a single fiber to FRC. European Journal of Environmental and Civil Engineering, 2022, 26, 3880-3897.	1.0	10
2	Self-healing concrete: application of monod's approach for modeling <i>Bacillus pseudofirmus</i> growth curves. European Journal of Environmental and Civil Engineering, 2022, 26, 8229-8241.	1.0	4
3	PVA increases efficiency of bacterially-induced self-healing in cement mortars. Cement and Concrete Composites, 2022, 131, 104593.	4.6	8
4	Characterization of quarry dusts and industrial by-products as potential substitutes for traditional fillers and their impact on water susceptibility of asphalt concrete. Construction and Building Materials, 2021, 301, 124294.	3.2	4
5	A comprehensive study on adhesion between modified bituminous binders and mineral aggregates. Construction and Building Materials, 2021, 305, 124686.	3.2	14
6	Assessment of aggregate-bitumen coverage using entropy-based image segmentation. Road Materials and Pavement Design, 2020, 21, 2364-2375.	2.0	6
7	Recovery of residual anhydrous clinker in finely ground recycled concrete. Resources, Conservation and Recycling, 2020, 155, 104640.	5.3	35
8	Enhancing cementitious pastes with waste marble sludge. Construction and Building Materials, 2020, 255, 119372.	3.2	31
9	MECHANICAL AND IMAGE ANALYSIS OF ADHESION BETWEEN MINERAL AGGREGATE AND BITUMINOUS BINDER. Acta Polytechnica CTU Proceedings, 2020, 26, 112-116.	0.3	1
10	Mitigating inclusion-induced shrinkage cracking in cementitious composites by incorporating recycled concrete fines. Construction and Building Materials, 2020, 248, 118673.	3.2	22
11	Validation of Micromechanical Model for Prediction of ITZ Thickness of High-Strength Concrete Containing Secondary Cementitious Materials. Materials Science Forum, 2020, 995, 143-148.	0.3	4
12	Real-Time Optical Measurement of Displacements Using Subpixel Image Registration. Experimental Techniques, 2019, 43, 315-323.	0.9	10
13	Impact of silica fume, fly ash, and metakaolin on the thickness and strength of the ITZ in concrete. Cement and Concrete Composites, 2019, 103, 252-262.	4.6	147
14	Role of lime, fly ash, and slag in cement pastes containing recycled concrete fines. Construction and Building Materials, 2019, 201, 702-714.	3.2	49
15	Contact Angle Measurement Tool Based on Image Analysis. Experimental Techniques, 2018, 42, 271-278.	0.9	16
16	Deterioration of bonding capacity of plasma-treated polymer fiber reinforcement. Cement and Concrete Composites, 2018, 89, 205-215.	4.6	19
17	Micromechanical characterization and modeling of cement pastes containing waste marble powder. Journal of Cleaner Production, 2018, 195, 1081-1090.	4.6	45
18	A jigsaw puzzle metamaterial concept. Composite Structures, 2018, 202, 1275-1279.	3.1	13

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19	Modeling glulams in linear range with parameters updated using Bayesian inference. Engineering Structures, 2017, 138, 293-307.	2.6	7
20	Micromechanics-based simulations of compressive and tensile testing on lime-based mortars. Mechanics of Materials, 2017, 105, 49-60.	1.7	17
21	An integrated experimental-numerical study of the performance of lime-based mortars in masonry piers under eccentric loading. Construction and Building Materials, 2016, 114, 913-924.	3.2	22
22	Impact of surface plasma treatment on the performance of PET fiber reinforcement in cementitious composites. Cement and Concrete Research, 2016, 89, 276-287.	4.6	41
23	Replacement of Cement with Finely Ground Recycled Concrete: Influence on Mechanical Properties. Applied Mechanics and Materials, 2016, 825, 69-72.	0.2	3
24	MECHANICAL PROPERTIES OF PVA NANOFIBER TEXTILES WITH INCORPORATED NANODIAMONDS, COPPER AND SILVER IONS. Acta Polytechnica, 2015, 55, 14-21.	0.3	4
25	MICROSTRUCTURE DESCRIPTION AND MICROMECHANICAL PROPERTIES OF SPRUCE WOOD. Acta Polytechnica, 2015, 55, 39-49.	0.3	9
26	EFFECT OF PVA MODIFICATION ON PROPERTIES OF CEMENT COMPOSITES. Acta Polytechnica, 2015, 55, 64-75.	0.3	28
27	Investigation of crushed brick-matrix interface in lime-based ancient mortar by microscopy and nanoindentation. Cement and Concrete Composites, 2015, 55, 122-128.	4.6	49
28	Comprehensive study on mechanical properties of lime-based pastes with additions of metakaolin and brick dust. Cement and Concrete Research, 2014, 64, 17-29.	4.6	110
29	Influence of Freeze-Thaw Cycles on Mechanical Properties of Gypsum Determined Using the Impulse Excitation Method. Applied Mechanics and Materials, 2013, 486, 353-358.	0.2	2
30	Utilization of Recycled Fine-Ground Concrete from Railway Sleepers for Production of Cement-Based Binder. Applied Mechanics and Materials, 2013, 486, 323-326.	0.2	12
31	Influence of Copper Ions on Mechanical Properties of PVA-Based Nanofiber Textiles. Applied Mechanics and Materials, 2013, 486, 201-204.	0.2	2
32	A Micromechanics-Based Model for Stiffness and Strength Estimation of Cocciopesto Mortars. Acta Polytechnica, 2012, 52, .	0.3	9
33	Mechanical Properties of Single and Double-Layered PVA Nanofibers. Key Engineering Materials, 0, 586, 261-264.	0.4	5
34	Influence of Aggregate Stiffness on Fracture-Mechanical Properties of Lime-Based Mortars. Applied Mechanics and Materials, 0, 486, 289-294.	0.2	3
35	Fracture-Micromechanics Based Model of Mortars Susceptible to Shrinkage. Key Engineering Materials, 0, 592-593, 189-192.	0.4	0
36	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

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37	Mechanical Properties of Recycled Binder/Micro-Filler Cement-Based Material. Advanced Materials Research, 0, 1054, 234-237.	0.3	11
38	Micromechanical Properties of Spruce Tissues Using Static Nanoindentation and Modulus Mapping. Applied Mechanics and Materials, 0, 732, 115-118.	0.2	5
39	Compression Testing of Gypsum-Based Composite Reinforced by Recycled Wires from Automobile Tires. Applied Mechanics and Materials, 0, 732, 393-396.	0.2	1
40	Development of Mechanical Properties of Cement Paste with Different Addition of Polyvinyl Alcohol. Applied Mechanics and Materials, 0, 732, 81-84.	0.2	1
41	Non-Destructive Testing of Composite Gypsum Material Properties – Long Time Measurement. Applied Mechanics and Materials, 0, 732, 321-324.	0.2	1
42	Use of Digital Image Correlation to Track Strain Evolution in Compressed Masonry Piers. Applied Mechanics and Materials, 0, 732, 337-340.	0.2	0
43	Performance of Stabilized and Non-Stabilized PVA Nanofiber Textiles Subjected to Tension. Applied Mechanics and Materials, 0, 732, 119-122.	0.2	1
44	Effect of Curing Humidity on Stiffness of Cement Based Mortars with Recycled Fillers. Applied Mechanics and Materials, 0, 825, 19-22.	0.2	0
45	Modulus Mapping and its Use to Determine the Effect Process of Drying on the Cells of Spruce. Key Engineering Materials, 0, 714, 25-28.	0.4	1
46	An Additively Manufactured Modular Metamaterial Composed of a Single Cell. Key Engineering Materials, 0, 722, 325-330.	0.4	0
47	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
48	Using 2D Digital Image Analysis to Locate Position of Micro Fibers in Cross-Sections of Fiber-Reinforced Concrete. Key Engineering Materials, 0, 677, 169-174.	0.4	3
49	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
50	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
51	Use of Open Source DIC Tools for Analysis of Multiple Cracking in Fiber-Reinforced Concrete. Applied Mechanics and Materials, 0, 827, 336-339.	0.2	10
52	Effect of Reinforcement on Flexural Strength and Ductility of Gypsum-Based Composites with Recycled Wires from Automobile Tires. Applied Mechanics and Materials, 0, 827, 348-351.	0.2	1
53	ASSESSMENT OF 2D-DIC STOCHASTIC PATTERNS. Acta Polytechnica CTU Proceedings, 0, 13, 1.	0.3	6
54	A Lightweight DFT-Based Approach to the Optical Measurement of Displacements Using an Open-Source Python Code. Experimental Techniques, 0, , 1.	0.9	0

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55	MECHANICAL PROPERTIES IMPROVEMENT OF FIBER REINFORCED CONCRETE. Acta Polytechnica CTU Proceedings, 0, 22, 123-127.	0.3	0