

Sergey Stelâ€™makh

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Investigation of Integral and Differential Characteristics of Variotropic Structure Heavy Concretes by Ultrasonic Methods. Applied Sciences (Switzerland), 2021, 11, 3591.	2.5	24
2	Optimization of Composition and Technological Factors for the Lightweight Fiber-Reinforced Concrete Production on a Combined Aggregate with an Increased Coefficient of Structural Quality. Applied Sciences (Switzerland), 2021, 11, 7284.	2.5	24
3	Improving the Structural Characteristics of Heavy Concrete by Combined Disperse Reinforcement. Applied Sciences (Switzerland), 2021, 11, 6031.	2.5	23
4	Nanomodification of Lightweight Fiber Reinforced Concrete with Micro Silica and Its Influence on the Constructive Quality Coefficient. Materials, 2021, 14, 7347.	2.9	23
5	Developing Environmentally Sustainable and Cost-Effective Geopolymer Concrete with Improved Characteristics. Sustainability, 2021, 13, 13607.	3.2	23
6	Influence of Composition and Technological Factors on Variotropic Efficiency and Constructive Quality Coefficients of Lightweight Vibro-Centrifuged Concrete with Alkalized Mixing Water. Applied Sciences (Switzerland), 2021, 11, 9293.	2.5	22
7	Influence of Mechanochemical Activation of Concrete Components on the Properties of Vibro-Centrifuged Heavy Concrete. Applied Sciences (Switzerland), 2021, 11, 10647.	2.5	22
8	Development of High-Tech Self-Compacting Concrete Mixtures Based on Nano-Modifiers of Various Types. Materials, 2022, 15, 2739.	2.9	21
9	Nano modifying additive micro silica influence on integral and differential characteristics of vibrocentrifuged concrete. Journal of Building Engineering, 2022, 51, 104235.	3.4	21
10	The Influence of Composition and Recipe Dosage on the Strength Characteristics of New Geopolymer Concrete with the Use of Stone Flour. Applied Sciences (Switzerland), 2022, 12, 613.	2.5	20
11	Investigation of the Influence of the Initial Composition of Heavy Concrete Designed for the Manufacture of Ring-Section Products on its Properties. Materials Science Forum, 2018, 931, 508-514.	0.3	19
12	Theoretical and Practical Aspects of the Formation of the Variational Structure of Centrifuged Products from Heavy Concrete. Materials Science Forum, 2018, 931, 502-507.	0.3	18
13	Effects of the Geometric Parameters of Mixer on the Mixing Process of Foam Concrete Mixture and Its Energy Efficiency. Applied Sciences (Switzerland), 2020, 10, 8055.	2.5	17
14	Increasing the Corrosion Resistance and Durability of Geopolymer Concrete Structures of Agricultural Buildings Operating in Specific Conditions of Aggressive Environments of Livestock Buildings. Applied Sciences (Switzerland), 2022, 12, 1655.	2.5	17
15	Improvement of Strength and Strain Characteristics of Lightweight Fiber Concrete by Electromagnetic Activation in a Vortex Layer Apparatus. Applied Sciences (Switzerland), 2022, 12, 104.	2.5	16
16	Analysis of concrete deformation diagram, received by different ways of formation, and their separate layers. IOP Conference Series: Materials Science and Engineering, 2019, 687, 022008.	0.6	15
17	Quantitative and Qualitative Aspects of Composite Action of Concrete and Dispersion-Reinforcing Fiber. Polymers, 2022, 14, 682.	4.5	15
18	Enchainment of the Coefficient of Structural Quality of Elements in Compression and Bending by Combined Reinforcement of Concrete with Polymer Composite Bars and Dispersed Fiber. Polymers, 2021, 13, 4347.	4.5	15

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19	High-Performance Concrete Nanomodified with Recycled Rice Straw Biochar. Applied Sciences (Switzerland), 2022, 12, 5480.	2.5	15
20	A Study on the Cement Gel Formation Process during the Creation of Nanomodified High-Performance Concrete Based on Nanosilica. Gels, 2022, 8, 346.	4.5	15
21	Nano-Modified Vibrocentrifuged Concrete with Granulated Blast Slag: The Relationship between Mechanical Properties and Micro-Structural Analysis. Materials, 2022, 15, 4254.	2.9	14
22	Enhanced Eco-Friendly Concrete Nano-Change with Eggshell Powder. Applied Sciences (Switzerland), 2022, 12, 6606.	2.5	13
23	Electroactivation of Foam Concrete for Buildings and Structures with Improved Constructive and Energy Efficient Characteristics. IOP Conference Series: Materials Science and Engineering, 2018, 463, 022034.	0.6	12
24	Recipe-technological aspects of improving the properties of non-autoclaved aerated concrete. MATEC Web of Conferences, 2017, 129, 05011.	0.2	11
25	Dehydration factor upon activation of building sand by ultraviolet radiation. IOP Conference Series: Materials Science and Engineering, 2020, 896, 012123.	0.6	11
26	Modeling and Experimental Verification of the Performance of Polymer Composite Reinforcing Bars of Different Types in Concrete of Different Density. Polymers, 2022, 14, 1756.	4.5	11
27	Prescription and Technological Aspects of Manufacturing High-Quality Centrifuged Products and Structures from Heavy Concrete. IOP Conference Series: Materials Science and Engineering, 2018, 463, 022056.	0.6	10
28	Relaxation processes during activation of cement mixing water. IOP Conference Series: Materials Science and Engineering, 2020, 896, 012124.	0.6	10
29	Effect of Disperse Reinforcement on the Structural Quality Factor of Vibrated and Centrifuged Concretes on the Combined Aggregate. Materials Science Forum, 2019, 974, 283-287.	0.3	9
30	Computer simulation of the electrostatic field of corona discharge with a matrix of corona electrodes. AIP Conference Proceedings, 2019, , .	0.4	9
31	Mathematical Modeling and Experimental Substantiation of the Gas Release Process in the Production of Non-Autoclaved Aerated Concrete. Materials, 2022, 15, 2642.	2.9	9
32	Efficiency Comparison of Fiber Reinforcement in Vibrated and Centrifuged Concretes at Different Types of the Applied Heavy Aggregate. Materials Science Forum, 2019, 974, 288-292.	0.3	8
33	The Activation Technology for the Surface Modification High Voltage Electric Field Dispersed Mineral Additives for Concrete. Materials Science Forum, 2020, 1011, 23-30.	0.3	8
34	Influence of Type of Filler and Dispersive Reinforcement on the Nature of Structured Formation and Deformative Properties of Vibrocentrifuged Concrete. IOP Conference Series: Materials Science and Engineering, 2020, 753, 022014.	0.6	7
35	Influence of Recipe Factors on the Structure and Properties of Non-Autoclaved Aerated Concrete of Increased Strength. Applied Sciences (Switzerland), 2022, 12, 6984.	2.5	7
36	Plugging slurry (backfill) and surface cavity closure technology. E3S Web of Conferences, 2020, 157, 01014.	0.5	6

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37	Features of change in strength and modulus of elasticity of various layers of vibrocentrifuged fiber-reinforced concrete columns of annular section. IOP Conference Series: Materials Science and Engineering, 2019, 687, 022009.	0.6	5
38	Theoretical and Experimental Substantiation of the Efficiency of Combined-Reinforced Glass Fiber Polymer Composite Concrete Elements in Bending. Polymers, 2022, 14, 2324.	4.5	5
39	Study of changes in strength properties along section thickness of high-strength centrifuged and vibro-centrifuged concrete. IOP Conference Series: Materials Science and Engineering, 2020, 905, 012060.	0.6	4
40	Studying the Relationship between the Strength and Stress-Related Characteristics of Concrete as a Conglomerate and the Properties of its Components. Materials Science Forum, 0, 1022, 71-79.	0.3	4
41	Deformability and features of destruction of centrifuged concrete during shock loads. AIP Conference Proceedings, 2019, , .	0.4	3
42	Force modeling of interparticle pair interaction of spheroid in composite cement. IOP Conference Series: Materials Science and Engineering, 2020, 905, 012061.	0.6	3
43	Structural Formation of the Cement Pastes Based on the Concrete Modified Dispersed Mineral Components. Materials Science Forum, 2020, 1011, 14-22.	0.3	3
44	SETTING A DIAGRAM APPROACH TO CALCULATING VIBRATED, CENTRIFUGED AND VIBROCENTRIFUGED REINFORCED CONCRETE COLUMNS WITH A VARIATROPIC STRUCTURE. Russian Journal of Building Construction and Architecture, 2021, , 30-44.	0.2	3
45	Crack Strength and Deformability of Power Transmission Line Conical Poles. Materials Science Forum, 2018, 931, 304-310.	0.3	2
46	Microfiller Influence on the Modified Cement Granulometric Composition. Materials Science Forum, 0, 1043, 9-14.	0.3	1
47	Synergetic Synthesis of Nonlinear Laws of Throttle Control of a Pneumatic Drive. Applied Sciences (Switzerland), 2022, 12, 1797.	2.5	1
48	Selection of a rational formulation of lightened concretes on combined aggregates. Journal of Physics: Conference Series, 2021, 2124, 012017.	0.4	1
49	Optimization of Dry Construction Mix with the Addition of Biochar from Reclaimed Rice Straw in the Agro-Industrial Complex. IOP Conference Series: Earth and Environmental Science, 2021, 937, 032071.	0.3	1
50	Optimization of Technological Parameters of Foam Concrete Mix Preparation for Obtaining Foam Concrete with Improved Structure and Characteristics. Lecture Notes in Civil Engineering, 2021, , 43-49.	0.4	0
51	Single-Element Construction System for Differentiated Installation of Load-Bearing and Enclosing Structures of Buildings Based on a Flat Monoelement. Lecture Notes in Civil Engineering, 2021, , 247-257.	0.4	0
52	Dependence of the Quality of the Foam Concrete Mixture on Its Mixing Modes. Lecture Notes in Civil Engineering, 2021, , 195-202.	0.4	0
53	Physical foundations of variatropia recipe regulation and control of concrete properties with centrifugal seal. E3S Web of Conferences, 2021, 281, 03009.	0.5	0
54	Modeling the dependence of the foam concrete structural quality coefficient on the speed and duration of mixing the foam concrete mixture. IOP Conference Series: Materials Science and Engineering, 2021, 1083, 012035.	0.6	0

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55	Proposals on calculating the differential properties of concrete. IOP Conference Series: Materials Science and Engineering, 2021, 1083, 012009.	0.6	0
56	Studying the Effect of some Factors on the Stress-Strain Behavior of the Rostov Region Limestones in the Course of their Production and Use. Materials Science Forum, 0, 1022, 80-86.	0.3	0
57	Research of physicomechanical and design characteristics of vibrated, centrifuged and vibro-centrifuged concretes. Advanced Engineering Research, 2021, 21, 5-13.	0.4	0
58	CALCULATION AND DESIGN OF BUILDING STRUCTURES CONSIDERING THE VARIATION OF THE STRUCTURE, SECTIONS AND DIFFERENTIATION OF THE CONSTRUCTION CHARACTERISTICS OF MATERIALS. Russian Journal of Building Construction and Architecture, 2021, , 6-31.	0.2	0
59	Recipe and Technological Factorsâ€™ Influence on Vibrocentrifuged Basalt Fiber Concrete Strength and Deformation Properties. Materials Science Forum, 0, 1043, 15-25.	0.3	0
60	On the causes of destructions in reinforced concrete products and power plant constructions. IzvestiÂ€ Vuzov: Investicii Stroitelâ€™stvo NedviÂ€imostâ€™1, 2020, 10, 286-293.	0.3	0
61	Study of integral and differential strength and deformation characteristics of centrifuged and vibrating centrifuged concrete on activated Portland cement. Journal of Physics: Conference Series, 2021, 2124, 012005.	0.4	0