

Alexey Beskopylny

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

503
citations

14
h-index

18
g-index

92
ext. papers

752
ext. citations

1.5
avg, IF

4.61
L-index

#	Paper	IF	Citations
73	The Influence of Composition and Recipe Dosage on the Strength Characteristics of New Geopolymer Concrete with the Use of Stone Flour. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 613	2.6	7
72	Synergetic Synthesis of Nonlinear Laws of Throttle Control of a Pneumatic Drive. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1797	2.6	
71	Quantitative and Qualitative Aspects of Composite Action of Concrete and Dispersion-Reinforcing Fiber.. <i>Polymers</i> , 2022 , 14,	4.5	4
70	Quality Control of Frame Structures of Robotic Systems by Express Nondestructive Methods. <i>Smart Innovation, Systems and Technologies</i> , 2022 , 13-20	0.5	1
69	Strengthening of Welded Joints of Load-Bearing Structures of Robotic Systems with Ball-Rod Hardening. <i>Smart Innovation, Systems and Technologies</i> , 2022 , 1-11	0.5	4
68	Development of High-Tech Self-Compacting Concrete Mixtures Based on Nano-Modifiers of Various Types.. <i>Materials</i> , 2022 , 15,	3.5	3
67	Nano modifying additive micro silica influence on integral and differential characteristics of vibrocentrifuged concrete. <i>Journal of Building Engineering</i> , 2022 , 51, 104235	5.2	6
66	Improvement of Strength and Strain Characteristics of Lightweight Fiber Concrete by Electromagnetic Activation in a Vortex Layer Apparatus. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 104	2.6	3
65	High-Performance Concrete Nanomodified with Recycled Rice Straw Biochar. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 5480	2.6	2
64	A Study on the Cement Gel Formation Process during the Creation of Nanomodified High-Performance Concrete Based on Nanosilica. <i>Gels</i> , 2022 , 8, 346	4.2	3
63	Developing Environmentally Sustainable and Cost-Effective Geopolymer Concrete with Improved Characteristics. <i>Sustainability</i> , 2021 , 13, 13607	3.6	4
62	Influence of Mechanochemical Activation of Concrete Components on the Properties of Vibro-Centrifugated Heavy Concrete. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10647	2.6	10
61	Mathematical Modeling of the Phytoplankton Populations Geographic Dynamics for Possible Scenarios of Changes in the Azov Sea Hydrological Regime. <i>Mathematics</i> , 2021 , 9, 3025	2.3	3
60	Nanomodification of Lightweight Fiber Reinforced Concrete with Micro Silica and Its Influence on the Constructive Quality Coefficient. <i>Materials</i> , 2021 , 14,	3.5	6
59	Influence of Composition and Technological Factors on Variatropic Efficiency and Constructive Quality Coefficients of Lightweight Vibro-Centrifuged Concrete with Alkalized Mixing Water. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9293	2.6	11
58	Mathematical Analysis of Parametric Characteristics of the Consensus Algorithms Operation with the Choice of the Most Priority One for Implementation in the Financial Sphere. <i>Electronics (Switzerland)</i> , 2021 , 10, 2659	2.6	1
57	Improving the Structural Characteristics of Heavy Concrete by Combined Disperse Reinforcement. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6031	2.6	16

56	Estimation of the Age of Architectural Heritage Objects by Microstructural Changes of Calcite in Lime Mortars of Ancient Brickwork and Masonry. <i>Buildings</i> , 2021 , 11, 240	3.2	1
55	Modeling of Vibroacoustic Characteristics of Plate Structures of Vehicles during Abrasive Processing. <i>Transportation Research Procedia</i> , 2021 , 54, 39-46	2.4	14
54	Simulation of Ball-rod Hardening of a Butt Welded Joint of Transport Bearing Structures. <i>Transportation Research Procedia</i> , 2021 , 54, 84-91	2.4	2
53	Ultimate Compressive Strains and Reserves of Bearing Capacity of Short RC Columns with Basalt Fiber. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7634	2.6	3
52	Optimization of Composition and Technological Factors for the Lightweight Fiber-Reinforced Concrete Production on a Combined Aggregate with an Increased Coefficient of Structural Quality. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7284	2.6	14
51	Simplified 2D Finite Element Model for Calculation of the Bearing Capacity of Eccentrically Compressed Concrete-Filled Steel Tubular Columns. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11645	2.6	1
50	Mathematical modeling of mechanical properties of vibro-centrifuged fiber-reinforced concrete of variotropic structure. <i>Journal of Physics: Conference Series</i> , 2021 , 2131, 032090	0.3	
49	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.. <i>Polymers</i> , 2021 , 13,	4.5	5
48	Deep Contact Strength of Surface Hardened Gears. <i>Metals</i> , 2020 , 10, 600	2.3	1
47	Methodology and results of studying soil moisture after the interaction with the operating devices. <i>E3S Web of Conferences</i> , 2020 , 175, 09006	0.5	16
46	Artificial Neural Networks in Classification of Steel Grades Based on Non-Destructive Tests. <i>Materials</i> , 2020 , 13,	3.5	27
45	Comparison of the efficiency of neural network algorithms in recognition and classification problems. <i>E3S Web of Conferences</i> , 2020 , 224, 01025	0.5	1
44	Immunobiotics mechanisms of action and prospects of use in veterinary medicine. <i>E3S Web of Conferences</i> , 2020 , 210, 06017	0.5	3
43	Strength Characteristics Analysis of Structurally Inhomogeneous Steel Gears. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 894-903	0.4	2
42	Limit-State Criteria and Their Use in Conditions of the Significant Structural Heterogeneity of the Gear Steel. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 904-912	0.4	2
41	Structural Monitoring of Underground Structures in Multi-Layer Media by Dynamic Methods. <i>Sensors</i> , 2020 , 20,	3.8	10
40	Spectral characteristics of noise during hardening of welds of rod structures. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 709, 044087	0.4	9
39	Influence of the Cross-Sectional Shape of a Reinforced Bimodular Beam on the Stress-Strain State in a Transverse Impact. <i>Buildings</i> , 2020 , 10, 248	3.2	2

38	Transverse Impact on Rectangular Metal and Reinforced Concrete Beams Taking into Account Bimodularity of the Material. <i>Materials</i> , 2020 , 13,	3.5	2
37	Diagnostics of steel structures with the dynamic non-destructive method. <i>MATEC Web of Conferences</i> , 2019 , 279, 02003	0.3	2
36	The non-stationary dynamic of a beam under the elastic-plastic impact of a conical indenter. <i>MATEC Web of Conferences</i> , 2019 , 279, 02006	0.3	
35	The approximation method in the problem on a flow of viscous fluid around a thin plate. <i>Aircraft Engineering and Aerospace Technology</i> , 2019 , 91, 807-813	1.2	1
34	Research of Vibroacoustic Characteristics in the Operator Working Area During Welds Abrasive Treatment. <i>BezopasnostoTruda V Promyshlennosti</i> , 2019 , 7-12	1.6	7
33	METHODS AND RESULTS OF THE SEED MATERIAL FRICTION COEFFICIENT DETERMINING USING AN AUTOMATED DEVICE. <i>Polythematic Online Scientific Journal of Kuban State Agrarian University</i> , 2019 , 10-20	0	
32	Noise Spectra of Ball-Rod Hardening of Welds of Rod Structures. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 489-495	0.4	15
31	Influence of the Organizational Schemes of the Construction Process on the Quality of the Structures Erected Based on Selected Legal Aspects from Russia, Slovakia, and Poland. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 661, 012137	0.4	1
30	Influence of Boundary Conditions on the Stress-Strain State of a Corrugated Sheet Under Its Weight. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 661, 012029	0.4	
29	Stress-strain state of a reinforced stepped bimodular column. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 661, 012030	0.4	1
28	Strategic priorities in the industrial poultry products competitiveness management system. <i>E3S Web of Conferences</i> , 2019 , 135, 01099	0.5	2
27	Precise seeding planter with automated monitoring and control system. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 403, 012063	0.3	28
26	Effect of Bimodularity on the Stress State of a Variable Cross-Section Reinforced Beam. <i>Materials Science Forum</i> , 2019 , 974, 646-652	0.4	1
25	Experience non-destructive testing of the metal of bridge structures. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 698, 066001	0.4	1
24	Approximate solution the problem of low-speed impact of a conical indenter in a cylindrical shell 2019 ,		1
23	Assessment of the Fatigue Durability of the Rolling Contact. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 184-191	0.4	12
22	Agricultural machine parts quality control by dynamic non-destructive methods. <i>MATEC Web of Conferences</i> , 2018 , 226, 04034	0.3	3
21	The Impact of the Conical Indenter on a Plate Laying on a Winkler Foundation. <i>Materials Science Forum</i> , 2018 , 931, 84-90	0.4	3

20	Static analysis of a reinforced bimodulus beam on elastic foundation. <i>MATEC Web of Conferences</i> , 2018 , 196, 02003	0.3	6
19	Model of heterogeneous reinforced fiber foam concrete in bending. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 365, 032023	0.4	18
18	Bending strength assessment of chemically-heat-strengthened Novikov gearing. <i>MATEC Web of Conferences</i> , 2018 , 224, 02033	0.3	5
17	The Boundary Condition Influence on a Stress-Strain State of a Corrugated Plate on an Elastic Foundation. <i>Materials Science Forum</i> , 2018 , 931, 60-65	0.4	3
16	Bending of a wavy plate of a periodic profile on an elastic foundation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 365, 042032	0.4	1
15	Complex method of defects diagnostics in underground structures. <i>MATEC Web of Conferences</i> , 2018 , 146, 02013	0.3	16
14	Dynamic response of a plate laying on elastic base during the impact of a conical indenter. <i>MATEC Web of Conferences</i> , 2018 , 196, 01001	0.3	5
13	The Contact Mechanics of Novikov's Surface-Hardened Gearing during Running-in Process. <i>Advances in Tribology</i> , 2018 , 2018, 1-8	1.6	4
12	Buckling analysis of rod structure of the two-tier dome. <i>MATEC Web of Conferences</i> , 2018 , 193, 04024	0.3	0
11	Non-destructive test of steel structures by conical indentation. <i>MATEC Web of Conferences</i> , 2017 , 129, 02046	0.3	20
10	Metal structures diagnosis by truncated cone indentation. <i>MATEC Web of Conferences</i> , 2017 , 106, 04004	0.3	19
9	Layered structures mechanical properties assessment by dynamic tests. <i>MATEC Web of Conferences</i> , 2017 , 117, 00018	0.3	22
8	Optimization of thick-walled spherical shells at thermal and power influences. <i>MATEC Web of Conferences</i> , 2017 , 106, 04013	0.3	15
7	Stress-strain state of reinforced bimodulus beam on an elastic foundation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017 , 90, 012064	0.3	11
6	Numerical study of the stress-strain state of reinforced plate on an elastic foundation by the Bubnov-Galerkin method. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017 , 90, 012017	0.3	12
5	Determination of Rheological Parameters of Polyvinylchloride at Different Temperatures. <i>MATEC Web of Conferences</i> , 2016 , 67, 06059	0.3	29
4	Determination of the strength of butt welded joints. <i>Welding International</i> , 1997 , 11, 642-645	0.1	16
3	Influence of boundary conditions on the strengthening technology of a welded joint with a ball-rod hardener. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 1001, 012047	0.4	1

2	Estimation of the losses coefficient of the vibrational energy of the woodworking technological system. <i>IOP Conference Series: Materials Science and Engineering</i> ,1001, 012077	0.4	1
1	The influence of thermodynamical characteristics of high speed steels on temperature and forces values when turning construction steel. <i>IOP Conference Series: Materials Science and Engineering</i> ,996, 012003	0.4	2