

Besarion Meskhi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9929944/publications.pdf>

Version: 2024-02-01

71
papers

890
citations

361413

20
h-index

552781

26
g-index

73
all docs

73
docs citations

73
times ranked

276
citing authors

#	ARTICLE	IF	CITATIONS
1	Computer modeling of the process of depth of soil treatment. E3S Web of Conferences, 2019, 135, 01078.	0.5	46
2	E-learning in higher inclusive education: needs, opportunities and limitations. International Journal of Educational Management, 2019, 33, 424-437.	1.5	42
3	Artificial Neural Networks in Classification of Steel Grades Based on Non-Destructive Tests. Materials, 2020, 13, 2445.	2.9	40
4	Tuning the band structure, magnetic and transport properties of the zigzag graphene nanoribbons/hexagonal boron nitride heterostructures by transverse electric field. Journal of Chemical Physics, 2014, 141, 014708.	3.0	38
5	Modeling of Vibroacoustic Characteristics of Plate Structures of Vehicles during Abrasive Processing. Transportation Research Procedia, 2021, 54, 39-46.	1.5	33
6	Energy-saving tillage with a combined unit with universal working bodies. IOP Conference Series: Materials Science and Engineering, 2020, 1001, 012121.	0.6	33
7	Influence of parameters and location of the tumble inlet port on air charging in the diesel cylinder. E3S Web of Conferences, 2019, 135, 01083.	0.5	32
8	Magnetism and transport properties of zigzag graphene nanoribbons/hexagonal boron nitride heterostructures. Journal of Applied Physics, 2014, 115, 053708.	2.5	28
9	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
10	Mathematical and laboratory modeling of resonant impact on the spike for the purpose of grain selection. E3S Web of Conferences, 2020, 210, 05017.	0.5	24
11	Technical, technological and managerial solutions in ensuring environmental safety. IOP Conference Series: Materials Science and Engineering, 2020, 1001, 012100.	0.6	24
12	Improving the Structural Characteristics of Heavy Concrete by Combined Disperse Reinforcement. Applied Sciences (Switzerland), 2021, 11, 6031.	2.5	23
13	Nanomodification of Lightweight Fiber Reinforced Concrete with Micro Silica and Its Influence on the Constructive Quality Coefficient. Materials, 2021, 14, 7347.	2.9	23
14	Developing Environmentally Sustainable and Cost-Effective Geopolymer Concrete with Improved Characteristics. Sustainability, 2021, 13, 13607.	3.2	23
15	Influence of Composition and Technological Factors on Variatropic Efficiency and Constructive Quality Coefficients of Lightweight Vibro-Centrifuged Concrete with Alkalized Mixing Water. Applied Sciences (Switzerland), 2021, 11, 9293.	2.5	22
16	Influence of Mechanochemical Activation of Concrete Components on the Properties of Vibro-Centrifuged Heavy Concrete. Applied Sciences (Switzerland), 2021, 11, 10647.	2.5	22
17	Edge and substrate-induced bandgap in zigzag graphene nanoribbons on the hexagonal nitride boron 8-ZGNR/h-BN(0001). AIP Advances, 2013, 3, .	1.3	21
18	Innovative pneumatic device for combined seeding of various tilled crops. E3S Web of Conferences, 2020, 210, 08016.	0.5	21

#	ARTICLE	IF	CITATIONS
19	Impact of globalization and digitalization on the efficiency of environmental development of territories. E3S Web of Conferences, 2020, 217, 06012.	0.5	21
20	Development of High-Tech Self-Compacting Concrete Mixtures Based on Nano-Modifiers of Various Types. Materials, 2022, 15, 2739.	2.9	21
21	Spectral characteristics of noise during hardening of welds of rod structures. IOP Conference Series: Materials Science and Engineering, 2020, 709, 044087.	0.6	20
22	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
23	Creation of integrated system for feeding management activities automation in beef breeding. E3S Web of Conferences, 2020, 175, 03019.	0.5	18
24	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
25	Structural Monitoring of Underground Structures in Multi-Layer Media by Dynamic Methods. Sensors, 2020, 20, 5241.	3.8	15
26	Finite Element and Applied Models of the Stem with Spike Deformation. Agriculture (Switzerland), 2021, 11, 1147.	3.1	15
27	Quantitative and Qualitative Aspects of Composite Action of Concrete and Dispersion-Reinforcing Fiber. Polymers, 2022, 14, 682.	4.5	15
28	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
29	High-Performance Concrete Nanomodified with Recycled Rice Straw Biochar. Applied Sciences (Switzerland), 2022, 12, 5480.	2.5	15
30	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
31	Innovative technologies and equipment from "Amazona" company for fertilizer application. E3S Web of Conferences, 2020, 210, 04002.	0.5	14
32	First-principles study of the structural and electronic properties of graphene absorbed on MnO(111) surfaces. Computational and Theoretical Chemistry, 2016, 1098, 22-30.	2.5	11
33	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
34	Ensuring safe operation and assessing the condition underground structures by the method of acoustic resonance flaw detection. IOP Conference Series: Earth and Environmental Science, 2017, 90, 012217.	0.3	10
35	A new method for calculating the combined anchor-concrete support of underground structures. MATEC Web of Conferences, 2018, 170, 03023.	0.2	10
36	Strengthening of Welded Joints of Load-Bearing Structures of Robotic Systems with Ball-Rod Hardening. Smart Innovation, Systems and Technologies, 2022, , 1-11.	0.6	8

#	ARTICLE	IF	CITATIONS
37	Semiconductorâ€‘halfmetalâ€‘metal transition and magnetism of bilayer graphene nanoribbons/hexagonal boron nitride heterostructure. Solid State Communications, 2014, 199, 1-10.	1.9	7
38	Elements of microclimate normalization system in the cabin of TORUM grain mandy combine. IOP Conference Series: Earth and Environmental Science, 2019, 403, 012089.	0.3	7
39	Ultimate Compressive Strains and Reserves of Bearing Capacity of Short RC Columns with Basalt Fiber. Applied Sciences (Switzerland), 2021, 11, 7634.	2.5	7
40	Finite element simulation of airflow in a field cleaner. IOP Conference Series: Materials Science and Engineering, 2020, 1001, 012060.	0.6	7
41	Influence of boundary conditions on the strengthening technology of a welded joint with a ball-rod hardener. IOP Conference Series: Materials Science and Engineering, 2020, 1001, 012047.	0.6	6
42	Genetic basis of the probiotic properties of Lactobacillus. E3S Web of Conferences, 2020, 203, 04016.	0.5	5
43	Safe operation of transportation tunnels based on predictive modeling of active geomechanical processes. Mining Informational and Analytical Bulletin, 2020, , 86-96.	0.2	5
44	Mathematical Modeling of the Phytoplankton Populations Geographic Dynamics for Possible Scenarios of Changes in the Azov Sea Hydrological Regime. Mathematics, 2021, 9, 3025.	2.2	5
45	The spatial problem of strengthening the frame structures of transport vehicles. Transportation Research Procedia, 2022, 63, 2535-2541.	1.5	5
46	Radiation and environmental studies of the air of industrial premises of construction industry plants in the cities of Volgograd and Rostov regions. IOP Conference Series: Materials Science and Engineering, 0, 1001, 012108.	0.6	4
47	Simplified 2D Finite Element Model for Calculation of the Bearing Capacity of Eccentrically Compressed Concrete-Filled Steel Tubular Columns. Applied Sciences (Switzerland), 2021, 11, 11645.	2.5	4
48	Cyclone with Controlled Parameters and Self-Emptying Bin for Air Dedusting in Machine Building Plants. Applied Mechanics and Materials, 2014, 682, 46-52.	0.2	3
49	Using Big data and artificial intelligence to solve the fire safety problem of potentially dangerous objects. IOP Conference Series: Materials Science and Engineering, 2019, 680, 012026.	0.6	3
50	Transverse Impact on Rectangular Metal and Reinforced Concrete Beams Taking into Account Bimodularity of the Material. Materials, 2020, 13, 1579.	2.9	3
51	Simulation of Ball-rod Hardening of a Butt Welded Joint of Transport Bearing Structures. Transportation Research Procedia, 2021, 54, 84-91.	1.5	3
52	Optimization of Thick-Walled Viscoelastic Hollow Polymer Cylinders by Artificial Heterogeneity Creation: Theoretical Aspects. Polymers, 2021, 13, 2408.	4.5	3
53	Innovative Complex for In-Soil Fertilizer X Tenderâ€™+â€™Cenius for Mini-Till Technology. Lecture Notes in Networks and Systems, 2022, , 122-129.	0.7	3
54	Strength Characteristics Analysis of Structurally Inhomogeneous Steel Gears. Advances in Intelligent Systems and Computing, 2020, , 894-903.	0.6	2

#	ARTICLE	IF	CITATIONS
55	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.	0.6	2
56	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.	3.1	2
57	Deep Contact Strength of Surface Hardened Gears. <i>Metals</i> , 2020, 10, 600.	2.3	2
58	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.	3.1	2
59	On creating optimal working conditions in multi-storey buildings of concrete mixing plants. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 1001, 012058.	0.6	2
60	Modeling of Flow Heat Transfer Processes and Aerodynamics in the Cabins of Vehicles. <i>Fluids</i> , 2022, 7, 226.	1.7	2
61	Expanding the boundaries of the university: the Regional complex for gifted children and youth. <i>SHS Web of Conferences</i> , 2019, 70, 03005.	0.2	1
62	Quality Control of Frame Structures of Robotic Systems by Express Nondestructive Methods. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 13-20.	0.6	1
63	INDUCED BANDGAP AND MAGNETIC BEHAVIOR IN ZIGZAG GRAPHENE NANORIBBONS ON HEXAGONAL NITRIDE BORON: EDGE AND SUBSTRATE EFFECTS. <i>Vestnik of Don State Technical University</i> , 2013, 13, 75-87.	0.4	1
64	Education in China as a Topic of Russian Scientific Discourse. , 0, , .		1
65	Information and Digital Transformation of the Processes of Monitoring the Epizootic Condition of Animals. <i>Lecture Notes in Networks and Systems</i> , 2022, , 21-32.	0.7	1
66	Estimation of the losses coefficient of the vibrational energy of the woodworking technological system. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 1001, 012077.	0.6	1
67	Metal-polymer slip bearings with a porous matrix and polyamide inserts in the frictional surfaces. <i>Russian Engineering Research</i> , 2009, 29, 500-502.	0.6	0
68	Modeling of long length and complex shaped chain and planed conveyor noise forming. <i>E3S Web of Conferences</i> , 2020, 175, 05022.	0.5	0
69	The concept of the settlementsâ€™ urban linear spaces formation in the southern region of Russia (on) Tj ETQq1 1 0.784314 rgBT /Ove <i>Engineering</i> , 2020, 913, 032014.	0.6	0
70	FIGURATIVE AND CONCEPTUAL PROJECTION OF SCHOOL KNOWLEDGE IN THE CREATIVE WORKS OF MARTIROS SARYAN: A RETROSPECTIVE INSIGHT. , 2019, 75, .		0
71	Bilingualism in the scientific and educational discourse of China: psychophysiological, organizational and pedagogical aspects. <i>E3S Web of Conferences</i> , 2020, 210, 18046.	0.5	0