

# 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	Quality Control of Frame Structures of Robotic Systems by Express Nondestructive Methods. Smart Innovation, Systems and Technologies, 2022, , 13-20.	0.6	1
2	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
3	Information and Digital Transformation of the Processes of Monitoring the Episootic Condition of Animals. Lecture Notes in Networks and Systems, 2022, , 21-32.	0.7	1
4	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
5	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
6	Quantitative and Qualitative Aspects of Composite Action of Concrete and Dispersion-Reinforcing Fiber. Polymers, 2022, 14, 682.	4.5	15
7	Development of High-Tech Self-Compacting Concrete Mixtures Based on Nano-Modifiers of Various Types. Materials, 2022, 15, 2739.	2.9	21
8	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
9	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
10	High-Performance Concrete Nanomodified with Recycled Rice Straw Biochar. Applied Sciences (Switzerland), 2022, 12, 5480.	2.5	15
11	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
12	The spatial problem of strengthening the frame structures of transport vehicles. Transportation Research Procedia, 2022, 63, 2535-2541.	1.5	5
13	Modeling of Flow Heat Transfer Processes and Aerodynamics in the Cabins of Vehicles. Fluids, 2022, 7, 226.	1.7	2
14	Modeling of Vibroacoustic Characteristics of Plate Structures of Vehicles during Abrasive Processing. Transportation Research Procedia, 2021, 54, 39-46.	1.5	33
15	Simulation of Ball-rod Hardening of a Butt Welded Joint of Transport Bearing Structures. Transportation Research Procedia, 2021, 54, 84-91.	1.5	3
16	Improving the Structural Characteristics of Heavy Concrete by Combined Disperse Reinforcement. Applied Sciences (Switzerland), 2021, 11, 6031.	2.5	23
17	Estimation of the Age of Architectural Heritage Objects by Microstructural Changes of Calcite in Lime Mortars of Ancient Brickwork and Masonry. Buildings, 2021, 11, 240.	3.1	2
18	Optimization of Thick-Walled Viscoelastic Hollow Polymer Cylinders by Artificial Heterogeneity Creation: Theoretical Aspects. Polymers, 2021, 13, 2408.	4.5	3

#	ARTICLE	IF	CITATIONS
19	Ultimate Compressive Strains and Reserves of Bearing Capacity of Short RC Columns with Basalt Fiber. Applied Sciences (Switzerland), 2021, 11, 7634.	2.5	7
20	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
21	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
22	Influence of Mechanochemical Activation of Concrete Components on the Properties of Vibro-Centrifuged Heavy Concrete. Applied Sciences (Switzerland), 2021, 11, 10647.	2.5	22
23	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
24	Nanomodification of Lightweight Fiber Reinforced Concrete with Micro Silica and Its Influence on the Constructive Quality Coefficient. Materials, 2021, 14, 7347.	2.9	23
25	Finite Element and Applied Models of the Stem with Spike Deformation. Agriculture (Switzerland), 2021, 11, 1147.	3.1	15
26	Developing Environmentally Sustainable and Cost-Effective Geopolymer Concrete with Improved Characteristics. Sustainability, 2021, 13, 13607.	3.2	23
27	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
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	Strength Characteristics Analysis of Structurally Inhomogeneous Steel Gears. Advances in Intelligent Systems and Computing, 2020, , 894-903.	0.6	2
30	Limit-State Criteria and Their Use in Conditions of the Significant Structural Heterogeneity of the Gear Steel. Advances in Intelligent Systems and Computing, 2020, , 904-912.	0.6	2
31	Structural Monitoring of Underground Structures in Multi-Layer Media by Dynamic Methods. Sensors, 2020, 20, 5241.	3.8	15
32	Spectral characteristics of noise during hardening of welds of rod structures. IOP Conference Series: Materials Science and Engineering, 2020, 709, 044087.	0.6	20
33	Creation of integrated system for feeding management activities automation in beef breeding. E3S Web of Conferences, 2020, 175, 03019.	0.5	18
34	Modeling of long length and complex shaped chain and planed conveyor noise forming. E3S Web of Conferences, 2020, 175, 05022.	0.5	0
35	Influence of the Cross-Sectional Shape of a Reinforced Bimodular Beam on the Stress-Strain State in a Transverse Impact. Buildings, 2020, 10, 248.	3.1	2
36	The concept of the settlementsâ€™ urban linear spaces formation in the southern region of Russia (on) Tj ETQq0 0 0 rgBT /Overlock 10 0 Engineering, 2020, 913, 032014.	0.6	0

#	ARTICLE	IF	CITATIONS
37	Deep Contact Strength of Surface Hardened Gears. Metals, 2020, 10, 600.	2.3	2
38	Artificial Neural Networks in Classification of Steel Grades Based on Non-Destructive Tests. Materials, 2020, 13, 2445.	2.9	40
39	Transverse Impact on Rectangular Metal and Reinforced Concrete Beams Taking into Account Bimodularity of the Material. Materials, 2020, 13, 1579.	2.9	3
40	Genetic basis of the probiotic properties of Lactobacillus. E3S Web of Conferences, 2020, 203, 04016.	0.5	5
41	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
42	Innovative pneumatic device for combined seeding of various tilled crops. E3S Web of Conferences, 2020, 210, 08016.	0.5	21
43	Impact of globalization and digitalization on the efficiency of environmental development of territories. E3S Web of Conferences, 2020, 217, 06012.	0.5	21
44	Technical, technological and managerial solutions in ensuring environmental safety. IOP Conference Series: Materials Science and Engineering, 2020, 1001, 012100.	0.6	24
45	Energy-saving tillage with a combined unit with universal working bodies. IOP Conference Series: Materials Science and Engineering, 2020, 1001, 012121.	0.6	33
46	Bilingualism in the scientific and educational discourse of China: psychophysiological, organizational and pedagogical aspects. E3S Web of Conferences, 2020, 210, 18046.	0.5	0
47	Innovative technologies and equipment from "Amazona" company for fertilizer application. E3S Web of Conferences, 2020, 210, 04002.	0.5	14
48	Finite element simulation of airflow in a field cleaner. IOP Conference Series: Materials Science and Engineering, 2020, 1001, 012060.	0.6	7
49	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
50	Safe operation of transportation tunnels based on predictive modeling of active geomechanical processes. Mining Informational and Analytical Bulletin, 2020, , 86-96.	0.2	5
51	E-learning in higher inclusive education: needs, opportunities and limitations. International Journal of Educational Management, 2019, 33, 424-437.	1.5	42
52	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
53	Computer modeling of the process of depth of soil treatment. E3S Web of Conferences, 2019, 135, 01078.	0.5	46
54	Expanding the boundaries of the university: the Regional complex for gifted children and youth. SHS Web of Conferences, 2019, 70, 03005.	0.2	1

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	FIGURATIVE AND CONCEPTUAL PROJECTION OF SCHOOL KNOWLEDGE IN THE CREATIVE WORKS OF MARTIROS SARYAN: A RETROSPECTIVE INSIGHT. , 2019, 75, .		0
58	A new method for calculating the combined anchor-concrete support of underground structures. MATEC Web of Conferences, 2018, 170, 03023.	0.2	10
59	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
60	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
61	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
62	Magnetism and transport properties of zigzag graphene nanoribbons/hexagonal boron nitride heterostructures. Journal of Applied Physics, 2014, 115, 053708.	2.5	28
63	Semiconductorâ€“halfmetalâ€“metal transition and magnetism of bilayer graphene nanoribbons/hexagonal boron nitride heterostructure. Solid State Communications, 2014, 199, 1-10.	1.9	7
64	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
65	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
66	INDUCED BANDGAP AND MAGNETIC BEHAVIOR IN ZIGZAG GRAPHENE NANORIBBONS ON HEXAGONAL NITRIDE BORON: EDGE AND SUBSTRATE EFFECTS. Vestnik of Don State Technical University, 2013, 13, 75-87.	0.4	1
67	Metal-polymer slip bearings with a porous matrix and polyamide inserts in the frictional surfaces. Russian Engineering Research, 2009, 29, 500-502.	0.6	0
68	On creating optimal working conditions in multi-storey buildings of concrete mixing plants. IOP Conference Series: Materials Science and Engineering, 0, 1001, 012058.	0.6	2
69	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
70	Education in China as a Topic of Russian Scientific Discourse. , 0, , .		1
71	Estimation of the losses coefficient of the vibrational energy of the woodworking technological system. IOP Conference Series: Materials Science and Engineering, 0, 1001, 012077.	0.6	1