

Andrey V Benin

List of Publications by Year in descending order

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42
papers

270
citations

1040056

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citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Deformations of Foundation Pit Structures and Surrounding Buildings during the Construction of the Second Scene of the State Academic Mariinsky Theatre in Saint-petersburg Considering Stage-by-stage Nature of Construction Process. Procedia Engineering, 2016, 165, 1483-1489.	1.2	21
2	Finite element simulation of a motorway bridge collapse using the concrete damage plasticity model. E3S Web of Conferences, 2020, 157, 06018.	0.5	20
3	Designing Scenarios of Damage Accumulation. Advances in Intelligent Systems and Computing, 2019, , 600-610.	0.6	19
4	Simulation of degradation of bond between reinforcing bar and concrete. Part 1. Models with account of the discontinuity. Magazine of Civil Engineering, 2013, 40, 86-99.	1.9	16
5	Rating of Dynamic Coefficient for Simple Beam Bridge Design on High-Speed Railways. Civil and Environmental Engineering, 2018, 14, 37-43.	1.2	15
6	Fracture Analysis of Reinforced Concrete Bridge Structures with Account of Concrete Cracking under Steel Corrosion. Advanced Materials Research, 2013, 831, 364-369.	0.3	14
7	Study in the Structural Behavior of Precast Lining of a Large Diameter Multifunctional Tunnel Performed by Means of Finite Elements Analysis with Respect to Saint-Petersburg Geological Conditions. Civil and Environmental Engineering, 2019, 15, 85-91.	1.2	12
8	Design of Dynamic Parameters for Simple Beam Bridges on High-Speed Railways. IOP Conference Series: Materials Science and Engineering, 2018, 463, 022048.	0.6	11
9	An assessment of the sewer tunnel stress-strain behavior during the reconstruction of an object of cultural heritage. E3S Web of Conferences, 2020, 157, 02008.	0.5	10
10	Predicting the loss of stability of loaded structural elements using the method of acoustic emission. Technical Physics Letters, 2007, 33, 62-64.	0.7	9
11	An assessment of the dynamic interaction of the rolling stock and the long-span bridges on high-speed railways. MATEC Web of Conferences, 2017, 107, 00014.	0.2	9
12	"Track-Bridge" Interaction Problems in High Speed Bridge Design. International Journal of Engineering and Technology(UAE), 2018, 7, 194.	0.3	9
13	On estimating the reduction factor of bridge piers. E3S Web of Conferences, 2020, 157, 06012.	0.5	9
14	Justification of the bridge span vertical stiffness on high-speed railways. E3S Web of Conferences, 2019, 135, 03065.	0.5	8
15	Fracture simulation of reinforced concrete structures with account of bond degradation and concrete cracking under steel corrosion. , 2012, , 233-237.		8
16	Research of interaction of the "train" bridge-system with bridge deck resonant vibrations. MATEC Web of Conferences, 2018, 239, 05002.	0.2	7
17	The Simulation of Bond Fracture between Reinforcing Bars and concrete. Part 2. Models without taking the Bond Discontinuity into account. Magazine of Civil Engineering, 2014, 45, 23-40.	1.9	7
18	Experimental Study and Mathematical Modeling of Bond of Different Types Winding Glass-Plastic Reinforcement with Concrete. Applied Mechanics and Materials, 0, 617, 215-220.	0.2	6

#	ARTICLE	IF	CITATIONS
19	The Experimental Study of Concrete Beams Reinforced with Different Types of Bars Carrying Capacity. MATEC Web of Conferences, 2016, 53, 01047.	0.2	6
20	Parameter identification for coupled elasto-plasto-damage model for overheated concrete. MATEC Web of Conferences, 2017, 107, 00042.	0.2	6
21	Simulation of Pulling the Reinforcing Bar from Concrete Block with Account of Friction and Concrete Damage. MATEC Web of Conferences, 2016, 73, 04010.	0.2	5
22	Regulation of the Dynamic Live Load Factor for Calculation of Bridge Structures on High-Speed Railway Mainlines. Civil and Environmental Engineering, 2017, 13, 12-19.	1.2	5
23	Influence of Storage Conditions and Corrosive Environments on the Mechanical Properties of GFRP Rebars. Civil and Environmental Engineering, 2018, 14, 86-90.	1.2	5
24	Geotechnical Analysis of Structural Behaviour Under Complex Geological Engineering Conditions. Procedia Engineering, 2017, 189, 65-69.	1.2	4
25	Modeling of nonlinear multiaxial deformation of concrete on the base of hyperelastic orthotropic model. MATEC Web of Conferences, 2016, 53, 01043.	0.2	3
26	Methodology for Assessing the Response Parameters of Multi-storey Buildings with Non-linear Dynamic Vibration Dampers in Case of Seismic Impacts. Lecture Notes in Civil Engineering, 2022, , 553-564.	0.4	3
27	Experimental Research of New Tram Track Construction Operating Fatigue Capacity. Advanced Materials Research, 2014, 1025-1026, 849-853.	0.3	2
28	Issues of standardizing requirements for resistance and strength of railroad automation and signaling systems used in high-speed railways versus external mechanical impact. Russian Electrical Engineering, 2016, 87, 292-296.	0.6	2
29	Efficiency of Using Tuned Mass Damper to Reduce Damage after Strong Earthquakes. MATEC Web of Conferences, 2018, 239, 05014.	0.2	2
30	Accounting for effects of decreasing bond between concrete and rebars on seismic resistance of reinforced concrete structural elements. Journal of Civil Engineering and Management, 2005, 11, 163-168.	3.5	1
31	Analysis of the acoustic emission technique used in laboratory tests of reinforced-concrete structures. Russian Journal of Nondestructive Testing, 2006, 42, 790-793.	0.9	1
32	Simulation and Experimental Investigation of Deformation and Fracture of the Masonry. Applied Mechanics and Materials, 0, 725-726, 661-666.	0.2	1
33	Influence of Long-Term Exposure in the Concrete of FRP Rebars on Bond Characteristics. Solid State Phenomena, 0, 263, 3-6.	0.3	1
34	EXPERIMENTAL AND THEORETICAL VALIDATION OF DOUBLE COLUMN INTERNAL FIXATION THEORY FOR DISTAL FEMORAL FRACTURES. Travmatologiya I Ortopediya Rossii, 2017, 23, 86-94.	0.5	1
35	Application of Continuum Damage Mechanics Approach for the Strength Analysis of Reinforced Concrete Constructions. Applied Mechanics and Materials, 2015, 725-726, 605-610.	0.2	0
36	Modeling of Deformation and Fracture of Concrete Structures with FRP Reinforcement. Applied Mechanics and Materials, 0, 752-753, 685-688.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Forecasting the strength properties of the large diameter polymer rebar based on the experimental analysis of its structure. MATEC Web of Conferences, 2020, 313, 00036.	0.2	0
38	Suitability assessment of the traditional unified railway bridge girders for high-speed traffic. MATEC Web of Conferences, 2020, 313, 00001.	0.2	0
39	Research of Statistical Uncertainties in Measuring the Mass of a Car in Motion Under Repeatability Conditions. Lecture Notes in Networks and Systems, 2022, , 304-312.	0.7	0
40	Modeling of Dynamic Crack Propagation Under Quasistatic Loading. Lecture Notes in Networks and Systems, 2022, , 577-585.	0.7	0
41	Analysis of the Possibility of Detecting Inhomogeneous Metal Inclusions in Welded Joints of Rails Under Ultrasonic Control. Lecture Notes in Networks and Systems, 2022, , 674-682.	0.7	0
42	Factors Affecting Additional Pressure Distribution from Ground Construction on Subway Tunnels. Proceedings of Petersburg Transport University, 2022, 19, 367-377.	0.2	0