

Nina Selyutina

List of Publications by Year in descending order

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papers

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1163117

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126
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#	ARTICLE	IF	CITATIONS
1	The definition of characteristic times of plastic relaxation by dislocation slip and grain boundary sliding in copper and nickel. <i>International Journal of Plasticity</i> , 2016, 82, 97-111.	8.8	51
2	On application of Fung's quasi-linear viscoelastic model to modeling of impact experiment for articular cartilage. <i>Mechanics Research Communications</i> , 2015, 67, 24-30.	1.8	19
3	Fracture of saturated concrete and rocks under dynamic loading. <i>Engineering Fracture Mechanics</i> , 2020, 225, 106265.	4.3	14
4	Comparative Analysis of Dynamic Plasticity Models. <i>Reviews on Advanced Materials Science</i> , 2018, 57, 199-211.	3.3	12
5	Prediction of the Dynamic Yield Strength of Metals Using Two Structural-Temporal Parameters. <i>Physics of the Solid State</i> , 2018, 60, 244-249.	0.6	11
6	Temporal peculiarities of brittle fracture of rocks and concrete. <i>Frattura Ed Integrita Strutturale</i> , 2013, 7, 112-118.	0.9	10
7	The dynamic strength of concrete and macroscopic temporal parameter characterized in fracture process. <i>Procedia Structural Integrity</i> , 2016, 2, 438-445.	0.8	9
8	Impact problem for the quasi-linear viscoelastic standard solid model. <i>Journal of Strain Analysis for Engineering Design</i> , 2016, 51, 294-303.	1.8	9
9	Physical nature of strain rate sensitivity of metals and alloys at high strain rates. <i>Journal of Physics: Conference Series</i> , 2018, 991, 012012.	0.4	9
10	Structuralâ€“Temporal Peculiarities of Dynamic Deformation of Nanostructured and Nanoscaled Metals. <i>Physics of the Solid State</i> , 2018, 60, 1813-1820.	0.6	9
11	Viscoelastic modeling of articular cartilage under impact loading. <i>Meccanica</i> , 2018, 53, 519-530.	2.0	8
12	Thermally-induced mechanical degradation analysis of recycled aggregate concrete mixed with glazed hollow beads. <i>Construction and Building Materials</i> , 2021, 301, 124350.	7.2	8
13	Study on pore characteristics of recycled aggregate concrete mixed with glazed hollow beads at high temperatures based on 3-D reconstruction of computed tomography images. <i>Construction and Building Materials</i> , 2022, 323, 126564.	7.2	8
14	Temperature relaxation model of plasticity for metals under dynamic loading. <i>Mechanics of Materials</i> , 2020, 150, 103589.	3.2	6
15	Effect of Plastic Strain Stabilization under Low-Cycle Deformation. <i>Physical Mesomechanics</i> , 2020, 23, 384-389.	1.9	5
16	Instabilities of Dynamic Strain Diagrams Predicted by the Relaxation Model of Plasticity. <i>Journal of Dynamic Behavior of Materials</i> , 2022, 8, 304-315.	1.7	5
17	Relaxation model for dynamic plastic deformation of materials. <i>EPJ Web of Conferences</i> , 2015, 94, 04039.	0.3	4
18	Incubation time criterion analysis of rock materials under dynamic loadings. <i>Procedia Structural Integrity</i> , 2017, 6, 336-343.	0.8	4

#	ARTICLE	IF	CITATIONS
19	Modeling the Time Effects of Irreversible Deformation Based on the Relaxation Plasticity Model. <i>Physics of the Solid State</i> , 2019, 61, 935-940.	0.6	4
20	Scale and size effects in dynamic fracture of concretes and rocks. <i>EPJ Web of Conferences</i> , 2015, 94, 04005.	0.3	3
21	Determining characteristic plastic-relaxation times using micro- and nanocrystalline nickel as an example. <i>Doklady Physics</i> , 2016, 61, 143-146.	0.7	2
22	Prediction of the effect of plastic-strain stabilization under cyclic deformation based on the structural-temporal approach. <i>Doklady Physics</i> , 2017, 62, 475-477.	0.7	2
23	Structural and temporal features of high-rate deformation of metals. <i>Doklady Physics</i> , 2017, 62, 102-105.	0.7	2
24	Effect of the Mass Fraction of Ice on the Strain Rate Dependence of Strength under Dynamic Fracture of Frozen Soil. <i>Journal of Applied Mechanics and Technical Physics</i> , 2019, 60, 533-538.	0.5	2
25	Stabilisation effect of strain hysteresis loop for steel 45. <i>International Journal of Fatigue</i> , 2021, 145, 106133.	5.7	2
26	Dynamic deformation of fiber-metal laminates depending on its metal thickness. <i>Procedia Structural Integrity</i> , 2020, 28, 1310-1314.	0.8	2
27	Prediction of the Temperature-Time Effects of Irreversible Deformation for 2519A Aluminum Alloy. <i>Physical Mesomechanics</i> , 2020, 23, 487-493.	1.9	2
28	The water-saturation effect for concretes and rocks subjected to high strain rates. <i>Procedia Structural Integrity</i> , 2018, 13, 705-709.	0.8	1
29	The Strain-Rate Sensitivity of Irreversible Deformation of the Metallic Multilayer Composite GLARE. <i>Doklady Physics</i> , 2019, 64, 340-343.	0.7	1
30	Influence of Dynamic Loads on the Fracture of Brittle Layers of a Multilayer Composite. <i>Journal of Dynamic Behavior of Materials</i> , 0, , 1.	1.7	1
31	The definition of flow stress under dynamic loading based on relaxation model of plasticity. <i>Procedia Structural Integrity</i> , 2017, 6, 77-82.	0.8	0
32	On the temporal peculiarities of stabilization effect under cyclic deformation for steel. <i>Procedia Structural Integrity</i> , 2017, 6, 265-268.	0.8	0
33	Temporal effects of dynamic yielding under high-rate loading. <i>Procedia Structural Integrity</i> , 2018, 13, 700-704.	0.8	0
34	Low-cycle deformation of steel C45E under rigid loading. <i>Procedia Structural Integrity</i> , 2022, 39, 157-160.	0.8	0
35	Rate dependences of dynamic fracture toughness and fracture energy of rocks. , 2022, 25, 101-108.		0
36	Structural-Temporal Peculiarities of Dynamic Deformation of Layered Materials. <i>Materials</i> , 2022, 15, 4271.	2.9	0