

Aleksandr S Grigoriev

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

166
citations

1684188

5
h-index

1125743

13
g-index

29
all docs

29
docs citations

29
times ranked

62
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the Quasi-Static and Dynamic Fracture of the Silica Refractory Using the Mesoscale Discrete Element Modelling. <i>Materials</i> , 2021, 14, 7376.	2.9	12
2	The nonlinear relationship between local and macroscopic parameters of dynamic fracture in brittle composite materials. <i>Journal of Physics: Conference Series</i> , 2020, 1666, 012016.	0.4	0
3	Study of the pattern of fluid flow in the pore space of kerogen-clay-carbonate-siliceous rocks of Bazhenov Suite. <i>Journal of Physics: Conference Series</i> , 2020, 1666, 012063.	0.4	0
4	Suppression of wear in dry sliding friction induced by negative thermal expansion. <i>Physical Review E</i> , 2020, 102, 042801.	2.1	6
5	Theoretical analysis of the mechanical characteristics of bimetallic composites manufactured by electron-beam additive technology with metal filaments. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
6	Microscopic mechanical model of the main structural element of Bazhenov Suite reservoir rocks. <i>Journal of Physics: Conference Series</i> , 2019, 1268, 012019.	0.4	1
7	Influence of fracture incubation time on dynamic crack propagation in brittle solids. <i>EPJ Web of Conferences</i> , 2019, 221, 01013.	0.3	1
8	The development of the formalism of movable cellular automata for modeling the nonlinear mechanical behavior of viscoelastic materials. <i>EPJ Web of Conferences</i> , 2019, 221, 01052.	0.3	2
9	Fracture incubation time and scale invariance of dynamic crack propagation in brittle solids. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
10	Kinetic approach to the development of computational dynamic models for brittle solids. <i>International Journal of Impact Engineering</i> , 2019, 123, 14-25.	5.0	11
11	Development of the formalism of the discrete element method for the study of the mechanical behavior of liquid-saturated porous materials on a pore scale. <i>Journal of Physics: Conference Series</i> , 2019, 1391, 012023.	0.4	0
12	The model of dynamic mechanical behaviour of brittle solids based on kinetic theory of strength. <i>Journal of Physics: Conference Series</i> , 2018, 1141, 012076.	0.4	0
13	The model of dynamic inelastic behavior of brittle solids based on the concept of finite fracture time. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
14	Numerical analysis of the applicability of engineering linear models of inelastic behavior and fracture for the description of porous rocks under confined conditions. <i>Journal of Physics: Conference Series</i> , 2018, 1141, 012077.	0.4	0
15	The Fundamental Regularities of the Evolution of Elastic Vortices Generated in the Surface Layers of Solids under Tangential Contact Loading. <i>Lubricants</i> , 2018, 6, 51.	2.9	2
16	Acoustic emission characterization of sliding wear under condition of direct and inverse transformations in low-temperature degradation aged Y-TZP and Y-TZP-AL ₂ O ₃ . <i>Friction</i> , 2018, 6, 323-340.	6.4	17
17	THE NUMERICAL MODEL OF DYNAMIC MECHANICAL BEHAVIOR OF BRITTLE MATERIALS BASED ON THE CONCEPT OF THE KINETIC THEORY OF STRENGTH. <i>PNRPU Mechanics Bulletin</i> , 2018, , .	0.4	0
18	An approach to determining the parameters of kinetic strength theory based dynamic model of brittle solids mechanical behavior. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3

#	ARTICLE	IF	CITATIONS
19	Use of controlled dynamic impacts on hierarchically structured seismically hazardous faults for seismically safe relaxation of shear stresses. AIP Conference Proceedings, 2017, , .	0.4	4
20	Review on general features of elastic vortex-like dynamic objects generated in zones of contact interaction of solids. AIP Conference Proceedings, 2017, , .	0.4	0
21	THE NUMERICAL MODEL OF DYNAMIC MECHANICAL BEHAVIOR OF BRITTLE MATERIALS BASED ON THE CONCEPT OF THE KINETIC THEORY OF STRENGTH. , 2017, , .		0
22	Comparative analysis of different models of interphase boundaries in metal-ceramic composites. AIP Conference Proceedings, 2016, , .	0.4	0
23	Effect of dynamic stress state perturbation on irreversible strain accumulation at interfaces in block-structured media. Physical Mesomechanics, 2016, 19, 136-148.	1.9	26
24	Theoretical investigation of influence of peculiarities of internal structure on deformation and fracture of metal-ceramic composites using discrete element approach. Procedia Structural Integrity, 2016, 2, 2214-2221.	0.8	0
25	Development of DEM formalism to modeling the dynamic response of brittle solids. AIP Conference Proceedings, 2016, , .	0.4	2
26	On the influence of dynamic stress variations on strain accumulation in fault zones. AIP Conference Proceedings, 2015, , .	0.4	0
27	The numerical study of fracture and strength characteristics of heterogeneous brittle materials under dynamic loading. , 2014, , .		1
28	Multiscale Numerical Study of Fracture and Strength Characteristics of Zirconium Alumina Concrete with Use of the Particle-based MCA Method. , 2014, 3, 936-941.		0
29	A mathematical model of particleâ€“particle interaction for discrete element based modeling of deformation and fracture of heterogeneous elasticâ€“plastic materials. Engineering Fracture Mechanics, 2014, 130, 96-115.	4.3	77