Aleksandr S Grigoriev

List of Publications by Year
in descending order

29	166	1684188	1125743
papers	citations	5	13
		h-index	g-index

29	29	29	62
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A mathematical model of particle–particle interaction for discrete element based modeling of deformation and fracture of heterogeneous elastic–plastic materials. Engineering Fracture Mechanics, 2014, 130, 96-115.	4.3	77
2	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
3	Acoustic emission characterization of sliding wear under condition of direct and inverse transformations in low-temperature degradation aged Y-TZP and Y-TZP-AL2O3. Friction, 2018, 6, 323-340.	6.4	17
4	Analysis of the Quasi-Static and Dynamic Fracture of the Silica Refractory Using the Mesoscale Discrete Element Modelling. Materials, 2021, 14, 7376.	2.9	12
5	Kinetic approach to the development of computational dynamic models for brittle solids. International Journal of Impact Engineering, 2019, 123, 14-25.	5.0	11
6	Suppression of wear in dry sliding friction induced by negative thermal expansion. Physical Review E, 2020, 102, 042801.	2.1	6
7	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
8	An approach to determining the parameters of kinetic strength theory based dynamic model of brittle solids mechanical behavior. AIP Conference Proceedings, 2017, , .	0.4	3
9	Development of DEM formalism to modeling the dynamic response of brittle solids. AIP Conference Proceedings, 2016, , .	0.4	2
10	The Fundamental Regularities of the Evolution of Elastic Vortices Generated in the Surface Layers of Solids under Tangential Contact Loading. Lubricants, 2018, 6, 51.	2.9	2
11	The development of the formalism of movable cellular automata for modeling the nonlinear mechanical behavior of viscoelastic materials. EPJ Web of Conferences, 2019, 221, 01052.	0.3	2
12	The numerical study of fracture and strength characteristics of heterogeneous brittle materials under dynamic loading. , 2014, , .		1
13	Microscopic mechanical model of the main structural element of Bazhenov Suite reservoir rocks. Journal of Physics: Conference Series, 2019, 1268, 012019.	0.4	1
14	Influence of fracture incubation time on dynamic crack propagation in brittle solids. EPJ Web of Conferences, 2019, 221, 01013.	0.3	1
15	Fracture incubation time and scale invariance of dynamic crack propagation in brittle solids. AIP Conference Proceedings, 2019, , .	0.4	1
16	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
17	On the influence of dynamic stress variations on strain accumulation in fault zones. AIP Conference Proceedings, 2015, , .	0.4	0
18	Comparative analysis of different models of interphase boundaries in metal-ceramic composites. AIP Conference Proceedings, 2016, , .	0.4	0

#	Article	IF	Citations
19	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
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 model of dynamic mechanical behaviour of brittle solids based on kinetic theory of strength. Journal of Physics: Conference Series, 2018, 1141, 012076.	0.4	0
22	The model of dynamic inelastic behavior of brittle solids based on the concept of finite fracture time. AIP Conference Proceedings, 2018, , .	0.4	0
23	Numerical analysis of the applicability of engineering linear models of inelastic behavior and fracture for the description of porous rocks under confined conditions. Journal of Physics: Conference Series, 2018, 1141, 012077.	0.4	0
24	The nonlinear relationship between local and macroscopic parameters of dynamic fracture in brittle composite materials. Journal of Physics: Conference Series, 2020, 1666, 012016.	0.4	0
25	Study of the pattern of fluid flow in the pore space of kerogen-clay-carbonate-siliceous rocks of Bazhenov Suite. Journal of Physics: Conference Series, 2020, 1666, 012063.	0.4	0
26	THE NUMERICAL MODEL OF DYNAMIC MECHANICAL BEHAVIOR OF BRITTLE MATERIALS BASED ON THE CONCEPT OF THE KINETIC THEORY OF STRENGTH. , 2017, , .		0
27	THE NUMERICAL MODEL OF DYNAMIC MECHANICAL BEHAVIOR OF BRITTLE MATERIALS BASED ON THE CONCEPT OF THE KINETIC THEORY OF STRENGTH. PNRPU Mechanics Bulletin, 2018, , .	0.4	0
28	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. Journal of Physics: Conference Series, 2019, 1391, 012023.	0.4	0
29	Theoretical analysis of the mechanical characteristics of bimetallic composites manufactured by electron-beam additive technology with metal filaments. AIP Conference Proceedings, 2020, , .	0.4	0