Vladimir A Bratov

List of Publications by Year
in descending order

38 papers	434 citations	759233 12 h-index	752698 20 g-index
42 all docs	42 docs citations	42 times ranked	249 citing authors

#	Article	IF	Citations
1	Seismic barriers filled with solid elastic and granular materials: Comparative analysis. Mathematics and Mechanics of Solids, 2022, 27, 1761-1770.	2.4	3
2	SEISMIC BARRIERS FOR PROTECTION AGAINST SURFACE AND HEADWAVES: MULTIPLE SCATTERS AND METAMATERIALS. Mechanics of Solids, 2021, 56, 911-921.	0.7	6
3	Numerical simulations of impact Taylor tests. Journal of Physics: Conference Series, 2020, 1556, 012059.	0.4	3
4	Experimental and numerical analysis of PMMA impact fracture. International Journal of Impact Engineering, 2020, 143, 103597.	5.0	16
5	An investigation of the ballistic performance of independent ceramic target. Thin-Walled Structures, 2020, 154, 106784.	5.3	25
6	Experimental and numerical analyses of microstructure evolution of Cu-Cr-Zr alloys during severe plastic deformation. Materials Characterization, 2019, 156, 109849.	4.4	21
7	Seismic barriers: theory and numerical simulations. E3S Web of Conferences, 2019, 97, 03005.	0.5	2
8	Analysis of energy required for initiation of inclined crack under uniaxial compression and mixed loading. Engineering Fracture Mechanics, 2019, 216, 106518.	4.3	4
9	Non-equilibrium approach to prediction of microstructure evolution for metals undergoing severe plastic deformation. Materials Characterization, 2018, 141, 267-278.	4.4	13
10	Ballistic Characteristics of Bi-layered Armour with Various Aluminium Backing against Ogive Nose Projectile. Procedia Structural Integrity, 2017, 6, 40-47.	0.8	5
11	Numerical simulations of Taylor anvil-on-rod impact tests using classical and new approaches. Procedia Structural Integrity, 2017, 6, 330-335.	0.8	2
12	Grain Refinement Kinetics in a Low Alloyed Cu–Cr–Zr Alloy Subjected to Large Strain Deformation. Materials, 2017, 10, 1394.	2.9	21
13	On steady-state moving load problems for an elastic half-space. , 2016, , .		1
14	Dynamic crack propagation: quasistatic and impact loading. Procedia Structural Integrity, 2016, 2, 389-394.	0.8	5
15	Numerical simulation of ZrO2(Y2O3) ceramic plate penetration by cylindrical plunger. EPJ Web of Conferences, 2015, 94, 04056.	0.3	0
16	Numerical implementation of the incubation time fracture criterion. Journal of Physics: Conference Series, 2015, 653, 012049.	0.4	2
17	Simulation of ceramics fracture due to high rate dynamic impact. Journal of Physics: Conference Series, 2015, 653, 012050.	0.4	1
18	Comparison of dislocation density based approaches for prediction of defect structure evolution in aluminium and copper processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 631, 10-17.	5.6	47

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19	Energy of a solid sphere under nonstationary oscillations. Science China: Physics, Mechanics and Astronomy, 2014, 57, 469-476.	5.1	1
20	Simulation of dynamic crack propagation under quasi-static loading. Doklady Physics, 2014, 59, 99-102.	0.7	11
21	Multi-scale dynamic fracture model for quasi-brittle materials. International Journal of Engineering Science, 2012, 61, 3-9.	5.0	48
22	Structural-temporal theory of fracture as a multiscale process. Physical Mesomechanics, 2012, 15, 232-237.	1.9	32
23	Incubation time approach in rock fracture dynamics. Science China: Physics, Mechanics and Astronomy, 2012, 55, 78-85.	5.1	12
24	Incubation time fracture criterion for FEM simulations. Acta Mechanica Sinica/Lixue Xuebao, 2011, 27, 541-549.	3.4	13
25	Transient near tip fields in crack dynamics. Science China: Physics, Mechanics and Astronomy, 2011, 54, 1309-1318.	5.1	5
26	Existence of Optimal Energy Saving Parameters for Different Industrial Processes. Applied Mechanics and Materials, 2011, 82, 208-213.	0.2	0
27	Multiscale Fracture Model for Quasi-Brittle Materials. Applied Mechanics and Materials, 2011, 82, 160-165.	0.2	2
28	Energy-Based Analysis of Ultrasonically Assisted Turning. Shock and Vibration, 2011, 18, 333-341.	0.6	21
29	Energy aspects of ultrasonic intensification of treatment of metals. Doklady Physics, 2010, 55, 184-185.	0.7	1
30	10.1007/s11446-008-3009-0. , 2010, 53, 152.		0
31	Minimization of fracture-pulse energy under contact interaction. Doklady Physics, 2009, 54, 322-324.	0.7	1
32	Simulating the SMART1 orbiter impact on the Moon's surface. Doklady Physics, 2008, 53, 152-155.	0.7	0
33	A criterion for detonation initiation in gas mixtures. Doklady Physics, 2008, 53, 507-509.	0.7	2
34	Optimizing energy input for fracture by analysis of the energy required to initiate dynamic mode I crack growth. International Journal of Solids and Structures, 2007, 44, 2371-2380.	2.7	37
35	Application of the incubation time criterion to the description of dynamic crack propagation. Doklady Physics, 2007, 52, 565-567.	0.7	5
36	Application of incubation time approach to simulate dynamic crack propagation. International Journal of Fracture, 2007, 146, 53-60.	2.2	37

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37	Energy balance in the crack growth initiation under pulsed-load conditions. Doklady Physics, 2004, 49, 338-341.	0.7	22
38	Simulation of Dynamic Crack Propagation under Quasistatic Loading. Applied Mechanics and Materials, 0, 532, 337-341.	0.2	1