

Vladimir A Bratov

List of Publications by Year in descending order

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38
papers

434
citations

759233

12
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752698

20
g-index

42
all docs

42
docs citations

42
times ranked

249
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-scale dynamic fracture model for quasi-brittle materials. International Journal of Engineering Science, 2012, 61, 3-9.	5.0	48
2	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
3	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
4	Application of incubation time approach to simulate dynamic crack propagation. International Journal of Fracture, 2007, 146, 53-60.	2.2	37
5	Structural-temporal theory of fracture as a multiscale process. Physical Mesomechanics, 2012, 15, 232-237.	1.9	32
6	An investigation of the ballistic performance of independent ceramic target. Thin-Walled Structures, 2020, 154, 106784.	5.3	25
7	Energy balance in the crack growth initiation under pulsed-load conditions. Doklady Physics, 2004, 49, 338-341.	0.7	22
8	Grain Refinement Kinetics in a Low Alloyed Cu-Cr-Zr Alloy Subjected to Large Strain Deformation. Materials, 2017, 10, 1394.	2.9	21
9	Experimental and numerical analyses of microstructure evolution of Cu-Cr-Zr alloys during severe plastic deformation. Materials Characterization, 2019, 156, 109849.	4.4	21
10	Energy-Based Analysis of Ultrasonically Assisted Turning. Shock and Vibration, 2011, 18, 333-341.	0.6	21
11	Experimental and numerical analysis of PMMA impact fracture. International Journal of Impact Engineering, 2020, 143, 103597.	5.0	16
12	Incubation time fracture criterion for FEM simulations. Acta Mechanica Sinica/Lixue Xuebao, 2011, 27, 541-549.	3.4	13
13	Non-equilibrium approach to prediction of microstructure evolution for metals undergoing severe plastic deformation. Materials Characterization, 2018, 141, 267-278.	4.4	13
14	Incubation time approach in rock fracture dynamics. Science China: Physics, Mechanics and Astronomy, 2012, 55, 78-85.	5.1	12
15	Simulation of dynamic crack propagation under quasi-static loading. Doklady Physics, 2014, 59, 99-102.	0.7	11
16	SEISMIC BARRIERS FOR PROTECTION AGAINST SURFACE AND HEADWAVES: MULTIPLE SCATTERS AND METAMATERIALS. Mechanics of Solids, 2021, 56, 911-921.	0.7	6
17	Application of the incubation time criterion to the description of dynamic crack propagation. Doklady Physics, 2007, 52, 565-567.	0.7	5
18	Transient near tip fields in crack dynamics. Science China: Physics, Mechanics and Astronomy, 2011, 54, 1309-1318.	5.1	5

#	ARTICLE	IF	CITATIONS
19	Dynamic crack propagation: quasistatic and impact loading. <i>Procedia Structural Integrity</i> , 2016, 2, 389-394.	0.8	5
20	Ballistic Characteristics of Bi-layered Armour with Various Aluminium Backing against Ogive Nose Projectile. <i>Procedia Structural Integrity</i> , 2017, 6, 40-47.	0.8	5
21	Analysis of energy required for initiation of inclined crack under uniaxial compression and mixed loading. <i>Engineering Fracture Mechanics</i> , 2019, 216, 106518.	4.3	4
22	Numerical simulations of impact Taylor tests. <i>Journal of Physics: Conference Series</i> , 2020, 1556, 012059.	0.4	3
23	Seismic barriers filled with solid elastic and granular materials: Comparative analysis. <i>Mathematics and Mechanics of Solids</i> , 2022, 27, 1761-1770.	2.4	3
24	A criterion for detonation initiation in gas mixtures. <i>Doklady Physics</i> , 2008, 53, 507-509.	0.7	2
25	Multiscale Fracture Model for Quasi-Brittle Materials. <i>Applied Mechanics and Materials</i> , 2011, 82, 160-165.	0.2	2
26	Numerical implementation of the incubation time fracture criterion. <i>Journal of Physics: Conference Series</i> , 2015, 653, 012049.	0.4	2
27	Numerical simulations of Taylor anvil-on-rod impact tests using classical and new approaches. <i>Procedia Structural Integrity</i> , 2017, 6, 330-335.	0.8	2
28	Seismic barriers: theory and numerical simulations. <i>E3S Web of Conferences</i> , 2019, 97, 03005.	0.5	2
29	Minimization of fracture-pulse energy under contact interaction. <i>Doklady Physics</i> , 2009, 54, 322-324.	0.7	1
30	Energy aspects of ultrasonic intensification of treatment of metals. <i>Doklady Physics</i> , 2010, 55, 184-185.	0.7	1
31	Energy of a solid sphere under nonstationary oscillations. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 469-476.	5.1	1
32	Simulation of Dynamic Crack Propagation under Quasistatic Loading. <i>Applied Mechanics and Materials</i> , 0, 532, 337-341.	0.2	1
33	Simulation of ceramics fracture due to high rate dynamic impact. <i>Journal of Physics: Conference Series</i> , 2015, 653, 012050.	0.4	1
34	On steady-state moving load problems for an elastic half-space. , 2016, , .		1
35	Simulating the SMART1 orbiter impact on the Moon's surface. <i>Doklady Physics</i> , 2008, 53, 152-155.	0.7	0
36	Existence of Optimal Energy Saving Parameters for Different Industrial Processes. <i>Applied Mechanics and Materials</i> , 2011, 82, 208-213.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Numerical simulation of ZrO ₂ (Y ₂ O ₃) ceramic plate penetration by cylindrical plunger. EPJ Web of Conferences, 2015, 94, 04056.	0.3	0
38	10.1007/s11446-008-3009-0. , 2010, 53, 152.		0