Vladimir A Oborin

List of Publications by Year
in descending order

34	60	1937685 4	1720034 7
papers	citations	h-index	g-index

34	34	34	22
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multiscale study of morphology of the fracture surface aluminum-magnesium alloy with consecutive dynamic and gigacycle loading. Procedia Structural Integrity, 2016, 2, 1063-1070.	0.8	10
2	Structural mechanisms of formation of adiabatic shear bands. Frattura Ed Integrita Strutturale, 2016, 10, 296-304.	0.9	7
3	FRACTAL ANALYSIS OF FRACTURE SURFACE OF ALUMINUM ALLOY AMg6 UNDER FATIGUE AND DYNAMIC LOADING. PNRPU Mechanics Bulletin, 2015, , 116-126.	0.4	6
4	Structural and mechanical investigation of the estimating reliability of aluminum alloys with consecutive dynamic and gigacycle loading. AIP Conference Proceedings, 2016, , .	0.4	5
5	Structure and properties of proton exchange waveguides on Z cut of lithium niobate crystal fabricated in molten benzoic acid with the addition of lithium benzoate. , 2012, , .		4
6	Experimental study of crack initiation and propagation in high- and gigacycle fatigue in titanium alloys. AIP Conference Proceedings, 2014, , .	0.4	4
7	Critical Dynamics of Defects and Mechanisms of Damage-Failure Transitions in Fatigue. Materials, 2021, 14, 2554.	2.9	4
8	Scaling Invariance of Fatigue Crack Growth in Aluminum Alloy. , 2014, 3, 1004-1008.		3
9	Multiscale study of fracture in aluminum-magnesium alloy under fatigue and dynamic loading. Frattura Ed Integrita Strutturale, 2016, , .	0.9	3
10	Numerical simulation and experimental investigation of strain and damage localization in metals under dynamic loading. , 2014, , .		2
11	Experimental and numerical study of plastic shear instability under high-speed loading conditions. , 2014, , .		2
12	Characteristic Features of Ultrafine-Grained Ti-45 wt.% Nb Alloy under High Cycle Fatigue. Materials, 2021, 14, 5365.	2.9	2
13	Damage evolution in the AMg6 alloy during high and very high cycle fatigue. Frattura Ed Integrita Strutturale, 2019, 13, 383-395.	0.9	2
14	Damage-failure transition under consecutive dynamic and very high cycle fatigue loads. Journal of Applied Physics, 2022, 131, .	2.5	2
15	Scaling invariance of fracture in aluminum alloy under fatigue and dynamic loading. , 2014, , .		1
16	Study of plastic strain localization mechanisms caused by nonequilibrium transitions in mesodefect ensembles under high-speed loading. AIP Conference Proceedings, 2015, , .	0.4	1
17	Mechanical and microstructural aspects of material failure due to localized shear under high-rate loading conditions. AIP Conference Proceedings, 2018, , .	0.4	1
18	Prediction of aluminum alloy (AlMg6) lifetime under consecutive shock-wave and gigacycle fatigue loads. AIP Conference Proceedings, 2018, , .	0.4	1

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19	Peculiarities of chemical etching of the annealed proton exchange channel waveguides fabricated on Z cut of lithium niobate crystal. , 2012, , .		0
20	Mechanical and Microstructural Aspects of Localized Plastic Flow. Solid State Phenomena, 0, 243, 113-120.	0.3	0
21	Quantitative analysis of morphology of the fracture surface AlMg6 alloy with consecutive dynamic and gigacycle loading. AIP Conference Proceedings, 2015, , .	0.4	0
22	Numerical simulation and experimental investigation of strain localization in AlMg6 alloy under dynamic loading. AIP Conference Proceedings, 2015, , .	0.4	0
23	Numerical simulation of plastic strain localization and failure mode transition in metals under dynamic loading. Procedia Structural Integrity, 2016, 2, 1951-1958.	0.8	0
24	Structural and mechanical aspects of the formation of adiabatic shear bands under dynamic loading and during target perforation. AIP Conference Proceedings, 2016, , .	0.4	0
25	Numerical and experimental studies of strength characteristics of aluminum alloys under penetration of a barrier. AIP Conference Proceedings, 2016, , .	0.4	0
26	Multifractal analysis of morphology of AlMg6 alloy fracture surface under consecutive dynamic and gigacycle loading. AIP Conference Proceedings, 2017, , .	0.4	0
27	Localized instability of plastic deformation at dynamic loading caused by nonequilibrium transitions in defect ensembles. AIP Conference Proceedings, 2017, , .	0.4	0
28	The study of mechanical and microstructural aspects of localized shear fracture in metals under dynamic loading. Procedia Structural Integrity, 2019, 18, 262-267.	0.8	0
29	Investigation of the influence of consecutive dynamic and gigacycle fatigue loads on the lifetime of VT6 titanium alloy. AIP Conference Proceedings, 2019, , .	0.4	0
30	Investigation of mechanical and microstructural aspects of plastic shear localization at different types of dynamic loading. AIP Conference Proceedings, 2019, , .	0.4	0
31	Spall Fracture in ARMCO Iron: Structure Evolution and Spall Strength. , 2009, , 219-225.		0
32	Self-organization behavior of defective structures as a mechanism of plastic strain localization under dynamic loading. AIP Conference Proceedings, 2020, , .	0.4	0
33	The effect of intermetallic inclusions on the formation of subsurface cracks in the AlMg6 alloy under very high cycle fatigue. Letters on Materials, 2020, 10, 206-210.	0.7	0
34	Effect of self-organised behaviour of defective material structure on localization of plastic deformation and fracture under static and dynamic loads. AIP Conference Proceedings, 2022, , .	0.4	0