

Alexander S Smirnov

List of Publications by Year in descending order

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25
papers

147
citations

1684188

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1199594

12
g-index

25
all docs

25
docs citations

25
times ranked

165
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen isotope exchange in La_2NiO_4 . Physical Chemistry Chemical Physics, 2016, 18, 9102-9111.	2.8	66
2	Effect of silicon carbide particles on the mechanical and plastic properties of the AlMg6/10% SiC metal matrix composite. Journal of Composite Materials, 2018, 52, 3351-3363.	2.4	15
3	A Numerical Study of Plastic Strain Localization and Fracture in Al/SiC Metal Matrix Composite. Physical Mesomechanics, 2018, 21, 305-313.	1.9	11
4	Peculiarities of the Rheological Behavior for the Al-Mg-Sc-Zr Alloy Under High-Temperature Deformation. Journal of Materials Engineering and Performance, 2014, 23, 4271-4277.	2.5	10
5	MODELLING AND SIMULATION OF STRAIN RESISTANCE OF ALLOYS TAKING INTO ACCOUNT BARRIER EFFECTS. Diagnostics Resource and Mechanics of Materials and Structures, 0, , 61-72.	0.1	8
6	A fracture locus for a 50 volume-percent Al/SiC metal matrix composite at high temperature. International Journal of Material Forming, 2017, 10, 831-843.	2.0	6
7	Hierarchical modeling of deformation and damage of metal matrix composite under uniaxial loading conditions. IOP Conference Series: Materials Science and Engineering, 2017, 208, 012037.	0.6	5
8	A hierarchical modeling of stress-strain state of multiphase material subjected to uniaxial loading. AIP Conference Proceedings, 2016, , .	0.4	4
9	A New Experimental Method for Determining the Thickness of Thin Surface Layers of Intensive Plastic Deformation Using Electron Backscatter Diffraction Data. Symmetry, 2020, 12, 677.	2.2	4
10	Using the Instrumented Indentation Technique to Determine Damage in Sintered Metal Matrix Composites after High-Temperature Deformation. Applied Sciences (Switzerland), 2021, 11, 10590.	2.5	4
11	Peculiarities of the rheological behavior and structure formation of aluminum under deformation at near-solidus temperatures. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 563-571.	4.9	3
12	Study of the Resistance of Steels 18KhMFB And 18Kh3MFB to Hot Deformation. Metallurgist, 2016, 59, 1118-1121.	0.6	3
13	Specimen Preparation for Metal Matrix Composites with a High Volume Fraction of Reinforcing Particles for EBSD Analysis. Journal of Materials Engineering and Performance, 2016, 25, 2907-2913.	2.5	2
14	Determining AlMg6/10%SiCp representative elementary volume size by kinetic indentation. AIP Conference Proceedings, 2018, , .	0.4	2
15	Neural network modeling of the rheology of the AlMg6 alloy under the dispersoid barrier effect and the inhibition of dynamic relaxation processes. Diagnostics Resource and Mechanics of Materials and Structures, 2020, , 10-26.	0.1	2
16	Rheological behavior and the formation of the microstructure of a composite based on an Al-Zn-Mg-Cu alloy with a 10% SiC content. AIP Conference Proceedings, 2016, , .	0.4	1
17	A computational model of V95/SiCp (7075/SiCp) aluminum matrix composite applied to stress-strain state simulation under tensile, compressive and shear loading conditions. Diagnostics Resource and Mechanics of Materials and Structures, 2017, , 16-27.	0.1	1
18	Investigation of a thermal-stress state of a heated radiochemical apparatus. Russian Journal of Nondestructive Testing, 2008, 44, 322-329.	0.9	0

#	ARTICLE	IF	CITATIONS
19	Simulation of the rheological behavior of the O1570C alloy under high-temperature deformation. AIP Conference Proceedings, 2016, , .	0.4	0
20	The properties of the surface layer of the O1560 alloy after direct extrusion through a conical die with a very small angle. AIP Conference Proceedings, 2016, , .	0.4	0
21	Effect of hot plastic deformation on the structural state of a Al-10%SiC composite. AIP Conference Proceedings, 2017, , .	0.4	0
22	Modeling the stress-strain state of the V95/SiC aluminum alloy matrix composite under uniaxial loading. AIP Conference Proceedings, 2017, , .	0.4	0
23	Effect of strain rate on the formation of the microstructure of a 1950/10% SiC metal matrix composite under high temperature. AIP Conference Proceedings, 2017, , .	0.4	0
24	Simulating the deformation process of AlMg6/10%SiCp composite representative volume under macroscopic uniaxial strain. AIP Conference Proceedings, 2018, , .	0.4	0
25	A FRACTURE LOCUS FOR A 2 WT% ALUMINUM-GRAPHENE METAL MATRIX COMPOSITE AT 300 Â°C. PNRPU Mechanics Bulletin, 2018, , .	0.4	0