

# Alexander S Smirnov

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5184668/publications.pdf>

Version: 2024-02-01

25  
papers

147  
citations

1684188

5  
h-index

1199594

12  
g-index

25  
all docs

25  
docs citations

25  
times ranked

165  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Using the Instrumented Indentation Technique to Determine Damage in Sintered Metal Matrix Composites after High-Temperature Deformation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10590.   | 2.5 | 4         |
| 2  | A New Experimental Method for Determining the Thickness of Thin Surface Layers of Intensive Plastic Deformation Using Electron Backscatter Diffraction Data. <i>Symmetry</i> , 2020, 12, 677.   | 2.2 | 4         |
| 3  | Neural network modeling of the rheology of the AlMg6 alloy under the dispersoid barrier effect and the inhibition of dynamic relaxation processes. <i>Diagnostics Resource and Mechanics of Materials and Structures</i> , 2020, , 10-26.                         | 0.1 | 2         |
| 4  | Simulating the deformation process of AlMg6/10%SiCp composite representative volume under macroscopic uniaxial strain. <i>AIP Conference Proceedings</i> , 2018, , .  | 0.4 | 0         |
| 5  | Determining AlMg6/10%SiCp representative elementary volume size by kinetic indentation. <i>AIP Conference Proceedings</i> , 2018, , .   | 0.4 | 2         |
| 6  | A Numerical Study of Plastic Strain Localization and Fracture in Al/SiC Metal Matrix Composite. <i>Physical Mesomechanics</i> , 2018, 21, 305-313.  | 1.9 | 11        |
| 7  | Effect of silicon carbide particles on the mechanical and plastic properties of the AlMg6/10% SiC metal matrix composite. <i>Journal of Composite Materials</i> , 2018, 52, 3351-3363.  | 2.4 | 15        |
| 8  | A FRACTURE LOCUS FOR A 2 WT% ALUMINUM-GRAPHENE METAL MATRIX COMPOSITE AT 300 Å°C. <i>PNRPU Mechanics Bulletin</i> , 2018, , .   | 0.4 | 0         |
| 9  | A fracture locus for a 50 volume-percent Al/SiC metal matrix composite at high temperature. <i>International Journal of Material Forming</i> , 2017, 10, 831-843.   | 2.0 | 6         |
| 10 | Effect of hot plastic deformation on the structural state of a Al-10%SiC composite. <i>AIP Conference Proceedings</i> , 2017, , .   | 0.4 | 0         |
| 11 | Modeling the stress-strain state of the V95/SiC aluminum alloy matrix composite under uniaxial loading. <i>AIP Conference Proceedings</i> , 2017, , .   | 0.4 | 0         |
| 12 | Effect of strain rate on the formation of the microstructure of a 1950/10% SiC metal matrix composite under high temperature. <i>AIP Conference Proceedings</i> , 2017, , .   | 0.4 | 0         |
| 13 | Hierarchical modeling of deformation and damage of metal matrix composite under uniaxial loading conditions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 208, 012037.   | 0.6 | 5         |
| 14 | A computational model of V95/SiCp (7075/SiCp) aluminum matrix composite applied to stress-strain state simulation under tensile, compressive and shear loading conditions. <i>Diagnostics Resource and Mechanics of Materials and Structures</i> , 2017, , 16-27. | 0.1 | 1         |
| 15 | A hierarchial modeling of stress-strain state of multiphase material subjected to uniaxial loading. <i>AIP Conference Proceedings</i> , 2016, , .   | 0.4 | 4         |
| 16 | Peculiarities of the rheological behavior and structure formation of aluminum under deformation at near-solidus temperatures. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016, 23, 563-571.   | 4.9 | 3         |
| 17 | Study of the Resistance of Steels 18KhMFB And 18Kh3MFB to Hot Deformation. <i>Metallurgist</i> , 2016, 59, 1118-1121.   | 0.6 | 3         |
| 18 | Simulation of the rheological behavior of the O1570C alloy under high-temperature deformation. <i>AIP Conference Proceedings</i> , 2016, , .  | 0.4 | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | 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         |
| 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 | 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         |
| 22 | Oxygen isotope exchange in $\text{La}_2\text{NiO}_{4\pm\delta}$ . Physical Chemistry Chemical Physics, 2016, 18, 9102-9111.   | 2.8 | 66        |
| 23 | 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        |
| 24 | Investigation of a thermal-stress state of a heated radiochemical apparatus. Russian Journal of Nondestructive Testing, 2008, 44, 322-329.  | 0.9 | 0         |
| 25 | 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         |