

Aleksandr Zinoviev

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26

papers

352

citations

8

h-index

18

g-index

37

ext. papers

464

ext. citations

2.3

avg, IF

3.99

L-index

#	Paper	IF	Citations
26	Evolution of grain structure during laser additive manufacturing. Simulation by a cellular automata method. <i>Materials and Design</i> , 2016 , 106, 321-329	8.1	118
25	Three-dimensional modeling of the microstructure evolution during metal additive manufacturing. <i>Computational Materials Science</i> , 2018 , 141, 207-220	3.2	109
24	A computational study of the microstructural effect on the deformation and fracture of friction stir welded aluminum. <i>Computational Materials Science</i> , 2016 , 116, 2-10	3.2	20
23	The computational micromechanics of materials with porous ceramic coatings. <i>Meccanica</i> , 2016 , 51, 415-428	4.28	16
22	A solution to the problem of the mesh anisotropy in cellular automata simulations of grain growth. <i>Computational Materials Science</i> , 2015 , 108, 168-176	3.2	13
21	Strategy of computational predictions for mechanical behaviour of additively manufactured materials. <i>Materials Science and Technology</i> , 2018 , 34, 1591-1605	1.5	13
20	Micromechanical simulations of additively manufactured aluminum alloys. <i>Computers and Structures</i> , 2021 , 244, 106412	4.5	12
19	MICROSTRUCTURE-BASED SIMULATIONS OF QUASISTATIC DEFORMATION USING AN EXPLICIT DYNAMIC APPROACH. <i>Facta Universitatis, Series: Mechanical Engineering</i> , 2019 , 17, 243	3.2	10
18	Formation of Bulk Tensile Regions in Metal Matrix Composites and Coatings under Uniaxial and Multiaxial Compression. <i>Physical Mesomechanics</i> , 2020 , 23, 135-146	1.6	8
17	A mesomechanical analysis of the stress-strain localisation in friction stir welds of polycrystalline aluminium alloys. <i>Meccanica</i> , 2016 , 51, 319-328	2.1	6
16	Three-dimensional analysis of grain structure and texture of additively manufactured 316L austenitic stainless steel. <i>Additive Manufacturing</i> , 2020 , 36, 101521	6.1	6
15	Numerical Study of the Influence of Grain Size and Loading Conditions on the Deformation of a Polycrystalline Aluminum Alloy. <i>Journal of Applied Mathematics and Physics</i> , 2014 , 02, 425-430	0.3	4
14	Numerical simulation of deformation and fracture of a material with a polysilazane-based coating. <i>Physical Mesomechanics</i> , 2016 , 19, 430-440	1.6	3
13	On the numerical simulation of the microstructural evolution induced by laser additive manufacturing of steel products 2016 ,		2
12	Numerical analysis of the grain morphology and texture in 316L steel produced by selective laser melting 2019 ,		2
11	A Numerical Study of the Stress-Strain Behavior of Additively Manufactured Aluminum-Silicon Alloy at the Scale of Dendritic Structure. <i>Physical Mesomechanics</i> , 2021 , 24, 32-39	1.6	2
10	Modeling of 3D microstructures produced by additive manufacturing 2018 ,		2

9	Two dimensional cellular automata simulation of grain growth during solidification and recrystallization. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 71, 012073	0.4	1
8	Computational study of the mechanical behavior of steel produced by selective laser melting 2016 ,		1
7	Numerical simulation of deformation and fracture in a coated material using curvilinear regular meshes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 71, 012072	0.4	1
6	A mesomechanical analysis of the deformation and fracture in polycrystalline materials with ceramic porous coatings 2015 ,		1
5	Computational parametric study for plastic strain localization and fracture in a polycrystalline material with a porous ceramic coating. <i>Mechanics of Advanced Materials and Structures</i> ,1-14	1.8	1
4	The role of simulation in the industrialization of Additive Manufacturing. <i>Procedia Structural Integrity</i> , 2021 , 34, 247-252	1	0
3	The influence of material microstructural characteristics on the strength of porous or composite ceramic coatings. <i>International Journal of Solids and Structures</i> , 2021 , 111339	3.1	
2	A Micromechanical Model of Additively Manufactured Aluminum Alloys. <i>EPJ Web of Conferences</i> , 2019 , 221, 01016	0.3	
1	Computational analysis of deformation and fracture in composite materials and coatings. <i>EPJ Web of Conferences</i> , 2019 , 221, 01017	0.3	