

Olga Zinovieva

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.

37 papers	417 citations	10 h-index	20 g-index
56 ext. papers	567 ext. citations	2.6 avg, IF	4.12 L-index

#	Paper	IF	Citations
37	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
36	Three-dimensional modeling of the microstructure evolution during metal additive manufacturing. <i>Computational Materials Science</i> , 2018 , 141, 207-220	3.2	109
35	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
34	On the role of internal interfaces in the development of mesoscale surface roughness in loaded materials. <i>Physical Mesomechanics</i> , 2011 , 14, 159-166	1.6	19
33	The computational micromechanics of materials with porous ceramic coatings. <i>Meccanica</i> , 2016 , 51, 415-428	4.28	16
32	Mesoscopic surface folding in EK-181 steel polycrystals under uniaxial tension. <i>Physical Mesomechanics</i> , 2012 , 15, 94-103	1.6	14
31	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
30	Strategy of computational predictions for mechanical behaviour of additively manufactured materials. <i>Materials Science and Technology</i> , 2018 , 34, 1591-1605	1.5	13
29	A micromechanical analysis of deformation-induced surface roughening in surface-modified polycrystalline materials. <i>Meccanica</i> , 2016 , 51, 359-370	2.1	12
28	Micromechanical simulations of additively manufactured aluminum alloys. <i>Computers and Structures</i> , 2021 , 244, 106412	4.5	12
27	MICROSTRUCTURE-BASED SIMULATIONS OF QUASISTATIC DEFORMATION USING AN EXPLICIT DYNAMIC APPROACH. <i>Facta Universitatis, Series: Mechanical Engineering</i> , 2019 , 17, 243	3.2	10
26	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
25	Numerical study of the surface hardening effect on the deformation-induced roughening in titanium polycrystals. <i>Computational Materials Science</i> , 2016 , 116, 96-102	3.2	7
24	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
23	The effects of surface-layer grain size and texture on deformation-induced surface roughening in polycrystalline titanium hardened by ultrasonic impact treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 793, 139896	5.3	6
22	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
21	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

20	Effects of the grain shape and crystallographic texture on the grain-scale mechanical behavior of additively manufactured aluminum alloys. <i>Additive Manufacturing</i> , 2021 , 48, 102415	6.1	3
19	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
18	Effects of scanning pattern on the grain structure and elastic properties of additively manufactured 316L austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 832, 142447	5.3	2
17	On the numerical simulation of the microstructural evolution induced by laser additive manufacturing of steel products 2016 ,		2
16	Numerical analysis of the grain morphology and texture in 316L steel produced by selective laser melting 2019 ,		2
15	Modeling of 3D microstructures produced by additive manufacturing 2018 ,		2
14	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
13	Computational study of the mechanical behavior of steel produced by selective laser melting 2016 ,		1
12	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
11	A review of microstructure and mechanical properties of additively manufactured aluminum alloys 2020 ,		1
10	A microstructure-based mechanical model of deformation-induced surface roughening in polycrystalline Titanium at the mesoscale. <i>Mechanics of Advanced Materials and Structures</i> , 1-11	1.8	1
9	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
8	Effect of hatch distance on the microstructure of additively manufactured 316 L steel 2020 ,		1
7	On the definition of RVE size in simulations of mesoscale deformation-induced surface roughening in polycrystals. <i>Procedia Structural Integrity</i> , 2021 , 31, 64-69	1	1
6	The effect of texture sharpness on deformation-induced surface roughening in Titanium. <i>Procedia Structural Integrity</i> , 2022 , 35, 203-209	1	0
5	The relationship between mesoscale deformation-induced surface roughness, in-plane plastic strain and texture sharpness in an aluminum alloy. <i>Engineering Failure Analysis</i> , 2022 , 106377	3.2	0
4	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	
3	A Micromechanical Model of Additively Manufactured Aluminum Alloys. <i>EPJ Web of Conferences</i> , 2019 , 221, 01016	0.3	

- 2 Computational analysis of deformation and fracture in composite materials and coatings. *EPJ Web of Conferences*, **2019**, 221, 01017 0.3
- 1 Mechanical Aspects of Nonhomogeneous Deformation of Aluminum Single Crystals under Compression along [100] and [110] Directions. *Metals*, **2022**, 12, 397 2.3