Olga Zinovieva

List of Publications by Year in Descending Order

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	Effects of scanning pattern on the grain structure and elastic properties of additively manufactured 316L austenitic stainless steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 832, 142447	5.3	2
36	The effect of texture sharpness on deformation-induced surface roughening in □itanium. *Procedia Structural Integrity*, **2022**, 35, 203-209	1	0
35	Mechanical Aspects of Nonhomogeneous Deformation of Aluminum Single Crystals under Compression along [100] and [110] Directions. *Metals*, **2022**, 12, 397	2.3	
34	The relationship between mesoscale deformation-induced surface roughness, in-plane plastic strain and texture sharpness in an aluminum alloy. *Engineering Failure Analysis*, **2022**, 106377	3.2	0
33	The influence of material microstructural characteristics on the strength of porous or composite ceramic coatings. *International Journal of Solids and Structures*, **2021**, 111339	3.1	
32	Effects of the grain shape and crystallographic texture on the grain-scale mechanical behavior of additively manufactured aluminum alloys. *Additive Manufacturing*, **2021**, 48, 102415	6.1	3
31	Micromechanical simulations of additively manufactured aluminum alloys. *Computers and Structures*, **2021**, 244, 106412	4.5	12
30	On the definition of RVE size in simulations of mesoscale deformation-induced surface roughening in polycrystals. *Procedia Structural Integrity*, **2021**, 31, 64-69	1	1
29	Formation of Bulk Tensile Regions in Metal Matrix Composites and Coatings under Uniaxial and Multiaxial Compression. *Physical Mesomechanics*, **2020**, 23, 135-146	1.6	8
28	The effects of surface-layer grain size and texture on deformation-induced surface roughening in polycrystalline titanium hardened by ultrasonic impact treatment. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 793, 139896	5.3	6
27	A review of microstructure and mechanical properties of additively manufactured aluminum alloys **2020**,		1
26	Effect of hatch distance on the microstructure of additively manufactured 316 L steel **2020**,		1
25	Three-dimensional analysis of grain structure and texture of additively manufactured 316L austenitic stainless steel. *Additive Manufacturing*, **2020**, 36, 101521	6.1	6
24	MICROSTRUCTURE-BASED SIMULATIONS OF QUASISTATIC DEFORMATION USING AN EXPLICIT DYNAMIC APPROACH. *Facta Universitatis, Series: Mechanical Engineering*, **2019**, 17, 243	3.2	10
23	A Micromechanical Model of Additively Manufactured Aluminum Alloys. *EPJ Web of Conferences*, **2019**, 221, 01016	0.3	
22	Computational analysis of deformation and fracture in composite materials and coatings. *EPJ Web of Conferences*, **2019**, 221, 01017	0.3	
21	Numerical analysis of the grain morphology and texture in 316L steel produced by selective laser melting **2019**,		2

20	Three-dimensional modeling of the microstructure evolution during metal additive manufacturing. *Computational Materials Science*, **2018**, 141, 207-220	3.2	109
19	Strategy of computational predictions for mechanical behaviour of additively manufactured materials. *Materials Science and Technology*, **2018**, 34, 1591-1605	1.5	13
18	Modeling of 3D microstructures produced by additive manufacturing **2018**,		2
17	A micromechanical analysis of deformation-induced surface roughening in surface-modified polycrystalline materials. *Meccanica*, **2016**, 51, 359-370	2.1	12
16	The computational micromechanics of materials with porous ceramic coatings. *Meccanica*, **2016**, 51, 415-428	2.1	16
15	Numerical study of the surface hardening effect on the deformation-induced roughening in titanium polycrystals. *Computational Materials Science*, **2016**, 116, 96-102	3.2	7
14	A mesomechanical analysis of the stress–strain localisation in friction stir welds of polycrystalline aluminium alloys. *Meccanica*, **2016**, 51, 319-328	2.1	6
13	Computational study of the mechanical behavior of steel produced by selective laser melting **2016**,		1
12	Evolution of grain structure during laser additive manufacturing. Simulation by a cellular automata method. *Materials and Design*, **2016**, 106, 321-329	8.1	118
11	A computational study of the microstructural effect on the deformation and fracture of friction stir welded aluminum. *Computational Materials Science*, **2016**, 116, 2-10	3.2	20
10	Numerical simulation of deformation and fracture of a material with a polysilazane-based coating. *Physical Mesomechanics*, **2016**, 19, 430-440	1.6	3
9	On the numerical simulation of the microstructural evolution induced by laser additive manufacturing of steel products **2016**,		2
8	A solution to the problem of the mesh anisotropy in cellular automata simulations of grain growth. *Computational Materials Science*, **2015**, 108, 168-176	3.2	13
7	Two dimensional cellular automata simulation of grain growth during solidification and recrystallization. *IOP Conference Series: Materials Science and Engineering*, **2015**, 71, 012073	0.4	1
6	Numerical simulation of deformation and fracture in a coated material using curvilinear regular meshes. *IOP Conference Series: Materials Science and Engineering*, **2015**, 71, 012072	0.4	1
5	Numerical Study of the Influence of Grain Size and Loading Conditions on the Deformation of a Polycrystalline Aluminum Alloy. *Journal of Applied Mathematics and Physics*, **2014**, 02, 425-430	0.3	4
4	Mesoscopic surface folding in EK-181 steel polycrystals under uniaxial tension. *Physical Mesomechanics*, **2012**, 15, 94-103	1.6	14
3	On the role of internal interfaces in the development of mesoscale surface roughness in loaded materials. *Physical Mesomechanics*, **2011**, 14, 159-166	1.6	19

2	A microstructure-based mechanical model of deformation-induced surface roughening in polycrystalline □itanium at the mesoscale. *Mechanics of Advanced Materials and Structures*,1-11	1.8	1
1	Computational parametric study for plastic strain localization and fracture in a polycrystalline material with a porous ceramic coating. *Mechanics of Advanced Materials and Structures*,1-14	1.8	1