

Margarita G Isaenkova

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.

86
papers

192
citations

7
h-index

11
g-index

108
ext. papers

234
ext. citations

0.5
avg, IF

2.49
L-index

#	Paper	IF	Citations
86	Precipitation of reoriented hydrides and textural change of zirconium grains during delayed hydride cracking of Zr-2.5%Nb pressure tube. <i>Journal of Nuclear Materials</i> , 2001 , 297, 292-302	3.3	30
85	Use of Hafnium in Control Elements of Nuclear Reactors and Power Units. <i>Metal Science and Heat Treatment</i> , 2003 , 45, 300-303	0.6	13
84	Features of Texture and Structure Development in Zirconium under Equal Channel Angular Pressing. <i>Materials Science Forum</i> , 2006 , 503-504, 859-864	0.4	11
83	Regularities of recrystallization of rolled single crystals and polycrystals of zirconium and alloy Zr-1% Nb. <i>Physics of Metals and Metallography</i> , 2014 , 115, 756-764	1.2	9
82	The Fullest Description of the Structure of Textured Metal Materials with Generalized Pole Figures: the Example of Rolled Zr Alloys. <i>Materials Science Forum</i> , 2001 , 378-381, 180-185	0.4	9
81	Texture formation in the surface layer of VT6 alloy targets irradiated by intense pulsed electron beams. <i>Inorganic Materials: Applied Research</i> , 2017 , 8, 387-391	0.6	7
80	Formation of Texture and Structure in Rods of Copper and Titanium under Equal-Channel Angular Pressing. <i>Materials Science Forum</i> , 2006 , 503-504, 853-858	0.4	7
79	Determination of Grain Size for Different Texture Components by Statistical Fluctuations of Intensity, Registered in the Course of Texture Measurement. <i>Solid State Phenomena</i> , 2010 , 160, 135-140	0.4	6
78	Formation of Residual Stresses in the Surface Layers of Titanium Alloy Targets Irradiated with High-Current Pulsed Electron Beams. <i>Inorganic Materials: Applied Research</i> , 2019 , 10, 529-531	0.6	4
77	Features of nanostructure and functional properties formation in Ti-Ni shape memory alloys subjected to quasi-continuous equal channel angular pressing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 503, 012024	0.4	4
76	Optimization of the procedure for determining integral texture parameters of products from zirconium-based alloys using the orientation distribution function. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 130, 012056	0.4	4
75	Finite element simulation of microindentation. <i>Russian Metallurgy (Metally)</i> , 2017 , 2017, 390-396	0.5	4
74	Mechanisms of the texture influence on the corrosion behavior of Zr-alloy cladding tubes. <i>Inorganic Materials: Applied Research</i> , 2015 , 6, 259-266	0.6	4
73	The size effects in hardness of polycrystalline niobium. <i>Technical Physics Letters</i> , 2010 , 36, 369-370	0.7	4
72	Texture changes in tubes made of Zr-2.5% Nb upon recrystallization. <i>Soviet Atomic Energy</i> , 1989 , 67, 811-816		4
71	Anisotropy of the mechanical properties of austenitic steel products obtained by selective laser melting. <i>CIS Iron and Steel Review</i> , 2019 , 64-68	2.4	4
70	Three Laws of Substructure Anisotropy of Textured Metal Materials, Revealed by X-Ray Method of Generalized Pole Figures. <i>Ceramic Transactions</i> , 189-195	0.1	4

69	Nonuniformity of the Crystallographic Texture and the Mechanical Properties of the Austenitic Steel 316L Plates Formed by Selective Laser Melting of a Powder. <i>Russian Metallurgy (Metally)</i> , 2019 , 2019, 42-47	0.5	3
68	Modification of the structural-phase state of ferritic-martensitic steels by pulsed gas plasma flows. <i>Inorganic Materials: Applied Research</i> , 2013 , 4, 376-384	0.6	3
67	The Distribution of Elastic Deformation in Textured Materials as Revealed by Peak Position Pole Figures. <i>Materials Science Forum</i> , 1998 , 273-275, 655-666	0.4	3
66	Texture changes in Zirconium on transverse rolling. <i>Soviet Atomic Energy</i> , 1987 , 62, 204-207		3
65	Formation of crystallographic texture in samples with different geometry from VT1-0 alloy, obtained by selective laser melting powder method. <i>Tsvetnye Metally</i> , 2018 , 69-74	2.1	3
64	Effect of Layer-by-Layer Texture Inhomogeneity on the Stress Corrosion of Gas Steel Tubes. <i>Materials Science Forum</i> , 2016 , 879, 1025-1030	0.4	3
63	Spark-Plasma Sintering of Al ₂ O ₃ /Graphene Nanocomposite. <i>Inorganic Materials: Applied Research</i> , 2018 , 9, 498-503	0.6	2
62	Effect of Synthesis Conditions on the Structure and Phase Composition of Magnesium Diboride. <i>Inorganic Materials: Applied Research</i> , 2019 , 10, 162-167	0.6	2
61	Crystal plasticity simulation of Zirconium tube rolling using multi-grain representative volume element 2017 ,		2
60	Recrystallization of BCC Metals: Distribution of Strain Hardening and Texture Formation. <i>Materials Science Forum</i> , 2013 , 753, 534-537	0.4	2
59	Recrystallization of Cold-Rolled Zr Single Crystals. <i>Materials Science Forum</i> , 2013 , 753, 275-278	0.4	2
58	Analysis of mechanisms of plastic deformation of aluminum-based alloys for different temperature/velocity modes. <i>Doklady Physics</i> , 2010 , 55, 64-67	0.8	2
57	Comparative Possibilities of Different X-Ray Methods by Study of SPD Metal Materials. <i>Materials Science Forum</i> , 2008 , 584-586, 197-202	0.4	2
56	Mechanisms of plastic deformation of zirconium-based alloys upon uniaxial compression under different temperature-rate conditions. <i>Physics of Metals and Metallography</i> , 2006 , 102, 637-645	1.2	2
55	Distributions of Domain Size, Lattice Distortion and Dislocation Density in Tubes of Zr-Based Alloys Studied by a Method Combining X-Ray Line Profile Analysis with Texture Measurements. <i>Materials Science Forum</i> , 2004 , 443-444, 255-258	0.4	2
54	Distribution of Dislocation Density in Tubes from Zr-Based Alloys by X-Ray Data. <i>Solid State Phenomena</i> , 2005 , 105, 89-94	0.4	2
53	Distinctive features of the change in the rolling texture of zirconium during recrystallization. <i>Soviet Atomic Energy</i> , 1988 , 65, 582-586		2
52	Regularities of Thermal Expansion of Cladding Tubes and Rods Made of E110opt Alloy within the Temperature Range of 273-473 K (20-200°C). <i>Inorganic Materials: Applied Research</i> , 2021 , 12, 820-830	0.6	2

51	The Effect of High-Doze Neutron Irradiation on Texture and Substructure Condition of Cladding Tubes from Zr-Based Alloys. <i>Materials Science Forum</i> , 2016 , 879, 1483-1488	0.4	2
50	Regularities of Formation of Lattice Structures Fabricated by Selective Laser Melting of Powdered 03Kh16N15M3 Steel. <i>Inorganic Materials: Applied Research</i> , 2020 , 11, 692-698	0.6	1
49	Formation of crystallographic texture in titanium nickelide single crystals during rolling. <i>Russian Metallurgy (Metally)</i> , 2013 , 2013, 300-303	0.5	1
48	On Morphological and Microstructural Changes in Uranium Dioxide Powder during Binder-Free Hot Pressing. <i>Defect and Diffusion Forum</i> , 2017 , 375, 114-122	0.7	1
47	The Role of Residual Elastic Stress in Shrinkage of Cold-Pressed and Sintered Fuel Tablets. <i>Advanced Materials Research</i> , 2014 , 996, 701-706	0.5	1
46	Texture versus Residual Deformation Effects in Metal Materials: Principles of Experimental Approach and General Regularities. <i>Solid State Phenomena</i> , 2010 , 160, 31-38	0.4	1
45	Texture Evidences of Interaction between Plastic Deformation and Phase Transformations in Zr-Based Alloys. <i>Materials Science Forum</i> , 2011 , 702-703, 283-286	0.4	1
44	Features of the Structure Development and the Deformation Process in Zr-Based Alloys under Radial Forging. <i>Materials Science Forum</i> , 2008 , 584-586, 338-342	0.4	1
43	New Principles of the Substructure Development in Metal Materials under Plastic Deformation, Revealed by Advanced X-Ray Methods. <i>Materials Science Forum</i> , 2004 , 443-444, 259-262	0.4	1
42	Texture Formation and Distribution of Residual Microstrains in Rolled Ti-48%Ni-2%Fe Single Crystals with Shape Memory Properties. <i>Materials Science Forum</i> , 2002 , 408-412, 1145-1150	0.4	1
41	Textural nonuniformity in sheets of Zr-2.5% Nb alloy. <i>Soviet Atomic Energy</i> , 1992 , 72, 183-187		1
40	Mechanism of superplasticity in N-1 zirconium alloy. <i>Soviet Atomic Energy</i> , 1987 , 63, 655-658		1
39	Influence of texture on plastic tensile strain of rolled Zr-1% Nb alloy. <i>Soviet Atomic Energy</i> , 1982 , 52, 299-303		1
38	Effect of the Crystallographic Texture in the β Phase on the Anisotropy of the Properties of Pseudo- β and (β + γ) Titanium Alloy Sheets. <i>Russian Metallurgy (Metally)</i> , 2021 , 2021, 430-436	0.5	1
37	Superelasticity of Ti-Nb-Zr Alloys and their Medical Application. <i>Materials Science Forum</i> , 2016 , 879, 2561-2566	0.5	1
36	Effect of Layer-by-Layer Texture Inhomogeneity on the Mechanical Properties of Hot-Rolled Steel Sheets. <i>Russian Metallurgy (Metally)</i> , 2018 , 2018, 1027-1034	0.5	1
35	Texture Aspects of Delayed Hydride Cracking in Products from Zr-Based Alloys. <i>Ceramic Transactions</i> , 539-546	0.1	1
34	Non-Uniform Strain Hardening of Crystallites within Different Regions of Texture Maxima: Evidences and Mechanisms. <i>Materials Science Forum</i> , 2011 , 702-703, 681-684	0.4	0

33	Distribution of Residual Microstresses in Rolled Textured Metal Materials. <i>Materials Science Forum</i> , 2000 , 347-349, 291-296	0.4	o
32	Effect of the Stressed State on the Phase Transformations in Zirconium-Based Alloys. <i>Russian Metallurgy (Metally)</i> , 2022 , 2022, 250-260	0.5	o
31	Recrystallization of cladding tubes from Zr-based alloys for nuclear reactors. <i>Journal of Physics: Conference Series</i> , 2019 , 1270, 012041	0.3	
30	Simulation of the Stamping of Spacing Grid Cells Made of Thin-Walled Zirconium Tubes. <i>Russian Metallurgy (Metally)</i> , 2019 , 2019, 415-420	0.5	
29	Thermo-mechanical finite element modeling of shape memory materials—microindentation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 130, 012054	0.4	
28	Distribution of Residual Deformation Effects in Shell Tubes from Ferritic-Martensitic Steels. <i>Advanced Materials Research</i> , 2014 , 996, 124-127	0.5	
27	Consolidation of Transparent ALON by Spark Plasma Sintering Methods. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 218, 012015	0.4	
26	Influence of Interlayer Macrostress on Oxidation of Shell Tubes from Zr-Based Alloys. <i>Advanced Materials Research</i> , 2014 , 996, 902-905	0.5	
25	Twinning in Ti-48%Ni-2%Fe Single Crystals under Rolling. <i>Materials Science Forum</i> , 2013 , 738-739, 118-122, 4	0.4	
24	Distribution of Residual Elastic Microstress in Rolled Ti-Ni Single Crystals. <i>Materials Science Forum</i> , 2013 , 738-739, 92-96	0.4	
23	Evidence of Bulk Nanostructuring in Zr-Based Alloys under Deformation at Temperatures of β - β' Phase Transformations. <i>Materials Science Forum</i> , 2010 , 667-669, 629-634	0.4	
22	Texture Development in Zr-Based Alloys by High-Temperature Forging as Indicator of Interaction between Plastic Deformation and β - β' Phase Transform Actions. <i>Solid State Phenomena</i> , 2010 , 160, 123-128, 4	0.4	
21	Variants of Texture Formation by Rolling of Ti-Ni Single Crystals with Shape Memory Properties. <i>Materials Science Forum</i> , 2011 , 702-703, 900-903	0.4	
20	Texture Formation in β Zr of Zr-1%Nb Alloy under Radial Forging. <i>Materials Science Forum</i> , 2011 , 702-703, 842-845	0.4	
19	Estimation of Input to Plastic Deformation of Non-Crystallographic Intergranular Slip. <i>Materials Science Forum</i> , 2012 , 735, 49-54	0.4	
18	Features of nanocrystallization in amorphous Ni ₄₄ Fe ₂₉ Co ₁₅ B ₁₀ Si ₂ ribbons under annealing. <i>Inorganic Materials: Applied Research</i> , 2010 , 1, 1-8	0.6	
17	Regular Substructure Inhomogeneity of Textured Materials by the Example of Rolled Ti-Ni Single Crystals. <i>Solid State Phenomena</i> , 2005 , 105, 207-212	0.4	
16	General Newly-Discovered Regularities of Structure Inhomogeneity in Textured Metal Materials. <i>Materials Science Forum</i> , 2001 , 378-381, 174-179	0.4	

- 15 Adaptation of the Warren Method to Determination of the Microstrain Distribution depending on Grain Orientation in Tubes of Zr-Based Alloys for Nuclear Industry. *Materials Science Forum*, **2002**, 404-407, 817-822 0.4
- 14 Textural changes at the tip of a moving crack during fracture of sheet Zr-1% Nb alloy. *Atomic Energy*, **1992**, 73, 642-648 0.4
- 13 Structure inhomogeneity of rolled Zirconium. *Atomic Energy*, **1992**, 73, 716-722 0.4
- 12 Homogeneity in zirconium fuel-pin cladding. *Soviet Atomic Energy*, **1988**, 64, 245-248
- 11 Inhomogeneous Distribution of Dislocation Density as Manifestation of Multiscale Structure in Tubes from Zr - Based Alloys. *Materials Research Society Symposia Proceedings*, **2003**, 779, 5261
- 10 Mesostructure of Textured Metal Materials: Experimental Study and New-Discovered Regularities. *Materials Research Society Symposia Proceedings*, **2003**, 779, 6111
- 9 Study of substructural heterogeneity of textured materials by the X-ray method of generalized direct pole figures. *Zavodskaya Laboratoriya Diagnostika Materialov*, **2020**, 86, 22-30 0.3
- 8 Separate Construction of Recrystallization Diagrams for Grains of Different Texture Components **2016**, 51-56
- 7 Changes of Basal Normal Orientation During Recrystallization of Sheets and Tubes from Zr-Based Alloys **2016**, 293-298
- 6 Separate Construction of Recrystallization Diagrams for Grains of Different Texture Components 51-56
- 5 Influence of substructure inhomogeneity on the anisotropy of physical properties of textured materials. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1121, 012035 0.4
- 4 Determination of mechanical properties from depth-sensing indentation data and results of finite element modeling. *IOP Conference Series: Materials Science and Engineering*, **2016**, 130, 012053 0.4
- 3 Effect of layerwise structural inhomogeneity on stress- corrosion cracking of steel tubes. *IOP Conference Series: Materials Science and Engineering*, **2016**, 130, 012009 0.4
- 2 The Chemical and Mineral Composition of Particles Precipitated from a PlasmaDust Layer on the Porthole of the Descend Space Vehicles during The Passage of the Earth's Atmosphere. *Geochemistry International*, **2021**, 59, 107-112 0.8
- 1 Regularities of Crystallographic Texture Formation in Products Obtained by Selective Laser Powder Melting. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1121, 012048 0.4