

# Elena Popova

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

440  
citations

759190

12  
h-index

794568

19  
g-index

29  
all docs

29  
docs citations

29  
times ranked

255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of the degree of deformation on the structure and thermal stability of nanocrystalline niobium produced by high-pressure torsion. <i>Physics of Metals and Metallography</i> , 2007, 103, 407-413.	1.0	47
2	Thermal stability of nanocrystalline Nb produced by severe plastic deformation. <i>Physics of Metals and Metallography</i> , 2006, 101, 52-57.	1.0	43
3	Thermal stability of nanocrystalline structure in niobium processed by high pressure torsion at cryogenic temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1491-1496.	5.6	43
4	Nanostructuring Nb by various techniques of severe plastic deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 539, 22-29.	5.6	43
5	The Nb <sub>3</sub> Sn layers formation at diffusion annealing of Ti-doped multifilamentary Nb/Cu–Sn composites. <i>Cryogenics</i> , 2014, 63, 63-68.	1.7	39
6	Effect of deformation and annealing on texture parameters of composite Cu–Nb wire. <i>Scripta Materialia</i> , 2004, 51, 727-731.	5.2	31
7	Nanostructuring of Nb by high-pressure torsion in liquid nitrogen and the thermal stability of the structure obtained. <i>Physics of Metals and Metallography</i> , 2012, 113, 295-301.	1.0	31
8	Thermal stability of nickel structure obtained by high-pressure torsion in liquid nitrogen. <i>Physics of Metals and Metallography</i> , 2014, 115, 682-691.	1.0	26
9	Effect of annealing and doping with Zr on the structure and properties of in situ Cu–Nb composite wire. <i>Scripta Materialia</i> , 2002, 46, 193-198.	5.2	18
10	Evolution of Ni structure at dynamic channel-angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 585, 281-291.	5.6	18
11	Evolution of the nanocrystalline structure of Nb <sub>3</sub> Sn superconducting layers upon two-stage annealing of Nb/Cu-Sn composites alloyed with titanium. <i>Physics of Metals and Metallography</i> , 2012, 113, 391-405.	1.0	16
12	Effect of Diffusion Annealing and Design of Internal Tin Wires on the Structure and Morphology of Superconducting Nb <sub>3</sub> Sn Layers. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-6.	1.7	12
13	The experimental investigation of copper for superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2001, 354, 371-374.	1.2	10
14	Structure of a titanium-alloyed high-tin bronze obtained by the Osprey method. <i>Physics of Metals and Metallography</i> , 2010, 110, 162-174.	1.0	8
15	Influence of diffusion annealing on residual resistivity of Nb <sub>3</sub> Sn-based chromium-plated strands obtained by a bronze process. <i>Physics of Metals and Metallography</i> , 2012, 113, 957-962.	1.0	8
16	Solid-State Diffusion Formation of Nanocrystalline Nb <sub>3</sub> Sn Layers at Two-Staged Annealing of Multifilamentary Nb/Cu-Sn Wires. <i>Journal of Nano Research</i> , 2012, 16, 69-75.	0.8	7
17	Effect of annealing regimes on the structure of Nb <sub>3</sub> Sn superconducting layers in composites with internal tin sources. <i>Physics of Metals and Metallography</i> , 2016, 117, 1028-1037.	1.0	6
18	Effect of alloying on the structure of bronze with enhanced tin content. <i>Physics of Metals and Metallography</i> , 2007, 103, 160-173.	1.0	4

#	ARTICLE	IF	CITATIONS
19	The Structure of Nb Obtained by Severe Plastic Deformation and its Thermal Stability. Materials Science Forum, 0, 667-669, 409-414.	0.3	4
20	Effect of Multifilamentary Nb/Cu-Sn Wire Diameter on the Nb <sub>3</sub> Sn Diffusion Layers Structure. Defect and Diffusion Forum, 0, 312-315, 289-294.	0.4	4
21	Morphology and Structure of Diffusion Layers in Nb <sub>3</sub> Sn-Based Superconductors of Different Geometry. , 0, 5, 199-225.		4
22	Effect of Interfaces and Cr Diffusion on Stabilizing Cu Conductivity in Nb <sub>3</sub> Sn-Strands. Defect and Diffusion Forum, 0, 334-335, 241-246.	0.4	3
23	Specific features of the formation of Nb <sub>3</sub> Sn superconducting layers in multifilamentary composites with ring Nb filaments. Physics of Metals and Metallography, 2015, 116, 235-241.	1.0	3
24	Effect of Sn Concentration in Bronze Matrix on the Pre-Reaction Formation of Nb <sub>3</sub> Sn Layers in Bronze-Processed Superconducting Strands of Different Design. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	3
25	Effect of Diameter of Nb <sub>3</sub> Sn-Based Internal-Tin Wires on the Structure of Superconducting Layers. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	3
26	Studying nanocrystalline superconducting Nb <sub>3</sub> Sn layers in Nb/Cu-Sn composites of various design using NMR and magnetic susceptibility methods. Physics of Metals and Metallography, 2007, 104, 59-66.	1.0	2
27	Effect of Annealing on Nanocrystalline Structure of Nb <sub>3</sub> Sn Diffusion Layers in Composites with Internal Tin Sources. Defect and Diffusion Forum, 2010, 297-301, 126-131.	0.4	2
28	Mass Diffusion in Process Metallurgy. , 2015, 4, 139-157.		1
29	Mössbauer Investigation of Sn Diffusion and Segregation in Grain Boundaries of Polycrystalline Nb. Journal of Phase Equilibria and Diffusion, 2005, 26, 510-515.	1.4	1