Elena Popova

List of Publications by Citations

28 papers	357 citations	11 h-index	18 g-index
29 ext. papers	397 ext. citations	1.9 avg, IF	3.03 L-index

#	Paper	IF	Citations
28	Thermal stability of nanocrystalline Nb produced by severe plastic deformation. *Physics of Metals and Metallography*, **2006**, 101, 52-57	1.2	39
27	Thermal stability of nanocrystalline structure in niobium processed by high pressure torsion at cryogenic temperatures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 1491-1496	5.3	36
26	Effect of the degree of deformation on the structure and thermal stability of nanocrystalline niobium produced by high-pressure torsion. *Physics of Metals and Metallography*, **2007**, 103, 407-413	1.2	36
25	Nanostructuring Nb by various techniques of severe plastic deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 539, 22-29	5.3	32
24	The Nb3Sn layers formation at diffusion annealing of Ti-doped multifilamentary Nb/Cu□Sn composites. *Cryogenics*, **2014**, 63, 63-68	1.8	27
23	Nanostructurization of Nb by high-pressure torsion in liquid nitrogen and the thermal stability of the structure obtained. *Physics of Metals and Metallography*, **2012**, 113, 295-301	1.2	26
22	Effect of deformation and annealing on texture parameters of composite Cu□Nb wire. *Scripta Materialia*, **2004**, 51, 727-731	5.6	26
21	Effect of annealing and doping with Zr on the structure and properties of in situ Cu□Nb composite wire. *Scripta Materialia*, **2002**, 46, 193-198	5.6	17
20	Thermal stability of nickel structure obtained by high-pressure torsion in liquid nitrogen. *Physics of Metals and Metallography*, **2014**, 115, 682-691	1.2	16
19	Evolution of Ni structure at dynamic channel-angular pressing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 585, 281-291	5.3	16
18	Evolution of the nanocrystalline structure of Nb3Sn superconducting layers upon two-stage annealing of Nb/Cu-Sn composites alloyed with titanium. *Physics of Metals and Metallography*, **2012**, 113, 391-405	1.2	15
17	The experimental investigation of copper for superconductors. *Physica C: Superconductivity and Its Applications*, **2001**, 354, 371-374	1.3	9
16	Effect of Diffusion Annealing and Design of Internal Tin Wires on the Structure and Morphology of Superconducting Nb3Sn Layers. *IEEE Transactions on Applied Superconductivity*, **2016**, 1-1	1.8	8
15	Influence of diffusion annealing on residual resistivity of Nb3Sn-based chromium-plated strands obtained by a bronze process. *Physics of Metals and Metallography*, **2012**, 113, 957-962	1.2	8
14	Effect of annealing regimes on the structure of Nb3Sn superconducting layers in composites with internal tin sources. *Physics of Metals and Metallography*, **2016**, 117, 1028-1037	1.2	6
13	Solid-State Diffusion Formation of Nanocrystalline Nb3Sn Layers at Two-Staged Annealing of Multifilamentary Nb/Cu-Sn Wires. *Journal of Nano Research*, **2012**, 16, 69-75	1	6
12	Structure of a titanium-alloyed high-tin bronze obtained by the Osprey method. *Physics of Metals and Metallography*, **2010**, 110, 162-174	1.2	6

List of Publications

11	Effect of Multifilamentary Nb/Cu-Sn Wire Diameter on the Nb3Sn Diffusion Layers Structure. *Defect and Diffusion Forum*, **2011**, 312-315, 289-294	0.7	4
10	Specific features of the formation of Nb3Sn superconducting layers in multifilamentary composites with ring Nb filaments. *Physics of Metals and Metallography*, **2015**, 116, 235-241	1.2	3
9	Effect of Sn Concentration in Bronze Matrix on the Pre-Reaction Formation of Nb3Sn Layers in Bronze-Processed Superconducting Strands of Different Design. *IEEE Transactions on Applied Superconductivity*, **2018**, 28, 1-5	1.8	3
8	Morphology and Structure of Diffusion Layers in Nb3Sn-Based Superconductors of Different Geometry **2015**, 5, 199-225		3
7	Effect of Interfaces and Cr Diffusion on Stabilizing Cu Conductivity in Nb3Sn-Strands. *Defect and Diffusion Forum*, **2013**, 334-335, 241-246	0.7	3
6	The Structure of Nb Obtained by Severe Plastic Deformation and its Thermal Stability. *Materials Science Forum*, **2010**, 667-669, 409-414	0.4	3
5	Effect of alloying on the structure of bronze with enhanced tin content. *Physics of Metals and Metallography*, **2007**, 103, 160-173	1.2	3
4	Effect of Annealing on Nanocrystalline Structure of Nb3Sn Diffusion Layers in Composites with Internal Tin Sources. *Defect and Diffusion Forum*, **2010**, 297-301, 126-131	0.7	2
3	Studying nanocrystalline superconducting Nb3Sn layers in Nb/Cu-Sn composites of various design using NMR and magnetic susceptibility methods. *Physics of Metals and Metallography*, **2007**, 104, 59-66	1.2	2
2	Mass Diffusion in Process Metallurgy **2015**, 4, 139-157		1
1	Effect of Diameter of Nb3Sn-Based Internal-Tin Wires on the Structure of Superconducting Layers. *IEEE Transactions on Applied Superconductivity*, **2022**, 32, 1-5	1.8	0