

# Elena Popova

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4700618/elena-popova-publications-by-year.pdf>

**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Effect of Diameter of Nb <sub>3</sub> Sn-Based Internal-Tin Wires on the Structure of Superconducting Layers. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2022</b> , 32, 1-5	1.8	0
27	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. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5	1.8	3
26	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> , <b>2016</b> , 117, 1028-1037	1.2	6
25	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> , <b>2016</b> , 1-1	1.8	8
24	Specific features of the formation of Nb <sub>3</sub> Sn superconducting layers in multifilamentary composites with ring Nb filaments. <i>Physics of Metals and Metallography</i> , <b>2015</b> , 116, 235-241	1.2	3
23	Morphology and Structure of Diffusion Layers in Nb <sub>3</sub> Sn-Based Superconductors of Different Geometry <b>2015</b> , 5, 199-225		3
22	Mass Diffusion in Process Metallurgy <b>2015</b> , 4, 139-157		1
21	Thermal stability of nickel structure obtained by high-pressure torsion in liquid nitrogen. <i>Physics of Metals and Metallography</i> , <b>2014</b> , 115, 682-691	1.2	16
20	The Nb <sub>3</sub> Sn layers formation at diffusion annealing of Ti-doped multifilamentary Nb/Cu <sub>3</sub> Sn composites. <i>Cryogenics</i> , <b>2014</b> , 63, 63-68	1.8	27
19	Evolution of Ni structure at dynamic channel-angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 585, 281-291	5.3	16
18	Effect of Interfaces and Cr Diffusion on Stabilizing Cu Conductivity in Nb <sub>3</sub> Sn-Strands. <i>Defect and Diffusion Forum</i> , <b>2013</b> , 334-335, 241-246	0.7	3
17	Nanostructuring Nb by various techniques of severe plastic deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 539, 22-29	5.3	32
16	Nanostructurization of Nb by high-pressure torsion in liquid nitrogen and the thermal stability of the structure obtained. <i>Physics of Metals and Metallography</i> , <b>2012</b> , 113, 295-301	1.2	26
15	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> , <b>2012</b> , 113, 391-405	1.2	15
14	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> , <b>2012</b> , 113, 957-962	1.2	8
13	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> , <b>2012</b> , 16, 69-75	1	6
12	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> , <b>2011</b> , 528, 1491-1496	5.3	36

## LIST OF PUBLICATIONS

11	Effect of Multifilamentary Nb/Cu-Sn Wire Diameter on the Nb <sub>3</sub> Sn Diffusion Layers Structure. <i>Defect and Diffusion Forum</i> , <b>2011</b> , 312-315, 289-294	0.7	4
10	The Structure of Nb Obtained by Severe Plastic Deformation and its Thermal Stability. <i>Materials Science Forum</i> , <b>2010</b> , 667-669, 409-414	0.4	3
9	Effect of Annealing on Nanocrystalline Structure of Nb <sub>3</sub> Sn Diffusion Layers in Composites with Internal Tin Sources. <i>Defect and Diffusion Forum</i> , <b>2010</b> , 297-301, 126-131	0.7	2
8	Structure of a titanium-alloyed high-tin bronze obtained by the Osprey method. <i>Physics of Metals and Metallography</i> , <b>2010</b> , 110, 162-174	1.2	6
7	Effect of alloying on the structure of bronze with enhanced tin content. <i>Physics of Metals and Metallography</i> , <b>2007</b> , 103, 160-173	1.2	3
6	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> , <b>2007</b> , 103, 407-413	1.2	36
5	Studying nanocrystalline superconducting Nb <sub>3</sub> Sn layers in Nb/Cu-Sn composites of various design using NMR and magnetic susceptibility methods. <i>Physics of Metals and Metallography</i> , <b>2007</b> , 104, 59-66	1.2	2
4	Thermal stability of nanocrystalline Nb produced by severe plastic deformation. <i>Physics of Metals and Metallography</i> , <b>2006</b> , 101, 52-57	1.2	39
3	Effect of deformation and annealing on texture parameters of composite CuNb wire. <i>Scripta Materialia</i> , <b>2004</b> , 51, 727-731	5.6	26
2	Effect of annealing and doping with Zr on the structure and properties of in situ CuNb composite wire. <i>Scripta Materialia</i> , <b>2002</b> , 46, 193-198	5.6	17
1	The experimental investigation of copper for superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2001</b> , 354, 371-374	1.3	9