

# Elena O Nasakina

## List of Publications by Year in descending order

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49  
papers

321  
citations

840776

11  
h-index

940533

16  
g-index

50  
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50  
docs citations

50  
times ranked

141  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biocompatibility of new materials based on nano-structured nitinol with titanium and tantalum composite surface layers: experimental analysis in vitro and in vivo. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 33.	3.6	38
2	Ion Release and Surface Characterization of Nanostructured Nitinol during Long-Term Testing. <i>Nanomaterials</i> , 2019, 9, 1569.	4.1	26
3	Study of the physicochemical and biological properties of the new promising Ti-20Nb-13Ta-5Zr alloy for biomedical applications. <i>Materials Chemistry and Physics</i> , 2020, 255, 123557.	4.0	23
4	Kinetics of the release of antibiotics from chitosan-based biodegradable biopolymer membranes. <i>Doklady Chemistry</i> , 2015, 465, 278-280.	0.9	17
5	Preparation, structural and microstructural characterization of Ti-30Nb-10Ta-5Zr alloy for biomedical applications. <i>Journal of Materials Research and Technology</i> , 2020, 9, 16018-16028.	5.8	17
6	Properties of nanostructured titanium nickelide and composite based on it. <i>Theoretical Foundations of Chemical Engineering</i> , 2014, 48, 477-486.	0.7	16
7	Biocompatibility of nanostructured nitinol with titanium or tantalum surface composite layers formed by magnetron sputtering. <i>Doklady Chemistry</i> , 2015, 461, 86-88.	0.9	15
8	Development of a Biocompatible and Biodegradable Polymer Capable of Long-Term Release of Biologically Active Substances for Medicine and Agriculture. <i>Doklady Chemistry</i> , 2019, 489, 261-263.	0.9	15
9	Mechanical properties of nanostructured nitinol/chitosan composite material. <i>Inorganic Materials: Applied Research</i> , 2014, 5, 344-346.	0.5	14
10	Preparation of a nanostructured shape-memory composite material for biomedical applications. <i>Inorganic Materials</i> , 2015, 51, 400-404.	0.8	14
11	Formation of alpha and beta tantalum at the variation of magnetron sputtering conditions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 110, 012042.	0.6	12
12	Biocompatibility of the Ti81Nb13Ta3Zr3 Alloy. <i>Doklady Chemistry</i> , 2018, 482, 204-206.	0.9	12
13	Investigation of static properties of medical alloys Ti-(20-30)Nb-(10-13)Ta-5Zr. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 347, 012049.	0.6	9
14	Formation and investigation of composite material silver-nitinol for medical purposes. <i>Inorganic Materials: Applied Research</i> , 2017, 8, 112-117.	0.5	8
15	Long-term corrosion tests of nanostructural nitinol of (55.91 wt % Ni, 44.03 wt % Ti) composition under static conditions: Ion release. <i>Inorganic Materials: Applied Research</i> , 2015, 6, 59-66.	0.5	7
16	Influence of the Surface Modification on the Mechanical Properties of NiTi (55.8 wt % Ni) Alloy Wire for Medical Purposes. <i>Inorganic Materials: Applied Research</i> , 2018, 9, 751-756.	0.5	7
17	Development of a Biodegradable Polymer Based on High-Molecular-Weight Polylactide for Medicine and Agriculture: Mechanical Properties and Biocompatibility. <i>Doklady Chemistry</i> , 2020, 490, 36-39.	0.9	7
18	Long-term corrosion tests of nanostructural nitinol of (55.91 wt % Ni, 44.03 wt % Ti) composition under static conditions: Composition and structure before and after corrosion. <i>Inorganic Materials: Applied Research</i> , 2015, 6, 53-58.	0.5	6

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19	Poly lactide-Based Stent Coatings: Biodegradable Polymeric Coatings Capable of Maintaining Sustained Release of the Thrombolytic Enzyme Prourokinase. <i>Materials</i> , 2019, 12, 4107.	2.9	6
20	The structure of the alloy Ti - (20-30) Nb - 5Zr after smelting and homogenizing annealing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 525, 012060.	0.6	5
21	Study of the coefficient of heat expansion of TiNbTaZr alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 525, 012092.	0.6	5
22	Investigation of the influence of the composition on mechanical properties of polylactide. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 347, 012026.	0.6	4
23	Investigation of the properties of heat-resistant spherical powders. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 525, 012076.	0.6	4
24	Corrosive researches of nonnickel shape memory alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 525, 012068.	0.6	4
25	The use of ion-atomic deposition in the fabrication of one-dimensional composites. <i>Inorganic Materials: Applied Research</i> , 2015, 6, 293-297.	0.5	3
26	Influence of annealing on mechanical properties of TiNi (55.8 mass % of Ni) wire made for medical purposes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 347, 012022.	0.6	3
27	Formation of biodegradated polymers as components of future composite materials on the basis of shape memory alloy of medical appointment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 347, 012016.	0.6	3
28	The effect of the titanium surface layer thickness on the characteristics of a layered composite material. <i>Journal of Physics: Conference Series</i> , 2019, 1281, 012057.	0.4	3
29	Poly lactide-based stent coatings: biodegradable polymeric coatings capable of maintaining sustained release of the thrombolytic enzyme streptokinase. <i>Pure and Applied Chemistry</i> , 2020, 92, 1329-1340.	1.9	3
30	Receiving of layered composite materials with shape memory effect of medical appointment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 411, 012051.	0.6	2
31	Mechanical Properties of Titanium Nickelide "Tantalum" Chitosan Composite Material. <i>Inorganic Materials: Applied Research</i> , 2019, 10, 818-821.	0.5	2
32	Study of the effect of the introduction of heparin on the mechanical properties of polylactide. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 525, 012098.	0.6	2
33	Development of medical material based on nickel-titanium. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 683, 012057.	0.6	2
34	Formation of biocompatible surface layers depending on the sputtering distance. <i>Journal of Physics: Conference Series</i> , 2017, 857, 012032.	0.4	1
35	Colloidal selenium solutions prepared by laser ablation and ultrasonic dispersion. <i>Journal of Physics: Conference Series</i> , 2018, 1134, 012015.	0.4	1
36	Investigation of the influence of the composition on mechanical properties poly(glycolide-DL-lactide). <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 347, 012042.	0.6	1

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37	Investigation of the surface layer thickness uniformity at the magnetron sputtering depending on the geometry of the flow. IOP Conference Series: Materials Science and Engineering, 0, 525, 012062.	0.6	1
38	Obtaining a Wire of Biocompatible Superelastic Alloy Ti-28Nb-5Zr. Materials, 2020, 13, 2187.	2.9	1
39	Effect of annealing on the static properties of Ti-20Nb-10Ta alloy. Journal of Physics: Conference Series, 2020, 1431, 012003.	0.4	1
40	Studying of the polymeric surface layer biodegradation of composite material of medical appointment. Journal of Physics: Conference Series, 2018, 1134, 012044.	0.4	0
41	Biocompatibility of Biodegradable Polymer Films Based on Poly(lactic-co-glycolic acid) of Various Molecular Weights. Inorganic Materials: Applied Research, 2019, 10, 887-891.	0.5	0
42	Study of polylactide degradation rate in a phosphate buffer solution. IOP Conference Series: Materials Science and Engineering, 2019, 525, 012100.	0.6	0
43	Method of Estimation of Mechanical Properties of the Surface Layer of Cutter Elements Made of Polycrystalline Superhard Composites Based on Cubic Boron Nitride. Inorganic Materials: Applied Research, 2019, 10, 195-201.	0.5	0
44	Corrosion resistance of nonnickel shape memory alloy. IOP Conference Series: Materials Science and Engineering, 2020, 848, 012102.	0.6	0
45	Research of mechanical properties of composite material based on titanium nickelide with a titanium surface layer depending on magnetron sputtering time. IOP Conference Series: Materials Science and Engineering, 2020, 848, 012103.	0.6	0
46	The effect of homogenizing annealing on the microstructure and microhardness of Ti-20Nb-(7.5-10)Ta alloys (at.%). IOP Conference Series: Materials Science and Engineering, 2020, 848, 012038.	0.6	0
47	Study of the effect of the catalyst on the mechanical properties of RTV grade siloxane. IOP Conference Series: Materials Science and Engineering, 2020, 848, 012104.	0.6	0
48	Study of the effect of the catalyst on the microstructure and film thickness of RTV siloxane. IOP Conference Series: Materials Science and Engineering, 2020, 848, 012105.	0.6	0
49	Dynamics of Nonlinear Processes of Corrosion of Non-Nikel Titanium Shape Memory Alloy. Nonlinear Phenomena in Complex Systems, 2019, 22, 354-361.	0.3	0