Mikhail Sevostyanov

List of Publications by Citations

62 papers	337 citations	11 h-index	16 g-index
62 ext. papers	409 ext. citations	0.8 avg, IF	3.36 L-index

#	Paper	IF	Citations
62	Unmodified hydrated Fullerene molecules exhibit antioxidant properties, prevent damage to DNA and proteins induced by reactive oxygen species and protect mice against injuries caused by radiation-induced oxidative stress. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2019**, 15, 37-46	6	43
61	The Effect of Gold Nanoparticle Concentration and Laser Fluence on the Laser-Induced Water Decomposition. *Journal of Physical Chemistry B*, **2019**, 123, 1869-1880	3.4	39
60	Biocompatibility of new materials based on nano-structured nitinol with titanium and tantalum composite surface layers: experimental analysis in vitro and in vivo. *Journal of Materials Science: Materials in Medicine*, **2018**, 29, 33	4.5	31
59	Molding Features of Silicon Carbide Products by the Method of Hot Slip Casting. *Inorganic Materials: Applied Research*, **2018**, 9, 675-678	0.6	22
58	Biodegradable stent coatings on the basis of PLGA polymers of different molecular mass, sustaining a steady release of the thrombolityc enzyme streptokinase. *Reactive and Functional Polymers*, **2020**, 150, 104550	4.6	17
57	Kinetics of the release of antibiotics from chitosan-based biodegradable biopolymer membranes. *Doklady Chemistry*, **2015**, 465, 278-280	0.8	15
56	Properties of nanostructured titanium nickelide and composite based on it. *Theoretical Foundations of Chemical Engineering*, **2014**, 48, 477-486	0.9	14
55	Biocompatibility of nanostructured nitinol with titanium or tantalum surface composite layers formed by magnetron sputtering. *Doklady Chemistry*, **2015**, 461, 86-88	0.8	13
54	Ion Release and Surface Characterization of Nanostructured Nitinol during Long-Term Testing. *Nanomaterials*, **2019**, 9,	5.4	13
53	Development of a Biocompatible and Biodegradable Polymer Capable of Long-Term Release of Biologically Active Substances for Medicine and Agriculture. *Doklady Chemistry*, **2019**, 489, 261-263	0.8	13
52	Preparation of a nanostructured shape-memory composite material for biomedical applications. *Inorganic Materials*, **2015**, 51, 400-404	0.9	11
51	Biocompatibility of the Ti81Nb13Ta3Zr3 Alloy. *Doklady Chemistry*, **2018**, 482, 204-206	0.8	11
50	Investigation of static properties of medical alloys Ti-(20-30)Nb-(10-13)Ta-5Zr. *IOP Conference Series: Materials Science and Engineering*, **2018**, 347, 012049	0.4	9
49	Formation of alpha and beta tantalum at the variation of magnetron sputtering conditions. *IOP Conference Series: Materials Science and Engineering*, **2016**, 110, 012042	0.4	8
48	Formation and investigation of composite material silver-nitinol for medical purposes. *Inorganic Materials: Applied Research*, **2017**, 8, 112-117	0.6	7
47	Receiving finely divided metal powder by inert gas atomization. *IOP Conference Series: Materials Science and Engineering*, **2018**, 347, 012033	0.4	5
46	Development of a Biodegradable Polymer Based on High-Molecular-Weight Polylactide for Medicine and Agriculture: Mechanical Properties and Biocompatibility. *Doklady Chemistry*, **2020**, 490, 36-39	0.8	5

45	The structure of the alloy Ti - (20-30) Nb - 5Zr after smelting and homogenizing annealing. *IOP Conference Series: Materials Science and Engineering*, **2019**, 525, 012060	0.4	5
44	Study of the coefficient of heat expansion of TiNbTaZr alloy. *IOP Conference Series: Materials Science and Engineering*, **2019**, 525, 012092	0.4	5
43	Characterization of spherical stainless steel powders prepared by electric arc spraying process. *IOP Conference Series: Materials Science and Engineering*, **2020**, 848, 012033	0.4	4
42	Properties of spherical stainless steel powders. *IOP Conference Series: Materials Science and Engineering*, **2019**, 525, 012075	0.4	4
41	Corrosive researches of nonnickel shape memory alloy. *IOP Conference Series: Materials Science and Engineering*, **2019**, 525, 012068	0.4	4
40	Investigation of the influence of the composition on mechanical properties of polylactide. *IOP Conference Series: Materials Science and Engineering*, **2018**, 347, 012026	0.4	4
39	The use of ion-atomic deposition in the fabrication of one-dimensional composites. *Inorganic Materials: Applied Research*, **2015**, 6, 293-297	0.6	3
38	Effect of heat treatment on the mechanical properties and the structure of a high-nitrogen austenitic 02Kh20AG10N4MFB steel. *Russian Metallurgy (Metally)*, **2016**, 2016, 613-618	0.5	3
37	Polylactide-based stent coatings: biodegradable polymeric coatings capable of maintaining sustained release of the thrombolytic enzyme streptokinase. *Pure and Applied Chemistry*, **2020**, 92, 1329-1340	2.1	3
36	Electrochemical recycling of nickel-cobalt-containing tungsten alloys. *IOP Conference Series: Materials Science and Engineering*, **2019**, 525, 012088	0.4	3
35	The improvement of rhenium recovery technology from W-Re alloys. *Journal of Physics: Conference Series*, **2018**, 1134, 012032	0.3	3
34	Formation of biodegradated polymers as components of future composite materials on the basis of shape memory alloy of medical appointment. *IOP Conference Series: Materials Science and Engineering*, **2018**, 347, 012016	0.4	3
33	Investigation of the properties of heat-resistant spherical powders. *IOP Conference Series: Materials Science and Engineering*, **2019**, 525, 012076	0.4	2
32	Study of the effect of the introduction of heparin on the mechanical properties of polylactide. *IOP Conference Series: Materials Science and Engineering*, **2019**, 525, 012098	0.4	2
31	Influence of annealing on mechanical properties of TiNi (55.8 mass % of Ni) wire made for medical purposes. *IOP Conference Series: Materials Science and Engineering*, **2018**, 347, 012022	0.4	2
30	Shear Strength of the Cylindrical Titanium Implant–Plastic System. *Inorganic Materials: Applied Research*, **2018**, 9, 855-860	0.6	2
29	Preparation and mechanical properties of SiC-TiN composite. *IOP Conference Series: Materials Science and Engineering*, **2018**, 347, 012043	0.4	2
28	Methods of Producing Ceramic on the Basis of Metal Nitrides (Review). *Glass and Ceramics (English Translation of Steklo I Keramika)*, **2019**, 76, 63-67	0.6	1

27	Changes in electrochemical properties of a heavy tungsten alloy during its processing under the influence of DC current in ammonia-alkali solutions. *IOP Conference Series: Materials Science and Engineering*, **2020**, 848, 012045	0.4	1
26	Research and development of the inert gas atomization of the wire by means of arc spraying. *IOP Conference Series: Materials Science and Engineering*, **2020**, 848, 012111	0.4	1
25	Influence of microstructure on fracture feature of Ti6Al4V alloy prepared by 3D printing. *IOP Conference Series: Materials Science and Engineering*, **2020**, 726, 012020	0.4	1
24	A □Ti20Nb10Ta5Zr Alloy with the Surface Structured on the Micro- and Nanoscale. *Doklady Physics*, **2021**, 66, 14-16	0.8	1
23	Investigation of the influence of the composition on mechanical properties poly(glycolide-DL-lactide). *IOP Conference Series: Materials Science and Engineering*, **2018**, 347, 012042	0.4	1
22	Study of the Structure, Mechanical Characteristics, and Antibacterial Properties of Corrosion-Resistant Steel Alloyed with Silver and Titanium. *Doklady Chemistry*, **2022**, 502, 37-44	0.8	1
21	Structural characteristics of NiTi alloys after thermal treatment. *IOP Conference Series: Materials Science and Engineering*, **2020**, 726, 012019	0.4	0
20	Synthesis of alumomagnesian spinel by mechanical activation method. *IOP Conference Series: Materials Science and Engineering*, **2019**, 525, 012071	0.4	0
19	Formation of biocompatible surface layers depending on the sputtering distance. *Journal of Physics: Conference Series*, **2017**, 857, 012032	0.3	0
18	Ti-(15-25)Nb-5Ta Alloy Plate Hardness Research for Medical Applications. *IOP Conference Series: Materials Science and Engineering*, **2020**, 848, 012101	0.4	0
17	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	0.4	
16	AC electrochemical oxidation of nickel and VNZh alloy in alkaline-ammonium solutions. *IOP Conference Series: Materials Science and Engineering*, **2020**, 848, 012046	0.4	
15	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*, **2019**, 525, 012062	0.4	
14	The Influence of Low-energy Flow of Argon Ions on Topography and Mechanical Properties of Maraging Steel. *High Temperature Materials and Processes*, **2009**, 28, 9-24	0.9	
13	Soil Mixtures As An Element That Increases The Immunity Of Meadow Bluegrass To The Causative Agent Of Root Diseases Of Fusarium Etiology. *IOP Conference Series: Earth and Environmental Science*, **2021**, 901, 012065	0.3	
12	Dynamics of Nonlinear Processes of Corrosion of Non-Nikel Titanium Shape Memory Alloy. *Nonlinear Phenomena in Complex Systems*, **2019**, 22, 354-361	0.5	
11	Biomechanical compatibility study of a nickel-free medical TiNbZr shape memory alloy. *Journal of Physics: Conference Series*, **2021**, 1942, 012067	0.3	
10	Investigation of the structure and mechanical properties of stainless steel alloyed with silver. *Journal of Physics: Conference Series*, **2021**, 1942, 012101	0.3	

9	Prospects for using sapropel deposits to increase the resistance of plants to stress factors. *Journal of Physics: Conference Series*, **2021**, 1942, 012105	0.3
8	Effect of heat treatment on the mechanical properties of stainless steel wire. *Journal of Physics: Conference Series*, **2021**, 1942, 012102	0.3
7	Electrochemical processing of heavy tungsten alloy wastes for obtaining a microdispersed iron-nickel base powder by using alternating current. *Journal of Physics: Conference Series*, **2021**, 1942, 012056	0.3
6	Study of the effects of the introduction of heparin on the mechanical properties of poly (glycolide-dl-lactide). *IOP Conference Series: Materials Science and Engineering*, **2019**, 525, 012099	0.4
5	The study of ceramic materials system SiC-YAG. *IOP Conference Series: Materials Science and Engineering*, **2019**, 525, 012070	0.4
4	Characteristic of zinc ferrite decomposition by calcium and magnesium oxides. *IOP Conference Series: Materials Science and Engineering*, **2019**, 525, 012097	0.4
3	Investigation of the thermal stability of titanium nickelide tantalum coating using photometric analysis of structural images. *Journal of Physics: Conference Series*, **2019**, 1347, 012021	0.3
2	The synthesis of n-type and p-type ZnSb compositions for thermoelectric applications. *Journal of Physics: Conference Series*, **2018**, 1134, 012077	0.3
1	Shear strength of a three-dimensional capillary-porous titanium coating for biomedical applications. *IOP Conference Series: Materials Science and Engineering*, **2018**, 347, 012002	0.4