

Konstantin Krukovskii

List of Publications by Year in descending order

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papers

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74
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#	ARTICLE	IF	CITATIONS
1	Multiscale Deformation of Commercial Titanium and Ti-6Al-4V Alloy Subjected to Electron Beam Surface Treatment. <i>Physical Mesomechanics</i> , 2018, 21, 441-451.	1.9	32
2	Structural characteristics of copper nanoparticles produced by the electric explosion of wires with different structures of metal grains. <i>Current Applied Physics</i> , 2017, 17, 201-206.	2.4	16
3	Effect of True Strains in Isothermal abc Pressing on Mechanical Properties of Ti49.8Ni50.2 Alloy. <i>Metals</i> , 2020, 10, 1313.	2.3	10
4	The influence of degree of deformation under isothermal abc pressing on evolution of structure and temperature of phase transformations of alloy based on titanium nickelide. <i>Inorganic Materials: Applied Research</i> , 2015, 6, 96-104.	0.5	7
5	Structural phase states in nickel-titanium surface layers doped with silicon by plasma immersion ion implantation. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	5
6	Strain-Induced Surface Roughening in Polycrystalline VT1-0 Titanium Specimens under Uniaxial Tension. <i>Physical Mesomechanics</i> , 2018, 21, 249-257.	1.9	5
7	The Evolution of the Microstructure and System of Ti3Ni4 Particles upon Heat Treatments of a Ti~50.9 at % Ni Nanocrystalline Alloy. <i>Technical Physics</i> , 2019, 64, 490-496.	0.7	4
8	Effect of abc Pressing at 573 K on the Microstructure and Martensite Transformation Temperatures in Ti49.8Ni50.2 (at%). <i>Metals</i> , 2021, 11, 1145.	2.3	4
9	Structure and properties of self-expanding intravascular NiTi stents doped with Si ions. <i>Materials Today: Proceedings</i> , 2017, 4, 4647-4651.	1.8	3
10	Opportunities and prospects for the use of porous silicon to create a polymer-free drug coating on intravascular stents. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
11	Regularities of the formation and the role of secondary structures in the improvement of the wear resistance of commercially pure titanium VT1-0. <i>Journal of Friction and Wear</i> , 2012, 33, 184-189.	0.5	2
12	Hydrogen-induced failure of TiNi based alloy with coarse-grained and ultrafine-grained structure. <i>Procedia Structural Integrity</i> , 2016, 2, 1481-1488.	0.8	2
13	Effect of plasma immersion ion beam processing on the structureâ€“phase state and the properties of the surface layers in titanium nickelide samples. <i>Russian Metallurgy (Metally)</i> , 2017, 2017, 250-254.	0.5	2
14	Mechanical behavior of deformed intravascular NiTi stents differing in design. Numerical simulation. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2
15	Enhancement of Mechanical Stability of Silicon Macrospecimens Containing Hierarchically-Structured Porous Silicon. <i>Russian Physics Journal</i> , 2020, 63, 997-1002.	0.4	2
16	Potential and Capabilities of Porous Silicon as a Material for Intravascular Drug-Eluting Stents: Brief Summary. <i>Inorganic Materials: Applied Research</i> , 2020, 11, 287-296.	0.5	2
17	Plasma immersion ion implantation for surface treatment of complex branched structures. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
18	Structural and phase transformations in TiNi treated in ion plasma. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1

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19	Substructural-Phase Transformations during Heat Treatments of the Ti-50.9 at % Ni Nanocrystalline Alloy. Technical Physics Letters, 2018, 44, 1120-1123.	0.7	1
20	Structure and properties of coatings obtained by plasma-immersion treatment with silicon ions of TiNi alloy. AIP Conference Proceedings, 2018, , .	0.4	1
21	Estimation of the Diffusion Coefficient of Doxorubicin Molecules in a Water Solution in the Volume of a Porous Carrier Medium. Russian Physics Journal, 2020, 62, 2319-2323.	0.4	1
22	The development of self-expanding peripheral stent with ion-modified surface layer. AIP Conference Proceedings, 2016, , .	0.4	0
23	Effect of plasma immersion ion implantation in TiNi implants on its interaction with animal subcutaneous tissues. AIP Conference Proceedings, 2016, , .	0.4	0
24	Effect of plasma ion immersion treatment on the structure and phase state of the TiNi alloy for medical implantants. Journal of Physics: Conference Series, 2018, 1115, 032027.	0.4	0
25	Effect of heat treatments on the structure and properties of a small-diameter thin-walled tube of a medical nickel titanium alloy. Journal of Physics: Conference Series, 2019, 1347, 012085.	0.4	0
26	Silicon coating deposition on NiTi substrate by plasma immersion ion implantation and deposition. Journal of Physics: Conference Series, 2019, 1393, 012094.	0.4	0
27	Formation of the silicon coating on the NiTi substrate by magnetron sputtering. Journal of Physics: Conference Series, 2019, 1393, 012100.	0.4	0
28	The formation of porous structure in silicon by the methods of metal-assisted chemical etching and electrochemical etching. AIP Conference Proceedings, 2019, , .	0.4	0
29	Simulation of three-point bending test of the silicon-coated nitinol bar. Procedia Structural Integrity, 2020, 25, 477-485.	0.8	0
30	The development of mechanically stable silicon macro-samples with hierarchically ordered porous structure area for using in medicine. AIP Conference Proceedings, 2020, , .	0.4	0
31	A new method of anticancer drugs activity screening with the use of laser interference microscopy. AIP Conference Proceedings, 2020, , .	0.4	0
32	Strength and fracture of tensile Ti49.8Ni50.2 alloy specimens after isothermal abc forging. AIP Conference Proceedings, 2020, , .	0.4	0
33	Effect of abc pressing temperature on the mechanical properties in Ti49.8Ni50.2 alloy. AIP Conference Proceedings, 2022, , .	0.4	0
34	Mechanical Properties of the Ti49.8Ni50.2 Alloy after Multi-Axial Forging at 573 K. Metals, 2022, 12, 1043.	2.3	0