

Ekaterina S Marchenko

List of Publications by Year in descending order

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50
papers

382
citations

758635

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16
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52
docs citations

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times ranked

144
citing authors

#	ARTICLE	IF	CITATIONS
1	Biocompatibility and Clinical Application of Porous TiNi Alloys Made by Self-Propagating High-Temperature Synthesis (SHS). <i>Materials</i> , 2019, 12, 2405.	1.3	39
2	Formation of pores and amorphous-nanocrystalline phases in porous TiNi alloys made by self-propagating high-temperature synthesis (SHS). <i>Advanced Powder Technology</i> , 2019, 30, 673-680.	2.0	27
3	Structural, tribological and antibacterial properties of ($\hat{1}\pm + \hat{1}^2$) based ti-alloys for biomedical applications. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14061-14074.	2.6	22
4	Secondary phases strengthening-toughening effects in the Mo–Ti–La2O3 alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142271.	2.6	18
5	Formation of mineral phases in self-propagating high-temperature synthesis (SHS) of porous TiNi alloy. <i>Materials Research Express</i> , 2019, 6, 056522.	0.8	17
6	Repair of Orbital Post-Traumatic Wall Defects by Custom-Made TiNi Mesh Endografts. <i>Journal of Functional Biomaterials</i> , 2019, 10, 27.	1.8	16
7	Influence of Silver Addition on Structure, Martensite Transformations and Mechanical Properties of TiNi–Ag Alloy Wires for Biomedical Application. <i>Materials</i> , 2020, 13, 4721.	1.3	15
8	Fertility-Sparing Surgery Using Knitted TiNi Mesh Implants and Sentinel Lymph Nodes: A 10-Year Experience. <i>Journal of Investigative Surgery</i> , 2020, 34, 1-9.	0.6	15
9	Study of the knitted TiNi mesh graft in a rabbit cranioplasty model. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 027005.	0.6	14
10	Changes in the Stress–Strain States of Subsurface Layers of Steel During Loading. <i>Russian Physics Journal</i> , 2018, 60, 1577-1585.	0.2	13
11	Study on tensile, bending, fatigue, and in vivo behavior of porous SHS–TiNi alloy used as a bone substitute. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 021001.	1.7	13
12	The Influence of the Surface Layer on the Combination of Properties of Thin TiNi Alloy Wires. <i>Technical Physics Letters</i> , 2018, 44, 811-813.	0.2	12
13	Evaluation of Clinical Performance of TiNi-Based Implants Used in Chest Wall Repair after Resection for Malignant Tumors. <i>Journal of Functional Biomaterials</i> , 2021, 12, 60.	1.8	12
14	Study of structural phase transitions in quinary TiNi(MoFeAg)-based alloys. <i>Materials Research Express</i> , 2017, 4, 105702.	0.8	11
15	The Structure and Properties of Microcrystalline and Submicrocrystalline Titanium Alloy VT1-0 in the Area of the Electron Beam Welding Seam. <i>Russian Physics Journal</i> , 2017, 60, 990-1000.	0.2	10
16	Metal-Glass-Ceramic Phases on the Surface of Porous TiNi-Based SHS-Material for Carriers of Cells. <i>Russian Physics Journal</i> , 2019, 61, 1734-1740.	0.2	10
17	Biocompatibility of Porous SHS-TiNi. <i>Materials Science Forum</i> , 0, 970, 320-327.	0.3	8
18	Gradient crystalline coating on a biomedical TiNi alloy prepared by magnetron sputtering and annealing. <i>Vacuum</i> , 2020, 181, 109652.	1.6	8

#	ARTICLE	IF	CITATIONS
19	Study of the Effect of Diamond Nanoparticles on the Structure and Mechanical Properties of the Medical Mg-Ca-Zn Magnesium Alloy. <i>Metals</i> , 2022, 12, 206.	1.0	8
20	Phase equilibrium, structure, mechanical and biocompatible properties of TiNi-based alloy with silver. <i>Materials Research Express</i> , 2019, 6, 066559.	0.8	7
21	Phase formation during air annealing of Ti-Ni-Ti laminate. <i>Surface and Coatings Technology</i> , 2020, 388, 125543.	2.2	7
22	Softening Effects in Biological Tissues and NiTi Knitwear during Cyclic Loading. <i>Materials</i> , 2021, 14, 6256.	1.3	7
23	Improved mechanical properties of porous nitinol by aluminum alloying. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165617.	2.8	6
24	MOCVD of Noble Metal Film Materials for Medical Implants: Microstructure and Biocompatibility of Ir and Au/Ir Coatings on TiNi. <i>Coatings</i> , 2021, 11, 638.	1.2	5
25	Effect of stress-induced martensite ageing on the one-way and two-way shape memory effect of [0 1 1]-oriented TiNiCu crystals under tension. <i>Materials Letters</i> , 2021, 305, 130773.	1.3	5
26	Exploring the role of surface modifications of TiNi-based alloys in evaluating in vitro cytocompatibility: a comparative study. <i>Surface Topography: Metrology and Properties</i> , 2020, 8, 045015.	0.9	5
27	The influence of phase hardening on premartensitic states and on martensitic transformation in multicomponent alloys Ti(Ni, Co, Mo) with shape memory effects. <i>Inorganic Materials: Applied Research</i> , 2011, 2, 387-394.	0.1	4
28	Physical properties of the TiNi-based alloys doped with silver. <i>Materials Today: Proceedings</i> , 2017, 4, 4727-4731.	0.9	4
29	The effect of thermal cycling on the martensitic transformations of (TiNiMoFe)Ag alloys. <i>Technical Physics Letters</i> , 2017, 43, 940-943.	0.2	4
30	Superelasticity and two-way shape memory effect in [0 0 1]-oriented TiNiCu single crystals under compression. <i>Materials Letters</i> , 2020, 281, 128646.	1.3	4
31	Impact of annealing temperature on martensite transformations and structure of quaternary Ti50Ni47.7Mo0.3V2 alloy. <i>Advanced Materials Letters</i> , 2017, 8, 122-127.	0.3	4
32	Portable universal tensile testing machine for studying mechanical properties of superelastic biomaterials. <i>Engineering Research Express</i> , 2021, 3, 045055.	0.8	4
33	In Vitro Bio-Testing Comparative Analysis of NiTi Porous Alloys Modified by Heat Treatment. <i>Metals</i> , 2022, 12, 1006.	1.0	4
34	Effect of Alloying of Titanium Nickelide-Based Alloys with Group V Elements (Vanadium, Niobium) on Their Mechanical Properties. <i>Russian Metallurgy (Metally)</i> , 2018, 2018, 990-994.	0.1	3
35	The Effect of Silver Doping on the Structure and Shape Memory Effect in Biocompatible TiNi Alloys. <i>Technical Physics Letters</i> , 2018, 44, 749-752.	0.2	3
36	Structural-phase surface composition of porous TiNi produced by SHS. <i>Materials Research Express</i> , 2019, 6, 1165b1.	0.8	3

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37	Martensitic Transformations of the Titanium-Nickel Alloys with Different Alloying Additions. Technical Physics, 2020, 65, 737-740.	0.2	3
38	Repair of huge thoracic defect combined with hernia after multimodality treatment of breast cancer. Respiratory Medicine Case Reports, 2021, 34, 101558.	0.2	2
39	Effect of an isothermal action on the functional properties and the shape memory effect parameters of a TiNi(Mo, V) alloy. Russian Metallurgy (Metally), 2017, 2017, 267-270.	0.1	1
40	Structure feature of ternary state diagrams of Cr-Ti-V and Cr-Mn-V systems. MATEC Web of Conferences, 2018, 243, 00014.	0.1	1
41	Effect of the Size Factor on the Strength and Plastic Properties, the Shape Memory Effect, and the Superelasticity of TiNi-Based Thin Filaments. Russian Metallurgy (Metally), 2020, 2020, 1116-1121.	0.1	1
42	Viscoelastic Deformation and Fracture of Porous Nickel Titanium after Tension and Cyclic Bending. Russian Physics Journal, 2020, 63, 1243-1248.	0.2	1
43	Comparative study on the high-temperature oxidation resistance of porous and solid TiNi-based alloys. Surface Topography: Metrology and Properties, 2021, 9, 025007.	0.9	1
44	Possibilities of using cryotherapy in patients with ocular rosacea. Ophthalmology Journal, 2018, 11, 7-14.	0.1	1
45	Influence of Wire Geometry on the Mechanical Behavior of the TiNi Design. Metals, 2022, 12, 1131.	1.0	1
46	Bain strain upon thermoelastic martensitic transformation in intermetallic compounds based on titanium nickelide. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1033-1036.	0.1	0
47	Evolution of the reinforced I-beam strain state. MATEC Web of Conferences, 2018, 143, 01017.	0.1	0
48	The Effect of Subsequent Stress-Induced Martensite Aging on the Viscoelastic Properties of Aged NiTiHf Polycrystals. Metals, 2021, 11, 1890.	1.0	0
49	Study of macroplastic flow in surface layers of porous titanium nickelide by digital image correlation. AIP Conference Proceedings, 2022, , .	0.3	0
50	Combination of Solid and Porous Nitinol Implants in Surgical Treatment of Extensive Post-Excision Thoracic Defects in Cancer Patients. , 2022, , .		0