

Natalia N Kuranova

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Structural and Phase Transformations and Physical and Mechanical Properties of Cu-Al-Ni Shape Memory Alloys Subjected to Severe Plastic Deformation and Annealing. <i>Materials</i> , 2021, 14, 4394.	1.3	8
2	Application of Isothermal Upset for Megaplastic Deformation of Cu-Al-Ni Alloys. <i>Technical Physics</i> , 2020, 65, 1044-1050.	0.2	10
3	Atomic Disordering and BCC \rightarrow FCC Transformation in the Heusler Compound Ni ₅₄ Mn ₂₀ Fe ₁ Ga ₂₅ Subject to High-Pressure Torsional Megaplastic Deformation. <i>Technical Physics</i> , 2020, 65, 602-611.	0.2	4
4	Deformation-Induced Atomic Disordering and bcc \rightarrow fcc Transformation in Heusler Alloy Ni ₅₄ Mn ₂₁ Ga ₂₅ Subjected to Megaplastic Deformation by High Pressure Torsion. <i>Physics of Metals and Metallography</i> , 2020, 121, 330-336.	0.3	6
5	The Effect of Plastification of Cu-14Al-4Ni Alloy with the Shape Memory Effect in High-Temperature Isothermal Precipitation. <i>Technical Physics Letters</i> , 2020, 46, 118-121.	0.2	9
6	Specific Features of the Atomic Structure of Ti ₅₀ Ni ₂₅ Cu ₂₅ Alloy Rapidly Quenched from Melt. <i>Crystallography Reports</i> , 2020, 65, 12-17.	0.1	0
7	Design and Development of Ti-Ni, Ni-Mn-Ga and Cu-Al-Ni-based Alloys with High and Low Temperature Shape Memory Effects. <i>Materials</i> , 2019, 12, 2616.	1.3	28
8	Specific Features of the Atomic Structure of the Ti ₅₀ Ni ₂₅ Cu ₂₅ Alloy Amorphized during Rapid Quenching from a Melt. <i>Physics of Metals and Metallography</i> , 2019, 120, 164-170.	0.3	3
9	Multicomponent alloys with thermally, mechanically and magnetically controlled shape memory effects. <i>Journal of Physics: Conference Series</i> , 2019, 1389, 012098.	0.3	0
10	Effect of the Temperature of Isothermal Upsetting on the Structure and the Properties of the Shape Memory Cu-14 wt % Al-4 wt % Ni Alloy. <i>Physics of Metals and Metallography</i> , 2019, 120, 1159-1165.	0.3	10
11	Influence of Thermomechanical Treatment on Structural-Phase Transformations and Mechanical Properties of the Cu-Al-Ni Shape-Memory Alloys. <i>Russian Physics Journal</i> , 2019, 61, 1681-1686.	0.2	12
12	Development of High-Strength, Fine, and Ultrafine-Grained Shape Memory Alloys. <i>Physics of Metals and Metallography</i> , 2018, 119, 1346-1349.	0.3	0
13	Structure and Thermoelastic Martensitic Transformations in Ternary Ni-Ti-Zr Alloys with High-Temperature Shape Memory Effects. <i>Physics of Metals and Metallography</i> , 2018, 119, 582-588.	0.3	5
14	Molecular Dynamics Study of the Deformation Processes of Metallic Materials in Structural and Phase (Martensitic) Transformations. <i>Physics of Metals and Metallography</i> , 2018, 119, 589-597.	0.3	6
15	Effect of the Thermomechanical Treatment on Structural and Phase Transformations in Cu-14Al-3Ni Shape Memory Alloy Subjected to High-Pressure Torsion. <i>Physics of Metals and Metallography</i> , 2018, 119, 374-382.	0.3	16
16	FEATURES OF LOW-TEMPERATURE CRYSTALLIZATION OF Ti ₂ NiCu AMORPHIZED BY THE METHOD OF SPINNING FROM MELT. <i>Diagnostics Resource and Mechanics of Materials and Structures</i> , 2018, , 51-58.	0.1	0
17	Structure, phase transformations and properties of the TiNi-TiCu alloys subjected to high pressure torsion. <i>Materials Today: Proceedings</i> , 2017, 4, 4846-4850.	0.9	2
18	Structure and phase transformations in copper-alloyed rapidly melt-quenched Ni ₅₀ Ti ₃₂ Hf ₁₈ -based alloys with high-temperature shape memory effect. <i>Physics of Metals and Metallography</i> , 2017, 118, 997-1005.	0.3	7

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19	The structureâ€“phase transformations and mechanical properties of the shape memory effect alloys based on the system Cuâ€“Alâ€“Ni. <i>Materials Today: Proceedings</i> , 2017, 4, 4758-4762.	0.9	8
20	Features of thermoelastic martensitic transformations, structure and properties in ternary B2-alloys based on NiMn â€“ NiTi, NiMn â€“ NiAl, NiMn â€“ NiGa, Ni ₂ MnGa â€“ Ni ₃ Ga quasi-binary systems. <i>Materials Today: Proceedings</i> , 2017, 4, 4717-4721.	0.9	0
21	Fine structure and mechanical properties of the shape-memory Ni ₅₀ Ti ₃₂ Hf ₁₈ alloy rapidly quenched by spinning. <i>Technical Physics</i> , 2017, 62, 1189-1193.	0.2	5
22	Features of Crystallization of Rapidly Quenched Ni ₄₅ Ti ₃₂ Hf ₁₈ Cu ₅ and Ni ₂₅ Ti ₃₂ Hf ₁₈ Cu ₂₅ Alloys from Melt with High-Temperature Shape Memory Effect. <i>Technical Physics</i> , 2017, 62, 1843-1847.	0.2	2
23	Effect of gallium alloying on the structure, the phase composition, and the thermoelastic martensitic transformations in ternary Niâ€“Mnâ€“Ga alloys. <i>Technical Physics</i> , 2016, 61, 547-553.	0.2	7
24	Thermoelastic martensitic transformations, mechanical properties, and shape-memory effects in rapidly quenched Ni ₄₅ Ti ₃₂ Hf ₁₈ Cu ₅ alloy in the ultrafine-grained state. <i>Physics of Metals and Metallography</i> , 2016, 117, 1261-1269.	0.3	6
25	Structural and phase transformations, mechanical properties, and shape-memory effects in quasibinary Ni ₅₀ Ti ₃₈ Hf ₁₂ alloy obtained by quenching from the melt. <i>Physics of Metals and Metallography</i> , 2016, 117, 1251-1260.	0.3	10
26	Thermoelastic martensitic transformations in ternary Ni ₅₀ Mn ₅₀ â€“z Ga z alloys. <i>Technical Physics Letters</i> , 2016, 42, 75-78.	0.2	1
27	Structure and Mechanical Properties of Shape-Memory Alloys of the Ti â€“ Ni â€“ Cu System. <i>Metal Science and Heat Treatment</i> , 2016, 57, 739-745.	0.2	4
28	Structure and thermoelastic martensitic transformations in ternary Niâ€“Tiâ€“Hf alloys with a high-temperature shape memory effect. <i>Technical Physics</i> , 2016, 61, 1009-1014.	0.2	15
29	Effect of copper on the structureâ€“phase transformations and the properties of quasi-binary TiNiâ€“TiCu alloys. <i>Technical Physics</i> , 2016, 61, 554-562.	0.2	11
30	Specific features of the electronic properties of Ti ₅₀ Ni ₅₀ â€“x Cu x alloys with the shape memory effect. <i>Physics of the Solid State</i> , 2016, 58, 1108-1114.	0.2	0
31	Structural and phase transformations and properties of TiNiâ€“TiCu quasi-binary alloys. <i>Technical Physics Letters</i> , 2016, 42, 376-379.	0.2	2
32	Effect of titanium alloying on the structure, the phase composition, and the thermoelastic martensitic transformations in ternary Niâ€“Mnâ€“Ti alloys. <i>Technical Physics</i> , 2015, 60, 1330-1334.	0.2	7
33	Specific Features of the Phase Composition and Structure of a Highâ€“Strength Multiâ€“Component Feâ€“Wâ€“Moâ€“Crâ€“Vâ€“Siâ€“Mnâ€“C Steel Synthesized via Laser Remelting. <i>Advanced Engineering Materials</i> , 2015, 17, 1504-1510.		3
34	Magnetic and structural phase transitions and the tetragonality of thermoelastic martensite in quasi-binary Heusler alloys Ni ₂ + x Mn ₁ â€“ x Ga. <i>Physics of the Solid State</i> , 2015, 57, 45-52.	0.2	4
35	Effect of aluminum alloying on the structure, the phase composition, and the thermoelastic martensitic transformations in ternary Ni-Mn-Al alloys. <i>Technical Physics</i> , 2015, 60, 1000-1004.	0.2	5
36	Structural and phase transformations in quasi-binary TiNiâ€“TiCu alloys with thermomechanical shape-memory effects. <i>Physics of Metals and Metallography</i> , 2015, 116, 1221-1233.	0.3	8

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37	Peculiarities of the phase composition and structure of the high-entropy FeWMoCrVSiMnC multicomponent steel. <i>Technical Physics</i> , 2015, 60, 1088-1092.	0.2	2
38	Structure and physical properties of the high-entropy AlCrFeCoNiCu alloy rapidly quenched from the melt. <i>Physics of the Solid State</i> , 2015, 57, 1616-1626.	0.2	7
39	Structure and phase transformations in TiNiFe ternary alloys subjected to plastic deformation by high-pressure torsion and subsequent heat treatment. <i>Physics of Metals and Metallography</i> , 2014, 115, 365-379.	0.3	8
40	Formation of nanostructured states in ternary TiNiFe-based shape memory alloys during megaplastic deformation and subsequent heat treatment. <i>Technical Physics</i> , 2014, 59, 685-691.	0.2	2
41	Effect of heat treatment on structural and phase transformations in the Ti _{49.5} Ni _{50.5} alloy amorphized by high-pressure torsion. <i>Physics of Metals and Metallography</i> , 2013, 114, 488-502.	0.3	5
42	High-temperature shape memory effect and the B2-L10 thermoelastic martensitic transformation in Ni-Mn intermetallics. <i>Technical Physics</i> , 2013, 58, 878-887.	0.2	15
43	On the effect of cobalt doping on thermoelastic martensitic transformations in ferromagnetic Heusler Ni _{50-x} Co _x Mn ₂₉ Ga ₂₁ magnetically controlled shape memory alloys. <i>Technical Physics Letters</i> , 2013, 39, 737-740.	0.2	2
44	Effect of cobalt doping on thermoelastic martensitic transformations and physical properties of magnetic shape memory alloys Ni _{50-x} Co _x Mn ₂₉ Ga ₂₁ . <i>Physics of the Solid State</i> , 2013, 55, 2413-2421.	0.2	7
45	Crystal structure and physical properties of magnetic shape memory alloys Ni _{50-x} Cu _x Mn ₂₉ Ga ₂₁ . <i>Physics of the Solid State</i> , 2013, 55, 2471-2478.	0.2	6
46	Thermo- and Deformation Induced Martensitic Transformations in Binary TiNi-Based Alloys Subjected to Severe Plastic Deformation. <i>Materials Science Forum</i> , 2013, 738-739, 530-534.	0.3	3
47	Baroelastic shape memory effects in titanium nickelide alloys subjected to plastic deformation under high pressure. <i>Technical Physics</i> , 2012, 57, 1106-1114.	0.2	10
48	Phase and structural transformations in the Ti _{49.5} Ni _{50.5} alloy with a shape-memory effect during torsion under high pressure. <i>Physics of Metals and Metallography</i> , 2012, 113, 256-270.	0.3	20
49	Formation of nanocrystalline structure in the amorphous Ti ₅₀ Ni ₂₅ Cu ₂₅ alloy upon severe thermomechanical treatment and the size effect of the thermoelastic martensitic B2 → B19 transformation. <i>Physics of Metals and Metallography</i> , 2012, 113, 271-282.	0.3	24
50	Formation of the nanocrystalline structure in the Ti ₅₀ Ni ₂₅ Cu ₂₅ shape-memory alloy under severe thermomechanical treatment. <i>Physics of Metals and Metallography</i> , 2011, 112, 603-612.	0.3	11
51	Effect of plastic deformation on physical properties and structure of the shape memory alloy Ti _{49.5} Ni _{50.5} . <i>Physics of the Solid State</i> , 2011, 53, 1397-1403.	0.2	4
52	Effect of severe plastic deformation on the phase and structural transformations and mechanical properties of metastable austenitic Ti-Ni alloys. <i>Russian Metallurgy (Metally)</i> , 2010, 2010, 296-300.	0.1	3
53	On the nature of anomalously high plasticity of high-strength titanium nickelide alloys with shape-memory effects: II. Mechanisms of plastic deformation upon isothermal loading. <i>Physics of Metals and Metallography</i> , 2009, 107, 298-311.	0.3	20
54	Application of severe plastic deformation by torsion to form amorphous and nanocrystalline states in large-size TiNi alloy sample. <i>Physics of Metals and Metallography</i> , 2009, 108, 131-138.	0.3	23

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55	Effect of heat treatment on the structural and phase transformations and mechanical properties of TiNi alloy subjected to severe plastic deformation by torsion. <i>Physics of Metals and Metallography</i> , 2009, 108, 556-568.	0.3	45
56	On the nature of anomalously high plasticity of high-strength titanium nickelide alloys with shape-memory effects: I. Initial structure and mechanical properties. <i>Physics of Metals and Metallography</i> , 2008, 106, 520-530.	0.3	28
57	Effect of severe plastic deformation by torsion on the structure and properties of TiNi-based alloys with shape memory effects. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2008, 72, 550-552.	0.1	3
58	Particularités de la structure et des transformations de phase dans les alliages à mémoire de forme à base de TiNi après déformation plastique intense. <i>Annales De Chimie: Science Des Materiaux</i> , 2002, 27, 77-88.	0.2	86
59	Electrical studies of surface reconstruction resulting from chalcogen evaporation at the Ag ₂ X/Vacuum interface (X=S, Se). <i>Ionics</i> , 2000, 6, 235-238.	1.2	0