

Anna Kosogor

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Hysteretic and anhysteretic tensile stress-strain behavior of Ni-Fe(Co)-Ga single crystal: Experiment and theory. <i>Acta Materialia</i> , 2014, 66, 79-85.	7.9	36
2	Transformation Volume Effects on Shape Memory Alloys. <i>Metals</i> , 2013, 3, 237-282.	2.3	33
3	Destabilization of Ni-Mn-Ga martensite: Experiment and theory. <i>Acta Materialia</i> , 2012, 60, 1587-1593.	7.9	29
4	Theoretical description of magnetocaloric effect in the shape memory alloy exhibiting metamagnetic behavior. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	24
5	Stabilizing internal stress as the thermodynamic factor of martensite aging effects. <i>Acta Materialia</i> , 2011, 59, 3593-3601.	7.9	18
6	Magnetic and nonmagnetic contributions to the heat capacity of metamagnetic shape memory alloy. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	17
7	The Symmetry-Conforming Theory of Martensite Aging. <i>Materials Science Forum</i> , 2009, 635, 13-19.	0.3	15
8	Internal pressure as a key thermodynamic factor to obtain high-temperature superelasticity of shape memory alloys. <i>Materials Letters</i> , 2018, 210, 252-254.	2.6	10
9	Magnetocaloric Effect Caused by Paramagnetic Austenite-Ferromagnetic Martensite Phase Transformation. <i>Metals</i> , 2019, 9, 11.	2.3	9
10	Modelling of hysteresis loops taken during the stress- and temperature-induced martensitic transformations. <i>Phase Transitions</i> , 2013, 86, 796-810.	1.3	8
11	Influence of volume magnetostriction on the thermodynamic properties of Ni-Mn-Ga shape memory alloys. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	6
12	Impact of the volume change on the ageing effects in Cu-Al-Ni martensite: experiment and theory. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 335402.	1.8	5
13	Inverse magnetocaloric effect in the solids undergoing ferromagnetic - antiferromagnetic phase transition: Landau theory applied to Fe-Rh alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 517, 167269.	2.3	5
14	Narrowing of hysteresis of cubic-tetragonal martensitic transformation by weak axial stressing of ferromagnetic shape memory alloy. <i>Journal of Applied Physics</i> , 2016, 119, 224903.	2.5	5
15	Influence of aging and thermomechanical cycling on the magnetostriction and magnetic shape memory effect in martensitic alloy. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 395002.	2.8	3
16	Landau theory for the phase transitions of interstitial hydrogen in strained vanadium. <i>Physical Review B</i> , 2014, 89, .	3.2	2
17	Martensitic transformation in shape memory crystal with defects: Monte Carlo simulations and Landau theory. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2309-2316.	1.5	2
18	Influence of incorporated nanoparticles on superelastic behavior of shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 776, 139025.	5.6	2

#	ARTICLE	IF	CITATIONS
19	Landau theory of ferroelastic phase transitions: Application to martensitic phase transformations. <i>Low Temperature Physics</i> , 2022, 48, 206-211.	0.6	2
20	Temperature-dependent magnetostriction as the key factor for martensite reorientation in magnetic field. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 355005.	2.8	1
21	Entropy Change Caused by Martensitic Transformations of Ferromagnetic Shape Memory Alloys. <i>Metals</i> , 2017, 7, 509.	2.3	1
22	Theory of giant magnetocaloric effect in the shape memory alloy undergoing magnetostuctural phase transition. <i>Low Temperature Physics</i> , 2020, 46, 764-767.	0.6	1
23	Determination of magnetic, electronic and lattice contributions to low-temperature specific heat: Procedure and its application to metamagnetic alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 541, 168549.	2.3	1
24	Influence of different mechanisms of martensite aging on the features of martensitic transformations. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2758-2761.	1.5	0
25	Damping Properties of Magnetically Ordered Shape Memory Alloys. <i>Materials Science Forum</i> , 2016, 845, 77-82.	0.3	0
26	Influence of Ferroelastic Phase Transitions on the Spatial Distribution of Point Defects in Real Solids. <i>Journal of Nano- and Electronic Physics</i> , 2018, 10, 03031-1-03031-5.	0.5	0
27	Magnetocaloric Effect in Metamagnetic Shape Memory Alloy. <i>Journal of Nano- and Electronic Physics</i> , 2020, 12, 01018-1-01018-4.	0.5	0