S V Taskaev

List of Publications by Year
in descending order

113 papers	1,860 citations	304743 22 h-index	315739 38 g-index
115 all docs	115 docs citations	115 times ranked	1181 citing authors

#	Article	IF	Citations
1	Phase transitions inNi2+xMn1âˆ’xGawith a high Ni excess. Physical Review B, 2005, 72, .	3.2	176
2	Monte Carlo study of the influence of antiferromagnetic exchange interactions on the phase transitions of ferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Ni-Mn-</mml:mtext><mml:mi>X</mml:mi></mml:mrow></mml:math>alloys<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
19	The new extremely substituted high entropy (Ba,Sr,Ca,La)Fe6-x(Al,Ti,Cr,Ga,In,Cu,W)xO19 microcrystals with magnetoplumbite structure. Ceramics International, 2020, 46, 9656-9660.	4.8	24
20	Route of magnetoimpedance and domain walls dynamics optimization in Co-based microwires. Journal of Alloys and Compounds, 2020, 830, 154576.	5.5	24
21	Polysubstituted High-Entropy [LaNd](Cr0.2Mn0.2Fe0.2Co0.2Ni0.2)O3 Perovskites: Correlation of the Electrical and Magnetic Properties. Nanomaterials, 2021, 11, 1014.	4.1	24
22	Effect of severe plastic deformation on the specific heat and magnetic properties of cold rolled Gd sheets. Journal of Applied Physics, 2015, 117, .	2.5	23
23	Influence of thermal treatment on magnetocaloric properties of Gd cold rolled ribbons. Journal of Applied Physics, 2013, 113, 17A933.	2.5	22
24	Stress dependence of the magnetic properties of glass-coated amorphous microwires. Journal of Alloys and Compounds, 2019, 789, 201-208.	5.5	22
25	Extremely Polysubstituted Magnetic Material Based on Magnetoplumbite with a Hexagonal Structure: Synthesis, Structure, Properties, Prospects. Nanomaterials, 2019, 9, 559.	4.1	22
26	Magnetocaloric effect in Ni _{2.19} Mn _{0.81} Ga Heusler alloys. International Journal of Applied Electromagnetics and Mechanics, 2006, 23, 65-69.	0.6	19
27	Plastically deformed Gd-X (Xâ€¯=â€¯Y, In, Zr, Ga, B) solid solutions for magnetocaloric regenerator of parallel plate geometry. Journal of Alloys and Compounds, 2018, 754, 207-214.	5.5	19
28	Creation and Magnetic Study of Ferrites with Magnetoplumbite Structure Multisubstituted by Al3+, Cr3+, Ga3+, and In3+ Cations. Nanomaterials, 2022, 12, 1306.	4.1	18
29	Effect of stress-induced anisotropy on high frequency magnetoimpedance effect of Fe and Co-rich glass-coated microwires. Journal of Alloys and Compounds, 2018, 735, 1818-1825.	5.5	17
30	The effect of plastic deformation on magnetic and magnetocaloric properties of Gd-B alloys. Journal of Magnetism and Magnetic Materials, 2017, 442, 360-363.	2.3	16
31	A-Site Cation Size Effect on Structure and Magnetic Properties of Sm(Eu,Gd)Cr0.2Mn0.2Fe0.2Co0.2Ni0.2O3 High-Entropy Solid Solutions. Nanomaterials, 2022, 12, 36.	4.1	15
32	Monte Carlo calculations of the phase transformations and the magnetocaloric properties in Heusler Niâ€“Mnâ€“Ga alloys. Journal of Magnetism and Magnetic Materials, 2010, 322, 1597-1600.	2.3	14
33	Theoretical treatment and direct measurements of magnetocaloriceffect in Ni2.19â^'xFexMn0.81Ga Heusler alloys. Journal of Magnetism and Magnetic Materials, 2013, 343, 6-12.	2.3	14
34	Tuning magnetic exchange interactions to enhance magnetocaloric effect in Ni50Mn34In16 Heusler alloy: Monte Carlo and ab initio studies. International Journal of Refrigeration, 2014, 37, 273-280.	3.4	14
35	First-order martensitic transformation in Heusler-type glass-coated microwires. Applied Physics Letters, 2017, 111, 242403.	3.3	14
36	Controlling the domain wall dynamics in Fe-, Ni- and Co-based magnetic microwires. Journal of Alloys and Compounds, 2020, 834, 155170.	5.5	14

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37	Correlation of the Fe content and entropy state in multiple substituted hexagonal ferrites with magnetoplumbite structure. Ceramics International, 2021, 47, 17684-17692.	4.8	14
38	Analysis of the Magnetocaloric Effect in Heusler Alloys: Study of Ni50CoMn36Sn13 by Calorimetric Techniques. Entropy, 2015, 17, 1236-1252.	2.2	13
39	Magnetocaloric effect in cold rolled foils of Gd100â^'In (xâ€¯=â€¯0, 1, 3). Journal of Magnetism and Magnetic Materials, 2018, 459, 46-48.	2.3	13
40	Phase transitions in Niâ€“Mnâ€“Ga alloys with the account of crystal lattice modulation. Journal of Magnetism and Magnetic Materials, 2007, 316, e591-e594.	2.3	12
41	Effects of severe plastic deformation on the magnetic properties of terbium. AIP Advances, 2018, 8, 048103.	1.3	12
42	Effect of disorder on magnetic properties and martensitic transformation of Co-doped Ni-Mn-Al Heusler alloy. Intermetallics, 2018, 102, 132-139.	3.9	12
43	Optimization of high frequency magnetoimpedance effect of Fe-rich microwires by stress-annealing. Intermetallics, 2018, 94, 92-98.	3.9	11
44	Reprogrammable Soft Swimmers for Minimally Invasive Thrombus Extraction. ACS Applied Materials & Interfaces, 2022, 14, 23896-23908.	8.0	11
45	Title is missing!. Physics-Uspekhi, 2006, 49, 855.	2.2	10
46	Influence of severe plastic deformation on magnetocaloric effect of dysprosium. Journal of Magnetism and Magnetic Materials, 2019, 479, 307-311.	2.3	10
47	Magnetic and transport properties of as-prepared Mn2CoGa. Journal of Magnetism and Magnetic Materials, 2019, 470, 55-58.	2.3	10
48	Comparative Toxicity of Fly Ash: An In Vitro Study. Molecules, 2021, 26, 1926.	3.8	10
49	Magnetocaloric effect in the Laves-phase<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Ho</mml:mi></mml:mrow><mml:mrow> in high magnetic fields. Physical Review Materials, 2021, 5, .	2.4	10
50	Phase diagrams of Heusler alloys with inversion of the exchange interaction. JETP Letters, 2007, 85, 560-564.	1.4	9
51	Magnetocaloric properties of Ni2+xMn1â^'xGa with coupled magnetostructural phase transition. Journal of Applied Physics, 2020, 127, .	2.5	9
52	Evaluation of thermomagnetic generation performance of classic magnetocaloric materials for harvesting low-grade waste heat. Applied Energy, 2022, 306, 117999.	10.1	9
53	Thermomechanical properties and two-way shape memory effect in melt spun Ni57Mn21Al21Si1 ribbons. Journal of Alloys and Compounds, 2017, 696, 310-314.	5.5	8
54	Heteroleptic copper(II) complexes with 2-bromo-5-methylpyridine: Structures, features of non-covalent interactions and magnetic behavior. Inorganica Chimica Acta, 2020, 502, 119333.	2.4	8

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55	Thermomagnetic Generation Performance of Gd and La(Fe, Si)₁₃H_y/In Material for Lowâ€Grade Waste Heat Recovery. Advanced Sustainable Systems, 2021, 5, 2000234.	5.3	8
56	Phase Diagrams of Ni₂MnX (X = In, Sn, Sb) Heusler Alloys with Inversion of Exchange Interaction. Materials Science Forum, 0, 583, 131-146.	0.3	7
57	Theoretical Modeling of Magnetocaloric Effect in Heusler Ni-Mn-In Alloy by Monte Carlo Study. Materials Science Forum, 0, 635, 137-142.	0.3	7
58	Monte Carlo modeling of exchange bias effect in Ni₅₀Mn_{25+x}Sb_{25â^'x}Heusler alloys. Journal of Physics: Conference Series, 2011, 303, 012084.	0.4	7
59	The Influence of Cold Rolling on Magnetocaloric Properties of Gd_{100-x}Y_x (x = 0, 5, 10, 15) Alloys. Solid State Phenomena, 0, 233-234, 238-242.	0.3	7
60	Direct and inverse magnetocaloric effect in Ni1.81Mn1.64In0.55, Ni1.73Mn1.80In0.47, and Ni1.72Mn1.51In0.49Co0.28 Heusler alloys. Journal of Communications Technology and Electronics, 2016, 61, 1129-1138.	0.5	7
61	Influence of V Doping on the Thermoelectric Properties of Fe2Ti1 â€“xVxSn Heusler Alloys. Semiconductors, 2019, 53, 768-771.	0.5	7
62	Impact of Al3+ ions on magnetic and microwave properties of BaM:Ti hexaferrites. Journal of Materials Research and Technology, 2021, 11, 2235-2245.	5.8	7
63	Magnetic Refrigeration: From Theory to Applications. , 2022, , 407-417.		7
64	Low-melting metal bonded MMâ€²X/In composite with largely enhanced mechanical property and anisotropic negative thermal expansion. Acta Materialia, 2022, 229, 117830.	7.9	7
65	The phase diagrams of Niâ€“Mnâ€“Ga alloys in the magnetic field. Journal of Magnetism and Magnetic Materials, 2007, 313, 312-316.	2.3	6
66	Phase transitions in Heusler alloys with exchange inversion. Journal of Magnetism and Magnetic Materials, 2008, 320, e175-e178.	2.3	6
67	Large exchange bias in polycrystalline ribbons of Ni56Mn21Al22Si1. Journal of Magnetism and Magnetic Materials, 2015, 394, 143-147.	2.3	6
68	Micromagnetic analysis of spin-reorientation transitions. The role of magnetic domain structure. Physica B: Condensed Matter, 2015, 478, 12-16.	2.7	6
69	Magnetic Properties of Ternary Feâ€“Niâ€“Ti Alloys After Severe Plastic Deformation. IEEE Magnetics Letters, 2020, 11, 1-4.	1.1	6
70	Shape anisotropic magnetic thrombolytic actuators: synthesis and systematic behavior study. Journal of Materials Chemistry B, 2021, 9, 4941-4955.	5.8	6
71	Magnetic and magnetocaloric properties of as-cast Gd2In. Letters on Materials, 2021, 11, 104-108.	0.7	6
72	New Heusler alloys with a metamagnetostructural phase transition. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 564-568.	0.6	5

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73	Development of iron-rich microwires with a unique combination of magnetic properties. Scripta Materialia, 2021, 195, 113726.	5.2	5
74	Martensitic and magnetic domain structures in polycrystalline shape memory alloys Ni _{2+x} Mn _{1-x} Ga. International Journal of Applied Electromagnetics and Mechanics, 2004, 19, 175-178.	0.6	4
75	Experimental Study of Magnetocaloric Effect in Ni-Fe-Mn-Ga and Ni-Co-Mn-Ga Heusler Alloys. Materials Science Forum, 0, 738-739, 456-460.	0.3	4
76	Influence of Severe Plastic Deformation on Magnetic Properties of Fe48Ni48Zr4, Fe49.5Co16.5B33Ta and Co80Zr16B4 Alloys. Physics Procedia, 2015, 75, 1404-1409.	1.2	4
77	Magnetic Properties of Nd and Sm Rare-Earth Metals After Severe Plastic Deformation. IEEE Magnetics Letters, 2016, 7, 1-4.	1.1	4
78	Magnetic properties and magnetocaloric effect in Dy100-xYx solid solutions. AIP Advances, 2021, 11, .	1.3	4
79	Influence of Multi-Axial Isothermal Forging on the Stability of Martensitic Transformation in a Heusler Ni-Mn-Ga Alloy. Transactions of the Indian Institute of Metals, 2021, 74, 2481-2489.	1.5	4
80	Theoretical Approach to Investigation of the Magnetic and Magnetocaloric Properties of Heusler Niâ€“Mnâ€“Ga Alloys. Physics of the Solid State, 2020, 62, 785-792.	0.6	4
81	The phase diagram of Niâ€“Mnâ€“Ga alloys with account of crystal lattice modulation and external magnetic field. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 218-222.	5.6	3
82	Magnetocaloric Properties of Severe Plastic Deformed Gd100-xYxAlloys. Acta Physica Polonica A, 2015, 127, 641-643.	0.5	3
83	Magnetocaloric Properties of Cold Rolled Gd_{100-x}Zr_x(x = 0, 1, 2,) Tj ETQq1 1 0.784314 rgBT	0.3	3
84	The Effect of Plastic Deformation on Magnetic and Magnetocaloric Properties of Gd₉₀Ga₁₀ Alloy. Materials Science Forum, 0, 845, 56-60.	0.3	3
85	Novel electrical transport properties of native Fe-Nb oxide layers leading to unilateral conductivity of aÂrefractory metallic glass. Heliyon, 2019, 5, e01424.	3.2	3
86	Features of the Thermolysis of Li, Na, and Cd Maleates. Russian Journal of Physical Chemistry A, 2020, 94, 1311-1318.	0.6	3
87	Magnetocaloric Effect in Ni-Mn-Ga and Ni-Co-Mn-In Heusler Alloys. Materials Research Society Symposia Proceedings, 2009, 1200, 69.	0.1	2
88	Monte Carlo Study of Magnetostructural Phase Transitions in Ni₅₀Mn_{25+x}Sb_{25-x} Heusler Alloys. Solid State Phenomena, 2009, 154, 139-144.	0.3	2
89	The modeling of phase diagrams and premartensitic effects in Heusler Niâ€“Mnâ€“Ga alloy by Monte Carlo method. Physics Procedia, 2010, 10, 132-137.	1.2	2
90	The Magnetocaloric Effect in Ni-Mn-X (X=Ga, in) Heusler Alloys and Manganites with Magnetic Transition close to Room Temperature. Solid State Phenomena, 2010, 168-169, 165-168.	0.3	2

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91	Magnetostriction of ferromagnetic shape memory alloy Ni2.27Mn0.73Ga studied in magnetic fields up to 10â€T. Journal of Alloys and Compounds, 2018, 741, 689-692.	5.5	2
92	Statistical model for the martensitic transformation simulation in Heusler alloys. Physica B: Condensed Matter, 2020, 578, 411874.	2.7	2
93	Structural properties of Fe49Ni49Ti2 alloy deformed by high pressure torsion. AIP Advances, 2021, 11, 025311.	1.3	2
94	Magnetocaloric Effect and Magnetization of Gadolinium in Quasi-Stationary and Pulsed Magnetic Fields up to 40 kOe. Physics of Metals and Metallography, 2022, 123, 419-423.	1.0	2
95	Monte-Carlo Calculation of the Magnetocaloric Effect in Ni-Mn-Ga Alloys. Solid State Phenomena, 0, 152-153, 493-496.	0.3	1
96	Theoretical model of the coupled magnetostructural phase transitions in Heusler Ni-Mn-In alloys by Monte Carlo simulation. Journal of Physics: Conference Series, 2010, 200, 092004.	0.4	1
97	Monte Carlo study of magnetocaloric properties of Ni-Mn-Ga Heusler alloys. Journal of Physics: Conference Series, 2010, 200, 032008.	0.4	1
98	Ab initio study of magnetic properties of Fe-Mn-Al Heusler alloys. Materials Research Society Symposia Proceedings, 2013, 1581, 1.	0.1	1
99	Ab initio investigation of the structural and magnetic properties of Ni-Pt-Mn-Ga alloys. Materials Research Society Symposia Proceedings, 2013, 1581, 1.	0.1	1
100	Influence of annealing on structural, magnetic and transport properties of melt spun ribbons of Co-Ni-Al alloy. Materials Today: Proceedings, 2017, 4, 4707-4711.	1.8	1
101	Magnetocaloric effectin polycrystalline DyAl2. Chelyabinsk Physical and Mathematical Journal, 2020, 5, 618-626.	0.1	1
102	Influence of external stress along [001] axis on phase diagram of cubic ferromagnet with shape memory effect. International Journal of Applied Electromagnetics and Mechanics, 2004, 19, 421-425.	0.6	0
103	Kinetics and relaxation processes in Ni-Mn-Ga alloys under an external stress and a magnetic field. International Journal of Applied Electromagnetics and Mechanics, 2005, 21, 11-19.	0.6	0
104	The phase diagram of a cubic ferromagnet with shape memory effect under an external stress along [110] axis. International Journal of Applied Electromagnetics and Mechanics, 2007, 25, 43-47.	0.6	0
105	Magnetic shape memory and giant magnetocaloric effect in Heusler alloys. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 527-528.	0.6	0
106	Study of Magnetocaloric Properties of Ni-Mn-X (X = Ga, In) Heusler Alloys by Monte Carlo Technique. Materials Research Society Symposia Proceedings, 2009, 1200, 96.	0.1	0
107	Monte Carlo Simulations of the Exchange Bias Effect in Heusler Ni50Mn37.5Sb12.5 Alloys Using Real Unit Cell. Materials Research Society Symposia Proceedings, 2011, 1310, 1.	0.1	0
108	Modeling of the Magnetocaloric Effect in Heusler Ni-Mn-X (X = In, Sn, Sb) Alloys Using Antiferromagnetic Five-State Potts Model with Competing Interactions. Materials Research Society Symposia Proceedings, 2011, 1310, 1.	0.1	0

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109	Phase diagrams of Ni2+xMn1-xGa Heusler alloys from Hubbard Hamiltonian with account of Jahn-Teller effect. Materials Research Society Symposia Proceedings, 2011, 1310, 1.	0.1	0
110	The Supercell Scaling Investigation of Magnetic Properties in Ni-Mn-X (X=Ga, In, Sn, Sb) Heusler Alloys by Means of First-principles Methods. Materials Research Society Symposia Proceedings, 2013, 1581, 1.	0.1	0
111	Structural and mechanical properties of melt spun ribbons of Fe 43.5 Mn 34 Al 15 Ni 7.5 Heusler alloy. Materials Today: Proceedings, 2017, 4, 4702-4706.	1.8	0
112	Low Temperature Magnetocaloric Materials for Cryogenic Gas Liquefaction by Magnetic Cooling Technique. Key Engineering Materials, 2020, 833, 176-180.	0.4	0
113	Study of the Chelyabinsk Meteorite Magnetism by Nuclear Gamma-Resonance Spectroscopy. Crystallography Reports, 2020, 65, 333-337.	0.6	0