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	Magnetic Refrigeration: From Theory to Applications. , 2022, , 407-417.		7
2	Evaluation of thermomagnetic generation performance of classic magnetocaloric materials for harvesting low-grade waste heat. Applied Energy, 2022, 306, 117999.	10.1	9
3	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
4	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
5	Creation and Magnetic Study of Ferrites with Magnetoplumbite Structure Multisubstituted by Al3+, Cr3+, Ga3+, and In3+ Cations. Nanomaterials, 2022, 12, 1306.	4.1	18
6	Reprogrammable Soft Swimmers for Minimally Invasive Thrombus Extraction. ACS Applied Materials & Interfaces, 2022, 14, 23896-23908.	8.0	11
7	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
8	Engineering of magnetic properties and magnetoimpedance effect in Fe-rich microwires by reversible and irreversible stress-annealing anisotropy. Journal of Alloys and Compounds, 2021, 855, 157460.	5.5	29
9	Shape anisotropic magnetic thrombolytic actuators: synthesis and systematic behavior study. Journal of Materials Chemistry B, 2021, 9, 4941-4955.	5.8	6
10	Magnetic properties and magnetocaloric effect in Dy100-xYx solid solutions. AIP Advances, 2021, 11, .	1.3	4
11	Magnetic and magnetocaloric properties of as-cast Gd2In. Letters on Materials, 2021, 11, 104-108.	0.7	6
12	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
13	Structural properties of Fe49Ni49Ti2 alloy deformed by high pressure torsion. AIP Advances, 2021, 11, 025311.	1.3	2
14	Comparative Toxicity of Fly Ash: An In Vitro Study. Molecules, 2021, 26, 1926.	3.8	10
15	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
16	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
17	Development of iron-rich microwires with a unique combination of magnetic properties. Scripta Materialia, 2021, 195, 113726.	5.2	5
18	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

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19	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
20	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><m in high magnetic fields. Physical Review Materials, 2021, 5, .	2.4	10
21	Giant magnetoimpedance in rapidly quenched materials. Journal of Alloys and Compounds, 2020, 814, 152225.	5.5	59
22	The effect of annealing on magnetic properties of â€œThickâ€•microwires. Journal of Alloys and Compounds, 2020, 831, 150992.	5.5	27
23	Statistical model for the martensitic transformation simulation in Heusler alloys. Physica B: Condensed Matter, 2020, 578, 411874.	2.7	2
24	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
25	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
26	Features of the Thermolysis of Li, Na, and Cd Maleates. Russian Journal of Physical Chemistry A, 2020, 94, 1311-1318.	0.6	3
27	Low Temperature Magnetocaloric Materials for Cryogenic Gas Liquefaction by Magnetic Cooling Technique. Key Engineering Materials, 2020, 833, 176-180.	0.4	0
28	Magnetocaloric properties of Ni2+xMn1â^'xGa with coupled magnetostructural phase transition. Journal of Applied Physics, 2020, 127, .	2.5	9
29	Correlation between entropy state, crystal structure, magnetic and electrical properties in M-type Ba-hexaferrites. Journal of the European Ceramic Society, 2020, 40, 4022-4028.	5.7	52
30	Study of the Chelyabinsk Meteorite Magnetism by Nuclear Gamma-Resonance Spectroscopy. Crystallography Reports, 2020, 65, 333-337.	0.6	0
31	Magnetocaloric effect in GdNi2 for cryogenic gas liquefaction studied in magnetic fields up to 50â€‰T. Journal of Applied Physics, 2020, 127, .	2.5	25
32	Magnetic Properties of Ternary Feâ€“Niâ€“Ti Alloys After Severe Plastic Deformation. IEEE Magnetics Letters, 2020, 11, 1-4.	1.1	6
33	Route of magnetoimpedance and domain walls dynamics optimization in Co-based microwires. Journal of Alloys and Compounds, 2020, 830, 154576.	5.5	24
34	Controlling the domain wall dynamics in Fe-, Ni- and Co-based magnetic microwires. Journal of Alloys and Compounds, 2020, 834, 155170.	5.5	14
35	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
36	Magnetocaloric effectin polycrystalline DyAl2. Chelyabinsk Physical and Mathematical Journal, 2020, 5, 618-626.	0.1	1

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37	Engineering of Magnetic Softness and Domain Wall Dynamics of Fe-rich Amorphous Microwires by Stress- induced Magnetic Anisotropy. Scientific Reports, 2019, 9, 12427.	3.3	28
38	Influence of V Doping on the Thermoelectric Properties of Fe2Ti1 â€“xVxSn Heusler Alloys. Semiconductors, 2019, 53, 768-771.	0.5	7
39	Influence of severe plastic deformation on magnetocaloric effect of dysprosium. Journal of Magnetism and Magnetic Materials, 2019, 479, 307-311.	2.3	10
40	Stress dependence of the magnetic properties of glass-coated amorphous microwires. Journal of Alloys and Compounds, 2019, 789, 201-208.	5.5	22
41	Extremely Polysubstituted Magnetic Material Based on Magnetoplumbite with a Hexagonal Structure: Synthesis, Structure, Properties, Prospects. Nanomaterials, 2019, 9, 559.	4.1	22
42	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
43	Smart composites with embedded magnetic microwire inclusions allowing non-contact stresses and temperature monitoring. Composites Part A: Applied Science and Manufacturing, 2019, 120, 12-20.	7.6	44
44	Magnetic and transport properties of as-prepared Mn2CoGa. Journal of Magnetism and Magnetic Materials, 2019, 470, 55-58.	2.3	10
45	Tailoring of magnetoimpedance effect and magnetic softness of Fe-rich glass-coated microwires by stress- annealing. Scientific Reports, 2018, 8, 3202.	3.3	69
46	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
47	Optimization of high frequency magnetoimpedance effect of Fe-rich microwires by stress-annealing. Intermetallics, 2018, 94, 92-98.	3.9	11
48	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
49	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
50	Effects of severe plastic deformation on the magnetic properties of terbium. AIP Advances, 2018, 8, 048103.	1.3	12
51	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
52	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
53	Grading the magnetic anisotropy and engineering the domain wall dynamics in Fe-rich microwires by stress-annealing. Acta Materialia, 2018, 155, 279-285.	7.9	43
54	First-order martensitic transformation in Heusler-type glass-coated microwires. Applied Physics Letters, 2017, 111, 242403.	3.3	14

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55	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
56	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
57	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
58	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
59	Magnetocaloric effect in some magnetic materials in alternating magnetic fields up to 22ÂHz. Journal of Alloys and Compounds, 2016, 676, 601-605.	5.5	50
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	Magnetic Properties of Nd and Sm Rare-Earth Metals After Severe Plastic Deformation. IEEE Magnetics Letters, 2016, 7, 1-4.	1.1	4
62	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
63	Analysis of the Magnetocaloric Effect in Heusler Alloys: Study of Ni50CoMn36Sn13 by Calorimetric Techniques. Entropy, 2015, 17, 1236-1252.	2.2	13
64	Large exchange bias in polycrystalline ribbons of Ni56Mn21Al22Si1. Journal of Magnetism and Magnetic Materials, 2015, 394, 143-147.	2.3	6
65	Magnetocaloric Properties of Severe Plastic Deformed Gd100-xYxAlloys. Acta Physica Polonica A, 2015, 127, 641-643.	0.5	3
66	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
67	Micromagnetic analysis of spin-reorientation transitions. The role of magnetic domain structure. Physica B: Condensed Matter, 2015, 478, 12-16.	2.7	6
68	Magnetocaloric Properties of Cold Rolled Gd_{100-x}Zr_x(x = 0, 1, 2,) Tj ETQq0 0 0 rgBT /Overlock 1	0.3	3
69	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
70	Quaternary Niâ€“Mnâ€“Inâ€“YHeusler alloys: a way to achieve materials with better magnetocaloric properties?. Journal Physics D: Applied Physics, 2013, 46, 305003.	2.8	24
71	Giant induced anisotropy ruins the magnetocaloric effect in gadolinium. Journal of Magnetism and Magnetic Materials, 2013, 331, 33-36.	2.3	34
72	Influence of thermal treatment on magnetocaloric properties of Gd cold rolled ribbons. Journal of Applied Physics, 2013, 113, 17A933.	2.5	22

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73	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
74	Ab initio study of magnetic properties of Fe-Mn-Al Heusler alloys. Materials Research Society Symposia Proceedings, 2013, 1581, 1.	0.1	1
75	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
76	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
77	Monte Carlo simulations of the magnetocaloric effect in magnetic Niâ€"Mnâ€"X (X = Ga, In) Heusler alloys. Journal Physics D: Applied Physics, 2011, 44, 064012.	2.8	62
78	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
79	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
80	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
81	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
82	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
83	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
84	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
85	First-principles and Monte Carlo study of magnetostructural transition and magnetocaloric properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ni</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Physical Review B, 2010, 81, .	3.2	119
86	Monte Carlo study of magnetocaloric properties of Ni-Mn-Ga Heusler alloys. Journal of Physics: Conference Series, 2010, 200, 032008.	0.4	1
87	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
88	Magnetocaloric Effect in Ni-Mn-Ga and Ni-Co-Mn-In Heusler Alloys. Materials Research Society Symposia Proceedings, 2009, 1200, 69.	0.1	2
89	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
90	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

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91	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
92	Phase transitions in Heusler alloys with exchange inversion. Journal of Magnetism and Magnetic Materials, 2008, 320, e175-e178.	2.3	6
93	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
94	New Heusler alloys with a metamagnetostructural phase transition. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 564-568.	0.6	5
95	Adiabatic temperature change at first-order magnetic phase transitions:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ni</mml:mtext></mml:mrow><mml:mrow><mml:mn>2.19</mml:mn>	3.2	59
96	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"		

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109	Monte-Carlo Calculation of the Magnetocaloric Effect in Ni-Mn-Ga Alloys. Solid State Phenomena, 0, 152-153, 493-496.	0.3	1
110	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
111	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
112	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
113	The Effect of Plastic Deformation on Magnetic and Magnetocaloric Properties of Gd₉₀Ga₁₀ Alloy. Materials Science Forum, 0, 845, 56-60.	0.3	3