Khovaylo Vladimir

List of Publications by Year
in descending order

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179 papers	4,405 citations	168829 31 h-index	145109 60 g-index
182 all docs	182 docs citations	182 times ranked	2732 citing authors

#	Article	IF	Citations
1	Transport and thermoelectric properties of Nb-doped FeV0.64Hf0.16Ti0.2Sb half-Heusler alloys synthesized by two ball milling regimes. Journal of Alloys and Compounds, 2022, 890, 161838.	2.8	19
2	Magnetic Refrigeration: From Theory to Applications. , 2022, , 407-417.		7
3	Enhanced Thermoelectric Performance of Bulk Bismuth Selenide: Synergistic Effect of Indium and Antimony Co-doping. ACS Sustainable Chemistry and Engineering, 2022, 10, 3862-3871.	3.2	12
4	Outstanding optical properties of thermally grown (Bi2Se3)1-x (Bi2Te3)x thin films. Materials Science in Semiconductor Processing, 2022, 143, 106557.	1.9	5
5	Exotic carbon microcrystals in meteoritic dust of the Chelyabinsk superbolide: experimental investigations and theoretical scenarios of their formation. European Physical Journal Plus, 2022, 137, .	1.2	3
6	Thermoelectric properties of Sm-doped BiCuSeO oxyselenides fabricated by two-step reactive sintering. Journal of Alloys and Compounds, 2022, 912, 165208.	2.8	10
7	Thermoelectric properties of Fe1.5TiSb1â^'Sn and Fe1.5Ti1â^'Y Sb Heusler alloys. Materials Today: Proceedings, 2021, 44, 3463-3466.	0.9	1
8	Effective decoupling of seebeck coefficient and the electrical conductivity through isovalent substitution of erbium in bismuth selenide thermoelectric material. Journal of Alloys and Compounds, 2021, 857, 157559.	2.8	18
9	Magnetic properties and magnetocaloric effect in Dy100-xYx solid solutions. AIP Advances, 2021, 11, .	0.6	4
10	Magnetic and magnetocaloric properties of as-cast Gd2In. Letters on Materials, 2021, 11, 104-108.	0.2	6
11	Ultralow Thermal Conductivity in Dualâ€Đoped nâ€Type Bi₂Te₃ Material for Enhanced Thermoelectric Properties. Advanced Electronic Materials, 2021, 7, 2000910.	2.6	11
12	Effects of spark plasma sintering on enhancing the thermoelectric performance of Hfâ€"Ti doped VFeSb half-Heusler alloys. Journal of Physics and Chemistry of Solids, 2021, 150, 109848.	1.9	13
13	Recent Developments and Progress on BiCuSeO Based Thermoelectric Materials. Nanobiotechnology Reports, 2021, 16, 294-307.	0.2	9
14	Mechanochemical synthesis and thermoelectric properties of TiFe2Sn Heusler alloy. Intermetallics, 2021, 133, 107195.	1.8	8
15	Effect of embedding of CrSi2 and Î²-FeSi2 nanocrystals into n-type conductivity silicon on the transport and thermal generation of carriers. Applied Surface Science, 2021, 566, 150620.	3.1	0
16	Mechanical and thermoelectric properties of FeVSb-based half-Heusler alloys. Journal of Alloys and Compounds, 2021, 886, 161308.	2.8	17
17	Structural, Electronic and Magnetic Properties of Mn2Co1-xVxZ (Z = Ga, Al) Heusler Alloys: An Insight from DFT Study. Magnetochemistry, 2021, 7, 159.	1.0	3
18	Ultrafast synthesis of Pb-doped BiCuSeO oxyselenides by high-energy ball milling. Materials Letters, 2020, 262, 127184.	1.3	3

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19	Enhanced thermoelectric figure of merit in Bi-containing Sb2Te3 bulk crystalline alloys. Journal of Physics and Chemistry of Solids, 2020, 138, 109262.	1.9	29
20	Transport and thermoelectric properties of Hf-doped FeVSb half-Heusler alloys. Journal of Alloys and Compounds, 2020, 820, 153413.	2.8	32
21	Optimizing the thermoelectric performance of FeVSb half-Heusler compound via Hfâ€“Ti double doping. Journal of Power Sources, 2020, 477, 228768.	4.0	23
22	Enhancing the thermoelectric performance of single-walled carbon nanotube-conducting polymer nanocomposites. Journal of Alloys and Compounds, 2020, 845, 156354.	2.8	13
23	Low Temperature Magnetocaloric Materials for Cryogenic Gas Liquefaction by Magnetic Cooling Technique. Key Engineering Materials, 2020, 833, 176-180.	0.4	0
24	Magnetocaloric properties of Ni2+xMn1â^'xGa with coupled magnetostructural phase transition. Journal of Applied Physics, 2020, 127, .	1.1	9
25	Role of magnetic and temperature cycling on martensite formation in Ni2.19Mn0.81Ga single crystals of a Heusler alloy. Journal of Applied Physics, 2020, 127, .	1.1	6
26	Magnetocaloric effect in GdNi2 for cryogenic gas liquefaction studied in magnetic fields up to 50â€‰T. Journal of Applied Physics, 2020, 127, .	1.1	25
27	Direct synthesis of p-type bulk BiCuSeO oxyselenides by reactive spark plasma sintering and related thermoelectric properties. Scripta Materialia, 2020, 187, 317-322.	2.6	9
28	Formation and thermoelectric properties of the n- and p-type silicon nanostructures with embedded GaSb nanocrystals. Japanese Journal of Applied Physics, 2020, 59, SFFB04.	0.8	1
29	The Evolution of Electron Dispersion in the Series of Rare-Earth Tritelluride Compounds Obtained from Their Charge-Density-Wave Properties and Susceptibility Calculations. Materials, 2019, 12, 2264.	1.3	2
30	Theoretical Modeling of the Thermoelectric Properties of Fe2Ti1 â€“xVxSn Heusler Alloys. Semiconductors, 2019, 53, 865-868.	0.2	1
31	Magnetic and transport properties of Mn2FeAl. Journal of Magnetism and Magnetic Materials, 2019, 478, 55-58.	1.0	24
32	Influence of V Doping on the Thermoelectric Properties of Fe2Ti1 â€“xVxSn Heusler Alloys. Semiconductors, 2019, 53, 768-771.	0.2	7
33	Influence of La Doping on the Transport Properties of Bi1 â€“xLaxCuSeO Oxyselenides. Semiconductors, 2019, 53, 624-627.	0.2	2
34	Effect of Praseodymium and Lanthanum Substitution for Bismuth on the Thermoelectric Properties of BiCuSeO Oxyselenides. Semiconductors, 2019, 53, 215-219.	0.2	1
35	Influence of severe plastic deformation on magnetocaloric effect of dysprosium. Journal of Magnetism and Magnetic Materials, 2019, 479, 307-311.	1.0	10
36	Simulation of Field Assisted Sintering of Silicon Germanium Alloys. Materials, 2019, 12, 570.	1.3	12

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37	Exploring the Origin of Contact Destruction in Tetradymite-Like-Based Thermoelectric Elements. Journal of Electronic Materials, 2019, 48, 1932-1938.	1.0	5
38	Direct measurement of shape memory effect for Ni54Mn21Ga25, Ni50Mn41.2In8.8 Heusler alloys in high magnetic field. Journal of Magnetism and Magnetic Materials, 2019, 482, 317-322.	1.0	18
39	Transport properties of ferrimagnetic Mn2CoSn Heusler alloy. Journal of Magnetism and Magnetic Materials, 2019, 485, 193-196.	1.0	8
40	Current Research and Future Prospective of Iron-Based Heusler Alloys as Thermoelectric Materials. Nanotechnologies in Russia, 2019, 14, 281-289.	0.7	2
41	Electrical Transport Properties of Nb and Ga Double Substituted Fe2VAl Heusler Compounds. Semiconductors, 2019, 53, 1856-1859.	0.2	1
42	Reactive spark plasma sintering and thermoelectric properties of Nd-substituted BiCuSeO oxyselenides. Journal of Alloys and Compounds, 2019, 785, 96-104.	2.8	18
43	Synthesis of FeNi tetrataenite phase by means of chemical precipitation. Journal of Magnetism and Magnetic Materials, 2019, 470, 33-37.	1.0	16
44	Magnetic and transport properties of as-prepared Mn2CoGa. Journal of Magnetism and Magnetic Materials, 2019, 470, 55-58.	1.0	10
45	Martensitic transformation in polycrystalline substrate-constrained and freestanding Ni-Mn-Ga films with Ni and Ga excess. Journal of Alloys and Compounds, 2018, 741, 1098-1104.	2.8	7
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.	2.8	2
47	Thermoelectric properties and cost optimization of spark plasma sintered n-type Si0.9Ge0.1 - Mg2Si nanocomposites. Scripta Materialia, 2018, 146, 295-299.	2.6	15
48	Influence of oriented CNT forest on thermoelectric properties of polymer-based materials. Journal of Alloys and Compounds, 2018, 741, 392-397.	2.8	27
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.	2.8	19
50	Effects of severe plastic deformation on the magnetic properties of terbium. AIP Advances, 2018, 8, 048103.	0.6	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.	1.0	13
52	Effect of disorder on magnetic properties and martensitic transformation of Co-doped Ni-Mn-Al Heusler alloy. Intermetallics, 2018, 102, 132-139.	1.8	12
53	Thermoelectrics: Flexible Thermoelectric Polymer Composites Based on a Carbon Nanotubes Forest (Adv. Funct. Mater. 40/2018). Advanced Functional Materials, 2018, 28, 1870285.	7.8	3
54	The evolution of martensitic transformation in Ni-Mn-Ga/Al2O3 polycrystalline 100-nm â€“ 2-Î¼m films with Ni- and Ga-excess. Journal of Alloys and Compounds, 2018, 767, 538-543.	2.8	1

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55	Flexible Thermoelectric Polymer Composites Based on a Carbon Nanotubes Forest. Advanced Functional Materials, 2018, 28, 1801246.	7.8	37
56	Rapid preparation of In_xCo₄Sb₁₂ with a record-breaking ZT = 1.5: the role of the In overfilling fraction limit and Sb overstoichiometry. Journal of Materials Chemistry A, 2017, 5, 3541-3546.	5.2	55
57	Effect of NaF doping on the thermoelectric properties of Ca3Co4O9. Journal of Alloys and Compounds, 2017, 695, 2844-2849.	2.8	23
58	Research of Magnetocaloric Effect For Ni-Mn-In-Co Heusler Alloys by the Direct Methods in Magnetic Fields Up to 14 T. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	13
59	Fe-based semiconducting Heusler alloys. Semiconductors, 2017, 51, 718-721.	0.2	12
60	Effect of upsetting deformation temperature on the formation of the fine-grained cast alloy structure of the Niâ€“Mnâ€“Ga system. Physics of the Solid State, 2017, 59, 1570-1576.	0.2	2
61	Vortex dynamics and frequency splitting in vertically coupled nanomagnets. Scientific Reports, 2017, 7, 1127.	1.6	17
62	Composite Materials Based on Shapeâ€Memory Ti₂NiCu Alloy for Frontier Microâ€•and Nanomechanical Applications. Advanced Engineering Materials, 2017, 19, 1700154.	1.6	43
63	Structural Properties of Mg₂(Si,Ge,Sn)-Based Thermoelectric Materials Prepared by Induction Melting Method. Solid State Phenomena, 2017, 266, 207-211.	0.3	1
64	Plastic deformation by upsetting the Ni-Fe-Mn-Ga alloy. Materials Today: Proceedings, 2017, 4, 4851-4855.	0.9	1
65	Preparation and study of the thermoelectric properties of Fe2TiSn1â€“x Si x Heusler alloys. Semiconductors, 2017, 51, 891-893.	0.2	15
66	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.	0.9	1
67	Thermoelectric properties of Ce x Nd y Co4Sb12 skutterudites. Semiconductors, 2017, 51, 928-931.	0.2	2
68	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.	0.9	0
69	The effect of plastic deformation on magnetic and magnetocaloric properties of Gd-B alloys. Journal of Magnetism and Magnetic Materials, 2017, 442, 360-363.	1.0	16
70	Energy filtering enhancement of thermoelectric performance of nanocrystalline Cr1â^' Si composites. Journal of Alloys and Compounds, 2017, 691, 89-94.	2.8	13
71	Thermomechanical properties and two-way shape memory effect in melt spun Ni57Mn21Al21Si1 ribbons. Journal of Alloys and Compounds, 2017, 696, 310-314.	2.8	8
72	Enhanced thermoelectric figure of merit of p-type Si0.8Ge0.2 nanostructured spark plasma sintered alloys with embedded SiO2 nanoinclusions. Scripta Materialia, 2017, 127, 63-67.	2.6	31

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73	Formation of a martensitic twins structure in Ni2.16Mn0.84Ga heusler alloy by high magnetic fields under adiabatic and isothermal conditions. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1283-1288.	0.1	6
74	Thermoelectric Properties of n-Type Si0,8Ge0,2-FeSi2 Multiphase Nanostructures. Journal of Electronic Materials, 2016, 45, 3427-3432.	1.0	8
75	Thermoelectric Properties of Polyacrylonitrile-Based Nanocomposite. Journal of Electronic Materials, 2016, 45, 3440-3444.	1.0	1
76	Direct Measurements of Magnetocaloric Effect in a Single Crystalline Ni_{2.13}Mn_{0.81}Ga_{1.06} Heusler Alloy. Materials Science Forum, 2016, 872, 38-42.	0.3	0
77	Magnetic Properties of Nd and Sm Rare-Earth Metals After Severe Plastic Deformation. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	4
78	Damping Properties of Magnetically Ordered Shape Memory Alloys. Materials Science Forum, 2016, 845, 77-82.	0.3	0
79	Influence of Sodium Fluoride Doping on Thermoelectric Properties of BiCuSeO. Journal of Electronic Materials, 2016, 45, 1705-1710.	1.0	7
80	Influence of Additional Annealing on Properties of Ni-Mn-In-Co Heusler Alloy. Microscopy and Microanalysis, 2015, 21, 1757-1758.	0.2	0
81	Martensitic transformation in shape memory crystal with defects: Monte Carlo simulations and Landau theory. Physica Status Solidi (B): Basic Research, 2015, 252, 2309-2316.	0.7	2
82	Influence of different mechanisms of martensite aging on the features of martensitic transformations. Physica Status Solidi (B): Basic Research, 2015, 252, 2758-2761.	0.7	0
83	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
84	Features of sintering process of Ni(M)Sn (M=Ti, Zr, Hf) heusler alloys. Bulletin of the Lebedev Physics Institute, 2015, 42, 221-224.	0.1	4
85	Analysis of the Magnetocaloric Effect in Heusler Alloys: Study of Ni50CoMn36Sn13 by Calorimetric Techniques. Entropy, 2015, 17, 1236-1252.	1.1	13
86	Large exchange bias in polycrystalline ribbons of Ni56Mn21Al22Si1. Journal of Magnetism and Magnetic Materials, 2015, 394, 143-147.	1.0	6
87	Temperature Dependent Magnetic and Structural Properties of Ni-Mn-Ga Heusler Alloy Glass-Coated Microwires. Acta Physica Polonica A, 2015, 127, 603-605.	0.2	2
88	Magnetocaloric Properties of Severe Plastic Deformed Gd100-xYxAlloys. Acta Physica Polonica A, 2015, 127, 641-643.	0.2	3
89	Magnetocaloric and thermomagnetic properties of Ni2.18Mn0.82Ga Heusler alloy in high magnetic fields up to 140 kOe. Journal of Applied Physics, 2015, 117, .	1.1	40
90	Dynamic control of metastable remanent states in mesoscale magnetic elements. Journal of Applied Physics, 2015, 117, 17A707.	1.1	2

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91	Effect of severe plastic deformation on the specific heat and magnetic properties of cold rolled Gd sheets. Journal of Applied Physics, 2015, 117, .	1.1	23
92	Properties of metamagnetic alloy Fe48Rh52 in high magnetic fields. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 1086-1088.	0.1	11
93	Magnetocaloric Properties of Cold Rolled Gd_{100-x}Zr_x(x = 0, 1, 2,) Tj ETQq1 1 0.784314 rgBT /Ov	0.3	3
94	Optimization of ball-milling process for preparation of Siâ€“Ge nanostructured thermoelectric materials with a high figure of merit. Scripta Materialia, 2015, 96, 9-12.	2.6	45
95	Quantum ground states of copper nitrates. Moscow University Physics Bulletin (English Translation) Tj ETQq1 1 0.784314 rgBT /Overlo	0.1	0
96	Magnetic, magnetooptical, and magnetotransport properties of Ti-substituted Co2FeGa thin films. , 2014, , .		1
97	Large exchange-bias in Ni55Mn19Al24Si2 polycrystalline ribbons. Physica B: Condensed Matter, 2014, 448, 143-146.	1.3	2
98	Structural and Magnetic Properties of Melt-Spun Ni-Mn(Fe)-Ga Ferromagnetic Shape Memory Ribbons. IEEE Transactions on Magnetics, 2014, 50, 1-3.	1.2	3
99	Effect of thermal cycling on the martensitic transformation in Ni-Mn-In alloys. Journal of Applied Physics, 2014, 116, 103515.	1.1	11
100	Magnetocaloric effect in â€œreducedâ€•dimensions: Thin films, ribbons, and microwires of Heusler alloys and related compounds. Physica Status Solidi (B): Basic Research, 2014, 251, 2104-2113.	0.7	94
101	Volume Change During Intermartensitic Transformations in Ni-Mn-Ga Alloy. Journal of Materials Engineering and Performance, 2014, 23, 3180-3183.	1.2	5
102	Structural and magnetic size effects in nanodisperse Zn x Fe3 â˜' x O4 ferrite systems. Physics of the Solid State, 2014, 56, 1334-1337.	0.2	2
103	Phase transitions and magnetic properties of Ni(Co)â€“Mnâ€“Al melt-spun ribbons. Journal of Alloys and Compounds, 2014, 586, S218-S221.	2.8	10
104	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.	1.8	14
105	Thermomagnetic and magnetocaloric properties of metamagnetic Ni-Mn-In-Co Heusler alloy in magnetic fields up to 140 kOe. EPJ Web of Conferences, 2014, 75, 04008.	0.1	24
106	Magnetocaloric and magnetic properties of Ni2Mn1â˜'xCuxGa Heusler alloys: An insight from the direct measurements and ab initio and Monte Carlo calculations. Journal of Applied Physics, 2013, 114, .	1.1	30
107	Magnetocaloric properties of Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>48</mml:mn></mml:msub></mml:math>Mn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>24</mml:mn></mml:msub></mml:math>Ga<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	1.1	22
108	Quaternary Niâ€“Mnâ€“Inâ€“YHeusler alloys: a way to achieve materials with better magnetocaloric properties?. Journal Physics D: Applied Physics, 2013, 46, 305003.	1.3	24

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109	Magneto-optical spectroscopy of the martensitic transition in Fe48Mn24Ga28 Heusler alloys. Physics of the Solid State, 2013, 55, 1866-1869.	0.2	9
110	Inconvenient magnetocaloric effect in ferromagnetic shape memory alloys. Journal of Alloys and Compounds, 2013, 577, S362-S366.	2.8	23
111	Theoretical treatment and direct measurements of magnetocaloriceffect in Ni2.19â^'xFexMn0.81Ga Heusler alloys. Journal of Magnetism and Magnetic Materials, 2013, 343, 6-12.	1.0	14
112	Ab initio study of magnetic properties of Fe-Mn-Al Heusler alloys. Materials Research Society Symposia Proceedings, 2013, 1581, 1.	0.1	1
113	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
114	Use of Arrott plots to identify NÃ©el temperature (TN) in metamagnetic Ni48Co6Mn26Al20 polycrystalline ribbons. Journal of Applied Physics, 2013, 114, .	1.1	23
115	Shape Memory Effect in Microsized Samples of Rapidly Quenched Ferromagnetic Alloy Ni-Mn-Ga. Solid State Phenomena, 2012, 190, 295-298.	0.3	10
116	Magnetocaloric materials with first-order phase transition: thermal and magnetic hysteresis in LaFe11.8Si1.2 and Ni2.21Mn0.77Ga1.02 (invited). Journal of Applied Physics, 2012, 111, .	1.1	50
117	Hysteresis and magnetocaloric effect at the magnetostructural phase transition of Ni-Mn-Ga and Ni-Mn-Co-Sn Heusler alloys. Physical Review B, 2012, 85, .	1.1	119
118	Phase diagram of the ferromagnetic shape memory alloys Ni<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>MnGa<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Co<mml: xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	1.1	22
119	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.	1.3	62
120	Systematic study of structural, transport, and magnetic properties of Ni52+xMn26â^'xAl22 (1â€‰â‰â€‰xâ€‰â‰â€‰5) melt-spun ribbons. Journal of Applied Physics, 2011, 109, .	1.1	21
121	Mesoscopic structure of Ni2 + x Mn1 â^' x Ga alloys in the concentration range corresponding to a coupled magnetic-structural phase stransition. Physics of the Solid State, 2010, 52, 1333-1337.	0.2	0
122	Actuators based on composite material with shape-memory effect. Journal of Communications Technology and Electronics, 2010, 55, 818-830.	0.2	38
123	Peculiarities of the magnetocaloric properties in Ni-Mn-Sn ferromagnetic shape memory alloys. Physical Review B, 2010, 81, .	1.1	96
124	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.	1.0	14
125	A low temperature anomaly observed in off-stoichiometric Niâ€“Mnâ€“Ga system studied by higher harmonic ac-susceptibility measurements. Applied Physics Letters, 2010, 97, 122505.	1.5	3
126	Imprinting Bias Stress in Functional Composites. Japanese Journal of Applied Physics, 2010, 49, 100212.	0.8	5

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127	Reversibility and irreversibility of magnetocaloric effect in a metamagnetic shape memory alloy under cyclic action of a magnetic field. Applied Physics Letters, 2010, 97, 052503.	1.5	71
128	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, .	1.1	119
129	Monte Carlo study of magnetocaloric properties of Ni-Mn-Ga Heusler alloys. Journal of Physics: Conference Series, 2010, 200, 032008.	0.3	1
130	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
131	Magnetocaloric Effect in Ni-Mn-Ga and Ni-Co-Mn-In Heusler Alloys. Materials Research Society Symposia Proceedings, 2009, 1200, 69.	0.1	2
132	Comparative Study of the Magnetocaloric Properties in Ni-Mn-X (X = Ga, In, Sn) by Magnetization and Specific Heat Measurements. Materials Research Society Symposia Proceedings, 2009, 1200, 77.	0.1	0
133	Effect of severe plastic deformation and ultrarapid quenching on the properties of magnetic shape memory alloys near the Ni2MnGa composition. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 948-951.	0.1	3
134	Magnetic 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>50</mml:mn> by MÃ¶ssbauer spectroscopy. Physical Review B, 2009, 80, .	1.1	58
135	Influence of cobalt on phase transitions in Ni50Mn37Sn13. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 322-325.	2.6	18
136	Phase transitions in Heusler alloys with exchange inversion. Journal of Magnetism and Magnetic Materials, 2008, 320, e175-e178.	1.0	6
137	Magnetic shape memory and giant magnetocaloric effect in Heusler alloys. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 527-528.	0.1	0
138	New Heusler alloys with a metamagnetostructural phase transition. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 564-568.	0.1	5
139	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></mml:mrow> a case study. Physical Review B, 2008, 78, .	1.1	59
140	New composite shape memory functional material for nano and microengineering application. , 2008, , .		3
141	New aspects of martensite stabilization in Niâ€“Mnâ€“Ga high-temperature shape memory alloy. Philosophical Magazine, 2008, 88, 865-882.	0.7	16
142	Magnetocaloric effect in Ni _{2.19} Mn _{0.81} Ga Heusler alloys. International Journal of Applied Electromagnetics and Mechanics, 2006, 23, 65-69.	0.3	19
143	Modelling the phase diagram of magnetic shape memory Heusler alloys. Journal Physics D: Applied Physics, 2006, 39, 865-889.	1.3	306
144	Spin correlations and a mesoscopic structure in Ni-Mn-Ga. Journal of Experimental and Theoretical Physics, 2006, 102, 102-113.	0.2	14

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145	The thermal expansion coefficient and volume magnetostriction of Heusler Ni2MnGa alloys. Journal of Magnetism and Magnetic Materials, 2006, 300, e459-e461.	1.0	27
146	Martensitic and magnetic phase transitions in ternary ferromagnetic alloys Niâ€“Mnâ€“Ga. Journal of Magnetism and Magnetic Materials, 2006, 300, e486-e488.	1.0	15
147	Title is missing!. Physics-Uspekhi, 2006, 49, 871.	0.8	59
148	Influence of volume magnetostriction on the Tâ€“x phase diagram of shape memory Ni2+xMn1âˆ’xGa alloys. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 854-856.	1.0	10
149	Intermartensitic phase transformations in Niâ€“Mnâ€“Ga studied under magnetic field. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 871-873.	1.0	25
150	Low temperature-induced intermartensitic phase transformations in Niâ€“Mnâ€“Ga single crystal. Acta Materialia, 2005, 53, 111-120.	3.8	106
151	Transformation behavior of Niâ€“Mnâ€“Ga thin films. Smart Materials and Structures, 2005, 14, S245-S252.	1.8	72
152	Phase transitions inNi2+xMn1âˆ’xGawith a high Ni excess. Physical Review B, 2005, 72, .	1.1	176
153	Interdependence between the magnetic properties and lattice parameters of Niâ€“Mnâ€“Ga martensite. Journal of Physics Condensed Matter, 2004, 16, 8345-8352.	0.7	14
154	Influence of intermartensitic transitions on transport properties of Ni2.16Mn0.84Ga alloy. Journal of Physics Condensed Matter, 2004, 16, 1951-1961.	0.7	43
155	Aging-induced complex transformation behavior of martensite in Ni57.5Mn17.5Ga25 shape memory alloy. Scripta Materialia, 2004, 51, 13-17.	2.6	34
156	Magnetocaloric effect and magnetization in a Niâ€“Mnâ€“Ga Heusler alloy in the vicinity of magnetostructural transition. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2040-2042.	1.0	63
157	Simultaneous magnetooptic observation and thermomagnetic analysis of phase transitions in shape-memory Niâ€“Mnâ€“Ga alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2035-2037.	1.0	10
158	An efficient control of Curie temperature TC in Niâ€“Mnâ€“Ga alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2067-2068.	1.0	36
159	Thin films of ferromagnetic shape memory alloys processed by laser beam ablation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 443-447.	2.6	13
160	Magnetic properties and magnetostructural phase transitions inNi2+xMn1âˆ’xGashape memory alloys. Physical Review B, 2004, 70, .	1.1	138
161	Entropy change at the martensitic transformation in ferromagnetic shape memory alloys Ni2+xMn1âˆ’xGa. Journal of Applied Physics, 2003, 93, 8483-8485.	1.1	100
162	Detection of weak-order phase transitions in ferromagnets by ac resistometry. Journal of Applied Physics, 2003, 94, 2491-2493.	1.1	10

#	Article	IF	Citations
163	Shape memory ferromagnets. Physics-Uspekhi, 2003, 46, 559-588.	0.8	233
164	Magnetic properties ofNi2.18Mn0.82Ga Heusler alloys with a coupled magnetostructural transition. Physical Review B, 2002, 65, .	1.1	70
165	Premartensitic transition in Ni2+xMn1-xGa Heusler alloys. Journal of Physics Condensed Matter, 2001, 13, 9655-9662.	0.7	53
166	Phase transitions in intermetallic compounds Ni-Mn-Ga with shape memory effect. IEEE Transactions on Magnetics, 1999, 35, 3811-3813.	1.2	31
167	Structural and magnetic phase transitions in shape-memory alloysNi2+xMn1â^'xGa. Physical Review B, 1999, 59, 1113-1120.	1.1	401
168	Shape Memory Alloys: A Summary of Recent Achievements. Materials Science Forum, 0, 583, 21-41.	0.3	64
169	Metamagnetic Shape Memory Effect and Magnetic Properties of Ni-Mn Based Heusler Alloys. Materials Science Forum, 0, 684, 139-150.	0.3	9
170	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
171	Adiabatic Temperature Change in Metamagnetic Ni(Co)-Mn-Al Heusler Alloys. Materials Science Forum, 0, 738-739, 446-450.	0.3	7
172	Magnetocaloric and other Properties of Cold Rolled Gd Ribbons. Materials Science Forum, 0, 738-739, 441-445.	0.3	1
173	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
174	Search the Hard Magnetic Tetrataenite Phase in the Fragments of Chelyabinsk Meteorite. Materials Science Forum, 0, 845, 265-268.	0.3	0
175	The Effect of Plastic Deformation on Magnetic and Magnetocaloric Properties of Gd₉₀Ga₁₀ Alloy. Materials Science Forum, 0, 845, 56-60.	0.3	3
176	Electric Resistivity and Hall Effect of Ni(Co)-Mn-Al Melt Spun Ribbons. Materials Science Forum, 0, 845, 65-68.	0.3	6
177	Thermoelectric Properties of Nanostructured Material Based on Si and GaSb. Defect and Diffusion Forum, 0, 386, 102-109.	0.4	1
178	Comparison of the Structural, Optical and Thermoelectrical Properties of Ca Silicide Films with Variable Composition on Si Substrates. Defect and Diffusion Forum, 0, 386, 3-8.	0.4	10
179	Simulation of Fe-Ti-Sb Thernary Phase Diagram at Temperatures above 900 K. Key Engineering Materials, 0, 877, 114-119.	0.4	0