Vladimir Sokolovskiy

List of Publications by Year
in descending order

157	2,711	304743 22	206112 48
papers	citations	h-index	g-index

163	163	163	1440
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	c and structural properties of Co-Ni-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1016" altimg="si84.svg"><mml:mi>Z</mml:mi></mml:math>Â(<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (xmlns:mml=	2.3	2
2	Electronic and Vibrational Properties of Feâ„NiAl and Coâ„NiAl Full Heusler Alloys: A First-Principles Comparison. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	0
3	Magnetocaloric effect and magnetic phase diagram of Ni-Mn-Ga Heusler alloy in steady and pulsed magnetic fields. Journal of Alloys and Compounds, 2022, 904, 164051.	5.5	14
4	Impact of local arrangement of Fe and Ni on the phase stability and magnetocrystalline anisotropy in Fe-Ni-Al Heusler alloys. Physical Review Materials, 2022, 6, .	2.4	6
5	Structural and magnetic properties of Feâ€“Al alloys: AbÂinitio studies. Journal of Magnetism and Magnetic Materials, 2022, 557, 169437.	2.3	3
6	Segregation tendency and properties of FeRh1-Pt alloys. Journal of Magnetism and Magnetic Materials, 2022, 556, 169403.	2.3	1
7	Exchange Correlation Effects in Modulated Martensitic Structures of the Mn2NiGa Alloy. Physics of Metals and Metallography, 2022, 123, 375-380.	1.0	3
8	Review of Modern Theoretical Approaches for Study of Magnetocaloric Materials. Physics of Metals and Metallography, 2022, 123, 319-374.	1.0	12
9	Study of Heat Transfer Processes in a System Containing Feâ€“Rh Microwires. Physics of Metals and Metallography, 2022, 123, 381-385.	1.0	0
10	Magnetocaloric Effect in Metals and Alloys. Physics of Metals and Metallography, 2022, 123, 315-318.	1.0	13
11	Prediction of a Heusler alloy with switchable metal-to-half-metal behavior. Physical Review B, 2021, 103, .	3.2	8
12	A Ternary Map of Niâ€“Mnâ€“Ga Heusler Alloys from Ab Initio Calculations. Metals, 2021, 11, 973.	2.3	4
13	Phase transitions in Fe-(23â^'24)Ga alloys: Experimental results and modeling. Journal of Alloys and Compounds, 2021, 885, 160917.	5.5	3
14	Design of a Stable Heusler Alloy with Switchable Metalâ€toâ€Halfâ€Metal Transition at Finite Temperature. Advanced Theory and Simulations, 2021, 4, 2100311.	2.8	6
15	FIRST-PRINCIPLES STUDIES OF THE PHASE TRANSITIONS IN Fe-Si ALLOYS. Bulletin of the South Ural State University Series Mathematics Mechanics Physics, 2021, 13, 52-58.	0.2	0
16	Statistical model for the martensitic transformation simulation in Heusler alloys. Physica B: Condensed Matter, 2020, 578, 411874.	2.7	2
17	Structural, magnetic and electronic properties of FeRhxPd1-x compounds: Ab initio study. Physica B: Condensed Matter, 2020, 578, 411882.	2.7	2
18	First principles study of structural and magnetic properties in Fe100â^'Ge alloys. Physica B: Condensed Matter, 2020, 580, 411934.	2.7	4

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19	Phase transitions in Fe₃Al-based alloys: ab initio study. Phase Transitions, 2020, 93, 43-53.	1.3	1
20	Electronic structure beyond the generalized gradient approximation for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2020, 102, .	3.2	13
21	Superconducting and antiferromagnetic properties of dual-phase V3Ga. Applied Physics Letters, 2020, 117, 062401.	3.3	5
22	Magnetocaloric properties of Ni2+xMn1â^'xGa with coupled magnetostructural phase transition. Journal of Applied Physics, 2020, 127, .	2.5	9
23	Ab Initio Studies of Phase Transformations in Fe100Ââ€“ÂxSix. Physics of the Solid State, 2020, 62, 739-743.	0.6	2
24	Exchange-correlation corrections for electronic properties of half-metallic Co2FeSi and nonmagnetic semiconductor CoFeTiAl. Journal of Applied Physics, 2020, 127, .	2.5	10
25	Electronic and Magnetic Properties of DyFe4Ge2 Alloys near a Phase Transition. Physics of the Solid State, 2020, 62, 931-936.	0.6	0
26	A Study of the Structure and Magnetic Properties of FeRh1Ââ€“ÂxIrx (x = 0.5â€“1) Alloys by First-Principles Methods. Physics of the Solid State, 2020, 62, 963-967.	0.6	2
27	First-Principles Study of the Structure and Properties of Fe3Pd and Feâ€“Pdâ€“Rh Alloys. Shape Memory and Superelasticity, 2020, 6, 61-66.	2.2	2
28	Effects of magnetic and structural phase transitions on the normal and anomalous Hall effects in Ni-Mn-In-B Heusler alloys. Physical Review B, 2020, 101, .	3.2	24
29	Coulomb correlation in noncollinear antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -Mn. Physical Review B, 2020, 101, .	3.2	27
30	Prediction of giant magnetocaloric effect in Ni40Co10Mn36Al14 Heusler alloys: An insight from ab initio and Monte Carlo calculations. Journal of Applied Physics, 2020, 127, 163901.	2.5	8
31	Phase Transformations in Ni(Co)â€“Mn(Cr,C)â€“(In,Sn) Alloys: An Ab Initio Study. Physics of Metals and Metallography, 2020, 121, 202-209.	1.0	4
32	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
33	Magnetocaloric and Shape Memory Effects in the Mn2NiGa Heusler Alloy. Physics of the Solid State, 2020, 62, 815-820.	0.6	8
34	VOLUME MAGNETOSTRICTION OF FE-GA ALLOYS: CALCULATION FROM FIRST PRINCIPLES. Bulletin of the South Ural State University Series Mathematics Mechanics Physics, 2020, 12, 57-62.	0.2	0
35	Structural and Elastic Properties of Fe-Ge Alloys: ab initio studies. Bulletin of the South Ural State University Series Mathematics Mechanics Physics, 2020, 12, 49-56.	0.2	0
36	Phase Diagram of FÐµâ€“Al Alloys: A Study from First Principles. Bulletin of the Russian Academy of Sciences: Physics, 2019, 83, 844-846.	0.6	3

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37	Correlation effects in the ground state of Ni-(Co)-Mn-Sn Heusler compounds. MRS Advances, 2019, 4, 441-446.	0.9	3
38	Monte Carlo simulations of hysteresis effects at the martensitic transformation. Physica B: Condensed Matter, 2019, 575, 411692.	2.7	2
39	Correlation effects on ground-state properties of ternary Heusler alloys: First-principles study. Physical Review B, 2019, 99, .	3.2	28
40	Phase diagram of magnetostrictive Fe-Ga alloys: insights from theory and experiment. Phase Transitions, 2019, 92, 101-116.	1.3	33
41	Magnetostriction of Fe100-xGax alloys from first principles calculations. Journal of Magnetism and Magnetic Materials, 2019, 476, 120-123.	2.3	7
42	Investigation of electronic, magnetic and structural properties of the Fe1â^'xMnxRh. Journal of Magnetism and Magnetic Materials, 2019, 476, 325-328.	2.3	6
43	First-principles study of Ni-Co-Mn-Sn alloys with regular and inverse Heusler structure. Journal of Magnetism and Magnetic Materials, 2019, 476, 546-550.	2.3	7
44	Ground state and magnetic properties of the Cr-doped Ni-Mn-(Ga, Ge, In, Sn) alloys: Insights from ab initio study. Journal of Magnetism and Magnetic Materials, 2019, 470, 123-126.	2.3	7
45	Modeling of the structural and magnetic properties of Fe-Rh-(Z) (Zâ€¯=â€¯Mn, Pt) alloys by first principles methods. Journal of Magnetism and Magnetic Materials, 2019, 470, 69-72.	2.3	7
46	Ternary diagrams of magnetic properties of Ni-Mn-Ga Heusler alloys from ab initio and Monte Carlo studies. Journal of Magnetism and Magnetic Materials, 2019, 470, 64-68.	2.3	10
47	Peculiarities of phonons in Ni-Mn-Ga alloys: Ab initio studies. Journal of Magnetism and Magnetic Materials, 2019, 470, 73-76.	2.3	2
48	Magnetic properties of Fe100â^'Ga : Ab initio and Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2019, 470, 118-122.	2.3	8
49	Segregation tendency of Heusler alloys. Physical Review Materials, 2019, 3, .	2.4	12
50	Theoretical study of heat transfer processes in Heusler-type magnetic microwires. Letters on Materials, 2019, 9, 395-399.	0.7	3
51	Ab Initio Calculation of Vacancy Formation Energy in Antiperovskite Mn3GaC. Bulletin of the South Ural State University Series Mathematics Mechanics Physics, 2019, 11, 58-64.	0.2	0
52	FIRST-PRINCIPLES INVESTIGATIONS OF REFERENCE STATES OF Co2CrIn HEUSLER ALLOYS. Bulletin of the South Ural State University Series Mathematics Mechanics Physics, 2019, 11, 59-66.	0.2	0
53	Modelling of Rhombohedral Magnetostriction in Fe-Ga Alloys. Bulletin of the South Ural State University, Series: Mathematical Modelling, Programming and Computer Software, 2019, 12, 158-165.	0.4	1
54	Probing Structural and Magnetic Instabilities and Hysteresis in Heuslers by Density Functional Theory Calculations (Phys. Status Solidi B 2/2018). Physica Status Solidi (B): Basic Research, 2018, 255, 1870108.	1.5	2

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55	Phenomenological analysis of thermal hysteresis in Ni-Mn-Ga Heusler alloys. Phase Transitions, 2018, 91, 469-476.	1.3	1
56	Structural, magnetic and thermodynamic properties of Mn3-X-C (X = Ga, Sn) compounds: ab initio study. Physica B: Condensed Matter, 2018, 549, 94-97.	2.7	1
57	Probing Structural and Magnetic Instabilities and Hysteresis in Heuslers by Density Functional Theory Calculations. Physica Status Solidi (B): Basic Research, 2018, 255, 1700296.	1.5	11
58	Magnetocaloric effect in Ni-Co-Mn-(Sn, Al) Heusler alloys: Theoretical study. Journal of Magnetism and Magnetic Materials, 2018, 459, 295-300.	2.3	9
59	Magnetic states of Ni2MnZ and Ni2CrZ (Zâ€¯=â€¯Al, As, Bi, Ga, Ge, In, P, Pb, Sb, Si, Sn, Tl) Heusler alloys. Journal of Magnetism and Magnetic Materials, 2018, 459, 78-83.	2.3	11
60	Monte Carlo Simulations of Thermal Hysteresis in Niâ€Mnâ€Based Heusler Alloys. Physica Status Solidi (B): Basic Research, 2018, 255, 1700265.	1.5	3
61	The effect of antisite disorder on magnetic and magnetocaloric properties of Ni-Co-Mn-In alloys: ab initio and Monte Carlo studies. , 2018, , .		0
62	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
63	Investigation of structural and magnetic properties of Fe-Rh-(Z) (Z = Co, Pt) alloys by first principles method. EPJ Web of Conferences, 2018, 185, 05005.	0.3	1
64	The Effect of Anti-Site Disorder on Structural and Magnetic Properties of Niâ€“Coâ€“Mnâ€“In Alloys: <italic>Ab Initio</italic> and Monte Carlo Studies. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	5
65	Ab Initio Study of the Structural, Magnetic, Electronic, and Thermodynamic Properties of Pd2MnZ (Z =) Tj ETQq1 1 0.784314 rgBT /Ov	0.6	8
66	First-Principles Study of the Structure and Magnetic Properties of Fe8Rh8 â€“ xZx (Z = Mn, Pt, Co; x = 1,) Tj ETQq0 0 0 rgBT /Overlock 10	0.6	1
67	Properties and Decomposition of Heusler Alloys. Energy Technology, 2018, 6, 1478-1490.	3.8	24
68	Ab initio study of magnetic and structural properties of Fe-Ga alloys. EPJ Web of Conferences, 2018, 185, 04013.	0.3	9
69	Structural and magnetic properties of heusler alloys Pd2MnZ (Z=Ga, Ge, As): AB INITIO study. EPJ Web of Conferences, 2018, 185, 05007.	0.3	3
70	Complex investigations of phase diagram of Ni-Pt-Mn-Ga Heusler alloys. Letters on Materials, 2018, 8, 21-26.	0.7	4
71	First-principles and Monte Carlo studies of the Ni₂(Mn,Cr)Ga Heusler alloys electronic and magnetic properties. Materials Research Express, 2017, 4, 026105.	1.6	10
72	Magnetic properties and martensitic transformation of Niâ€“Mnâ€“Ge Heusler alloys from first-principles and Monte Carlo studies. Journal Physics D: Applied Physics, 2017, 50, 195001.	2.8	8

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73	Ab initio calculations of structural and magnetic properties of Ni-Co-Mn-Cr-Sn supercell. Intermetallics, 2017, 87, 55-60.	3.9	11
74	Complex investigation of structural and magnetic properties of the Ni-Mn-(Ga, Ge) alloys within ab initio approach. Materials Today: Proceedings, 2017, 4, 4616-4620.	1.8	0
75	Effect of structural disorder on the ground state properties of Co 2 CrAl Heusler alloy. Physica B: Condensed Matter, 2017, 519, 82-89.	2.7	16
76	Ab initio study of the composite phase diagram of Niâ€“Mnâ€“Ga shape memory alloys. Journal of Experimental and Theoretical Physics, 2017, 125, 104-110.	0.9	5
77	Structural, magnetic and electronic properties of Ni-Mn-Ga-Cr Heusler alloys: ab initio and Monte Carlo studies. Materials Today: Proceedings, 2017, 4, 4621-4625.	1.8	1
78	First principles study of the structural and magnetic properties of Fe(Rh, Pd) and Fe(Rh, Ni) alloys. Materials Today: Proceedings, 2017, 4, 4642-4646.	1.8	11
79	Large change of magnetic moment in Ni<inf>13</inf>Co<inf>3</inf>Mn<inf>13</inf>Sn<inf>3</inf> and Ni<inf>13</inf>Co<inf>3</inf>Mn<inf>13</inf>Sn<inf>2</inf>Al<inf>1</inf> Heusler alloys at martensitic transitions: Investigation from first principles, , 2017, , .		0
80	Modeling of heat transfer processes in Ni₂MnIn magnetic wires. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 390-398.	1.8	6
81	Electronic and magnetic properties of the Co₂-based Heusler compounds under pressure: first-principles and Monte Carlo studies. Journal Physics D: Applied Physics, 2016, 49, 355004.	2.8	41
82	Magnetic, thermal, and electrical properties of an Ni45.37Mn40.91In13.72 Heusler alloy. Journal of Experimental and Theoretical Physics, 2016, 122, 874-882.	0.9	18
83	Ab Initio Investigations of Structural and Magnetic Properties of Cr-Doped Ni-Co-Mn-Sn Heusler Alloys. Materials Science Forum, 2016, 845, 134-137.	0.3	3
84	First principles study of the structural properties of Ni1.75Co0.25Mn1.5-xCrxIn0.5Heusler alloy. MATEC Web of Conferences, 2015, 33, 02002.	0.2	1
85	Magnetic states of C-doped Ni43.75Co6.25Mn37.5In12.5Heusler alloys. MATEC Web of Conferences, 2015, 33, 05001.	0.2	1
86	Ab initiocalculations of structural and magnetic properties of Ni-Co-Mn-Cr-Sn alloys. MATEC Web of Conferences, 2015, 33, 05003.	0.2	0
87	First-principles and Monte Carlo studies of C-doped Ni₄₅Co₅Mn₃₇In₁₃Heusler alloys. MATEC Web of Conferences, 2015, 33, 05004.	0.2	1
88	Compositional trends in Ni-Mn-Ga Heusler alloys: first-principles approach. MATEC Web of Conferences, 2015, 33, 05005.	0.2	4
89	Achieving large magnetocaloric effects in Co- and Cr-substituted Heusler alloys: Predictions from first-principles and Monte Carlo studies. Physical Review B, 2015, 91, .	3.2	36
90	Large magnetocaloric effects in magnetic intermetallics: First-principles and Monte Carlo studies. MATEC Web of Conferences, 2015, 33, 02001.	0.2	2

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91	Martensitic transformation in shape memory crystal with defects: Monte Carlo simulations and Landau theory. Physica Status Solidi (B): Basic Research, 2015, 252, 2309-2316.	1.5	2
92	First Principles and Monte Carlo Calculations of Structural and Magnetic Properties of FexNi2-xMn1+yAl1-yHeusler Alloys. MATEC Web of Conferences, 2015, 33, 05002.	0.2	0
93	Magnetic States of the Ni_{1.75}Co_{0.25}Mn_{1.25}Cr_{0.25}In<sub> Heusler Alloy. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.1	2
94	First-Principles Calculations of Magnetic Properties of Cr-Doped Ni₄₅Co₅Mn₃₇In₁₃ Heusler Alloys. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
95	The metamagnetic behavior and giant inverse magnetocaloric effect in Niâ€“Coâ€“Mnâ€“(Ga, In, Sn) Heusler alloys. Journal of Magnetism and Magnetic Materials, 2015, 385, 193-197.	2.3	22
96	First Principles Investigation of Magnetic Properties of Fe-Ni-Mn-Al Heusler Alloys. Physics Procedia, 2015, 75, 1427-1434.	1.2	7
97	First Principles Investigations of Structural and Magnetic Properties of Fe-Ni-Mn-Al Heusler Alloys. Solid State Phenomena, 2015, 233-234, 187-191.	0.3	3
98	Predictions of a Large Magnetocaloric Effect in Co- and Cr-Substituted Heusler Alloys Using First-Principles and Monte Carlo Approaches. Physics Procedia, 2015, 75, 1381-1388.	1.2	3
99	First principles investigation of structural and magnetic properties of Niâ€“Coâ€“Mnâ€“In Heusler alloys. Journal Physics D: Applied Physics, 2015, 48, 164005.	2.8	18
100	First-principles calculations of magnetic properties of Cr-doped Ni<inf>45</inf>Co<inf>5</inf>Mn<inf>37</inf>In<inf>13</inf> Heusler alloys. , 2015, , .		0
101	Monte Carlo Study of the Polycrystalline Ni₂MnGa Heusler Alloy. Solid State Phenomena, 2015, 233-234, 251-254.	0.3	1
102	The magnetic states of the Ni<inf>1.75</inf>Co<inf>0.25</inf>Mn<inf>1.25</inf>Cr<inf>0.25</inf>In<inf>0.5</in Heusler alloy. , 2015, , .		0
103	Structural and Magnetic Properties of Mn₂NiZ (Z = Ga, In, Sn, Sb) Heusler Alloys from Ab Initio Calculations. Solid State Phenomena, 2015, 233-234, 229-232.	0.3	8
104	First-principles study of the structural and magnetic properties of the Ni 45 Co 5 Mn 39 Sn 11 Heusler alloy. Journal of Magnetism and Magnetic Materials, 2015, 383, 180-185.	2.3	7
105	Calculation of Electronic Structure and Field Induced Magnetic Collapse in Ferroic Materials. , 2015, , 405-408.		0
106	Monte Carlo and first-principles approaches for single crystal and polycrystalline Ni₂MnGa Heusler alloys. Journal Physics D: Applied Physics, 2014, 47, 425002.	2.8	20
107	Theoretical prediction of the spin glass behavior in the low-temperature phase of Ni2 Mn1.36 In0.64 Heusler alloy. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1110-1115.	0.8	1
108	Investigation of structural and magnetic properties of Heusler Fe2+x Mn1â^'x Al alloys by first principles method. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 979-983.	0.8	3

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109	First-principles calculation of the instability leading to giant inverse magnetocaloric effects. Physical Review B, 2014, 89, .	3.2	73
110	Interacting magnetic clusterâ€spin glasses and strain glasses in Niâ€“Mn based Heusler structured intermetallics. Physica Status Solidi (B): Basic Research, 2014, 251, 2135-2148.	1.5	37
111	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
112	Ab Initio and Monte Carlo Approaches For the Magnetocaloric Effect in Co- and In-Doped Ni-Mn-Ga Heusler Alloys. Entropy, 2014, 16, 4992-5019.	2.2	40
113	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, .	2.5	30
114	Complex magnetic ordering as a driving mechanism of multifunctional properties of Heusler alloys from first principles. European Physical Journal B, 2013, 86, 1.	1.5	88
115	Publisher's Note: First-principles investigation of chemical and structural disorder in magnetic Ni2Mn1+xSn1â^'xHeusler alloys [Phys. Rev. B86, 134418 (2012)]. Physical Review B, 2013, 87, .	3.2	3
116	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
117	Optimization of smart Heusler alloys from first principles. Journal of Alloys and Compounds, 2013, 577, S107-S112.	5.5	46
118	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
119	Ab initio study of magnetic properties of Fe-Mn-Al Heusler alloys. Materials Research Society Symposia Proceedings, 2013, 1581, 1.	0.1	1
120	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
121	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
122	Interaction of phase transformation and magneto- and elastocaloric properties of Heusler alloys. Materials Research Society Symposia Proceedings, 2013, 1581, 1.	0.1	1
123	Theoretical Study of Magnetic Properties and Twin Boundary Motion in Heusler Ni-Mn-X Shape Memory Alloys Using First Principles and Monte Carlo Method. Advances in Science and Technology, 2012, 78, 7-12.	0.2	1
124	First-principles investigations of caloric effects in ferroic materials. , 2012, , .		6
125	Phase Diagrams of Conventional and Inverse Functional Magnetic Heusler Alloys: New Theoretical and Experimental Investigations. Springer Series in Materials Science, 2012, , 19-47.	0.6	6
126	Monte Carlo Study of the Magnetic and Magnetocaloric Properties of La₁-_xCa_xMnO₃ (x = 0.33 and 0.5). Solid State Phenomena, 2012, 190, 347-350.	0.3	7

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127	Optimization of the magnetocaloric effect in Ni-Mn-In alloys: A theoretical study. Journal of Experimental and Theoretical Physics, 2012, 115, 662-665.	0.9	5
128	First-principles investigation of chemical and structural disorder in magnetic 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>Mn<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>+</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Sn<mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><m. Phy	3.2	111
129	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
130	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
131	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
132	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
133	Magnetocaloric effect in Ni-Mn-X (X = Ga, In, Sn, Sb) Heusler alloys. Physics of Metals and Metallography, 2011, 112, 633-665.	1.0	127
134	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
135	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
136	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
137	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> Physical Review B, 2010, 81, .	3.2	119
138	Monte Carlo study of magnetocaloric properties of Ni-Mn-Ga Heusler alloys. Journal of Physics: Conference Series, 2010, 200, 032008.	0.4	1
139	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
140	Magnetocaloric Effect in Ni-Mn-Ga and Ni-Co-Mn-In Heusler Alloys. Materials Research Society Symposia Proceedings, 2009, 1200, 69.	0.1	2
141	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
142	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
143	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:mtext>Ni</mml:mtext></mml:mrow><mml:mrow><mml:mn>2.19</mml:mn> Monte Carlo study of the influ Physical Review B, 2009, 79,	3.2	59
144	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
145	Modelling the phase diagram of magnetic shape memory Heusler alloys. Journal Physics D: Applied Physics, 2006, 39, 865-889.	2.8	306
146	Phase transitions inNi2+xMn1âˆ'xGawith a high Ni excess. Physical Review B, 2005, 72, .	3.2	176
147	Structural and magnetic phase transitions in shape-memory alloysNi2+xMn1âˆ'xGa. Physical Review B, 1999, 59, 1113-1120.	3.2	401
148	Monte-Carlo Calculation of the Magnetocaloric Effect in Ni-Mn-Ga Alloys. Solid State Phenomena, 0, 152-153, 493-496.	0.3	1
149	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
150	Theoretical Study of Twin Boundary Motion in Heusler Ni-Mn-Ga Alloys Using Monte Carlo Method. Solid State Phenomena, 0, 190, 327-330.	0.3	0
151	Theoretical Study of Magnetic Properties and Multiple Twin Boundary Motion in Heusler Ni-Mn-X Shape Memory Alloys Using First Principles and Monte Carlo Method. Materials Science Forum, 0, 738-739, 461-467.	0.3	0
152	<i>Ab Initio</i> Study of Magnetic Properties and Phase Diagram of Ni-Mn-Ga Heusler Alloys. Materials Science Forum, 0, 738-739, 473-477.	0.3	3
153	First Principles Calculations of Magnetic Exchange Parameters of Fe-Mn-Al Heusler Alloys. Solid State Phenomena, 0, 215, 131-136.	0.3	3
154	Novel Achievements in the Research Field of Multifunctional Shape Memory Ni-Mn-In and Ni-Mn-In-Z Heusler Alloys. Materials Science Foundations, 0, 81-82, 38-76.	0.2	15
155	First Principles Study of the Structural and Magnetic Properties of Cr-Doped Ni_{1.75}Co_{0.25}Mn_{1.5}In_{0.5} Heusler Alloys. Materials Science Forum, 0, 845, 138-141.	0.3	6
156	Ternary Diagrams of Ni-Mn-Ga from First Principles. Materials Science Forum, 0, 845, 130-133.	0.3	1
157	Density of States of Co- and Cr-Doped Ni_{2.0}Mn_{1.5}Sn_{0.5} Heusler Alloys. Materials Science Forum, 0, 845, 162-165.	0.3	0