

# Vladimir Sokolovskiy

## List of Publications by Year in descending order

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157  
papers

2,711  
citations

304743

22  
h-index

206112

48  
g-index

163  
all docs

163  
docs citations

163  
times ranked

1440  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and magnetic phase transitions in shape-memory alloys $Ni_{2+x}Mn_{1-x}Ga$ . Physical Review B, 1999, 59, 1113-1120.	3.2	401
2	Modelling the phase diagram of magnetic shape memory Heusler alloys. Journal Physics D: Applied Physics, 2006, 39, 865-889.	2.8	306
3	Phase transitions in $Ni_{2+x}Mn_{1-x}Ga$ with a high Ni excess. Physical Review B, 2005, 72, .	3.2	176
4	Monte Carlo study of the influence of antiferromagnetic exchange interactions on the phase transitions of ferromagnetic $Ni-Mn-X$ alloys		

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19	Correlation effects on ground-state properties of ternary Heusler alloys: First-principles study. <i>Physical Review B</i> , 2019, 99, .	3.2	28
20	Coulomb correlation in noncollinear antiferromagnetic $\text{Ni}_{1\pm}\text{Mn}$ . <i>Physical Review B</i> , 2020, 101, .	3.2	27
21	Quaternary $\text{NiCoMnIn}$ Heusler alloys: a way to achieve materials with better magnetocaloric properties?. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 305003.	2.8	24
22	Properties and Decomposition of Heusler Alloys. <i>Energy Technology</i> , 2018, 6, 1478-1490.	3.8	24
23	Effects of magnetic and structural phase transitions on the normal and anomalous Hall effects in $\text{Ni-Mn-In-B}$ Heusler alloys. <i>Physical Review B</i> , 2020, 101, .	3.2	24
24	The metamagnetic behavior and giant inverse magnetocaloric effect in $\text{NiCoMn}$ (Ga, In, Sn) Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 385, 193-197.	2.3	22
25	Monte Carlo and first-principles approaches for single crystal and polycrystalline $\text{Ni}_{2-x}\text{MnGa}$ Heusler alloys. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 425002.	2.8	20
26	First principles investigation of structural and magnetic properties of $\text{NiCoMnIn}$ Heusler alloys. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 164005.	2.8	18
27	Magnetic, thermal, and electrical properties of an $\text{Ni}_{45.37}\text{Mn}_{40.91}\text{In}_{13.72}$ Heusler alloy. <i>Journal of Experimental and Theoretical Physics</i> , 2016, 122, 874-882.	0.9	18
28	Effect of structural disorder on the ground state properties of $\text{Co}_2\text{CrAl}$ Heusler alloy. <i>Physica B: Condensed Matter</i> , 2017, 519, 82-89.	2.7	16
29	Novel Achievements in the Research Field of Multifunctional Shape Memory $\text{Ni-Mn-In}$ and $\text{Ni-Mn-In-Z}$ Heusler Alloys. <i>Materials Science Foundations</i> , 0, 81-82, 38-76.	0.2	15
30	Monte Carlo calculations of the phase transformations and the magnetocaloric properties in Heusler $\text{NiCoMnGa}$ alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1597-1600.	2.3	14
31	Theoretical treatment and direct measurements of magnetocaloric effect in $\text{Ni}_{2.19}\text{Fe}_x\text{Mn}_{0.81}\text{Ga}$ Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 343, 6-12.	2.3	14
32	Tuning magnetic exchange interactions to enhance magnetocaloric effect in $\text{Ni}_{50}\text{Mn}_{34}\text{In}_{16}$ Heusler alloy: Monte Carlo and ab initio studies. <i>International Journal of Refrigeration</i> , 2014, 37, 273-280.	3.4	14
33	Magnetocaloric effect and magnetic phase diagram of $\text{Ni-Mn-Ga}$ Heusler alloy in steady and pulsed magnetic fields. <i>Journal of Alloys and Compounds</i> , 2022, 904, 164051.	5.5	14
34	Electronic structure beyond the generalized gradient approximation for $\text{Ni}_{2-x}\text{MnGa}$ . <i>Physical Review B</i> , 2020, 102, .	2.2	13
35	Magnetocaloric Effect in Metals and Alloys. <i>Physics of Metals and Metallography</i> , 2022, 123, 315-318.	1.0	13
36	Effect of disorder on magnetic properties and martensitic transformation of Co-doped $\text{Ni-Mn-Al}$ Heusler alloy. <i>Intermetallics</i> , 2018, 102, 132-139.	3.9	12

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37	Segregation tendency of Heusler alloys. <i>Physical Review Materials</i> , 2019, 3, .	2.4	12
38	Review of Modern Theoretical Approaches for Study of Magnetocaloric Materials. <i>Physics of Metals and Metallography</i> , 2022, 123, 319-374.	1.0	12
39	Ab initio calculations of structural and magnetic properties of Ni-Co-Mn-Cr-Sn supercell. <i>Intermetallics</i> , 2017, 87, 55-60.	3.9	11
40	First principles study of the structural and magnetic properties of Fe(Rh, Pd) and Fe(Rh, Ni) alloys. <i>Materials Today: Proceedings</i> , 2017, 4, 4642-4646.	1.8	11
41	Probing Structural and Magnetic Instabilities and Hysteresis in Heuslers by Density Functional Theory Calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700296.	1.5	11
42	Magnetic states of Ni <sub>2</sub> MnZ and Ni <sub>2</sub> CrZ (Z = Al, As, Bi, Ga, Ge, In, P, Pb, Sb, Si, Sn, Tl) Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 459, 78-83.	2.3	11
43	First-principles and Monte Carlo studies of the Ni <sub>2</sub> (Mn,Cr)Ga Heusler alloys electronic and magnetic properties. <i>Materials Research Express</i> , 2017, 4, 026105.	1.6	10
44	Ternary diagrams of magnetic properties of Ni-Mn-Ga Heusler alloys from ab initio and Monte Carlo studies. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 470, 64-68.	2.3	10
45	Exchange-correlation corrections for electronic properties of half-metallic Co <sub>2</sub> FeSi and nonmagnetic semiconductor CoFeTiAl. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	10
46	Magnetocaloric effect in Ni-Co-Mn-(Sn, Al) Heusler alloys: Theoretical study. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 459, 295-300.	2.3	9
47	Ab initio study of magnetic and structural properties of Fe-Ga alloys. <i>EPJ Web of Conferences</i> , 2018, 185, 04013.	0.3	9
48	Magnetocaloric properties of Ni <sub>2</sub> Mn <sub>1-x</sub> Ga with coupled magnetostructural phase transition. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	9
49	Structural and Magnetic Properties of Mn <sub>2</sub> NiZ (Z = Ga, In, Sn, Sb) Heusler Alloys from Ab Initio Calculations. <i>Solid State Phenomena</i> , 2015, 233-234, 229-232.	0.3	8
50	Magnetic properties and martensitic transformation of Ni <sub>2</sub> Mn <sub>1-x</sub> Ge Heusler alloys from first-principles and Monte Carlo studies. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 195001.	2.8	8
51	Ab Initio Study of the Structural, Magnetic, Electronic, and Thermodynamic Properties of Pd <sub>2</sub> MnZ (Z = ) Tj ETQq1 1 0,6784314rgBT /Over	0.6	8
52	Magnetic properties of Fe <sub>100-x</sub> Ga : Ab initio and Monte Carlo study. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 470, 118-122.	2.3	8
53	Prediction of giant magnetocaloric effect in Ni <sub>40</sub> Co <sub>10</sub> Mn <sub>36</sub> Al <sub>14</sub> Heusler alloys: An insight from ab initio and Monte Carlo calculations. <i>Journal of Applied Physics</i> , 2020, 127, 163901.	2.5	8
54	Prediction of a Heusler alloy with switchable metal-to-half-metal behavior. <i>Physical Review B</i> , 2021, 103, .	3.2	8

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55	Magnetocaloric and Shape Memory Effects in the Mn <sub>2</sub> NiGa Heusler Alloy. Physics of the Solid State, 2020, 62, 815-820.	0.6	8
56	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
57	Monte Carlo modeling of exchange bias effect in Ni <sub>50</sub> Mn <sub>25+x</sub> Sb <sub>25-x</sub> Heusler alloys. Journal of Physics: Conference Series, 2011, 303, 012084.	0.4	7
58	Monte Carlo Study of the Magnetic and Magnetocaloric Properties of La <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> (x = 0.33 and 0.5). Solid State Phenomena, 2012, 190, 347-350.	0.3	7
59	First Principles Investigation of Magnetic Properties of Fe-Ni-Mn-Al Heusler Alloys. Physics Procedia, 2015, 75, 1427-1434.	1.2	7
60	First-principles study of the structural and magnetic properties of the Ni <sub>45</sub> Co <sub>5</sub> Mn <sub>39</sub> Sn <sub>11</sub> Heusler alloy. Journal of Magnetism and Magnetic Materials, 2015, 383, 180-185.	2.3	7
61	Magnetostriction of Fe <sub>100-x</sub> Ga <sub>x</sub> alloys from first principles calculations. Journal of Magnetism and Magnetic Materials, 2019, 476, 120-123.	2.3	7
62	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
63	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
64	Modeling of the structural and magnetic properties of Fe-Rh-(Z) (Z = Mn, Pt) alloys by first principles methods. Journal of Magnetism and Magnetic Materials, 2019, 470, 69-72.	2.3	7
65	First-principles investigations of caloric effects in ferroic materials. , 2012, , .		6
66	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
67	Modeling of heat transfer processes in Ni <sub>2</sub> MnIn magnetic wires. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 390-398.	1.8	6
68	First Principles Study of the Structural and Magnetic Properties of Cr-Doped Ni <sub>1.75</sub> Co <sub>0.25</sub> Mn <sub>1.5</sub> In <sub>0.5</sub> Heusler Alloys. Materials Science Forum, 0, 845, 138-141.		6
69	Investigation of electronic, magnetic and structural properties of the Fe <sub>1-x</sub> Mn <sub>x</sub> Rh. Journal of Magnetism and Magnetic Materials, 2019, 476, 325-328.	2.3	6
70	Design of a Stable Heusler Alloy with Switchable Metal-Half-Metal Transition at Finite Temperature. Advanced Theory and Simulations, 2021, 4, 2100311.	2.8	6
71	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
72	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

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73	First-Principles Calculations of Magnetic Properties of Cr-Doped Ni <sub>45</sub> Co <sub>5</sub> Mn <sub>37</sub> In <sub>13</sub> Heusler Alloys. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
74	Ab initio study of the composite phase diagram of Ni-Mn-Ga shape memory alloys. Journal of Experimental and Theoretical Physics, 2017, 125, 104-110.	0.9	5
75	The Effect of Anti-Site Disorder on Structural and Magnetic Properties of Ni-Co-Mn-In Alloys: <i>Ab Initio</i> and Monte Carlo Studies. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	5
76	Superconducting and antiferromagnetic properties of dual-phase V <sub>3</sub> Ga. Applied Physics Letters, 2020, 117, 062401.	3.3	5
77	Compositional trends in Ni-Mn-Ga Heusler alloys: first-principles approach. MATEC Web of Conferences, 2015, 33, 05005.	0.2	4
78	First principles study of structural and magnetic properties in Fe <sub>100-x</sub> Ge alloys. Physica B: Condensed Matter, 2020, 580, 411934.	2.7	4
79	Phase Transformations in Ni(Co)-Mn(Cr,C)-(In,Sn) Alloys: An Ab Initio Study. Physics of Metals and Metallography, 2020, 121, 202-209.	1.0	4
80	A Ternary Map of Ni-Mn-Ga Heusler Alloys from Ab Initio Calculations. Metals, 2021, 11, 973.	2.3	4
81	Theoretical Approach to Investigation of the Magnetic and Magnetocaloric Properties of Heusler Ni-Mn-Ga Alloys. Physics of the Solid State, 2020, 62, 785-792.	0.6	4
82	Complex investigations of phase diagram of Ni-Pt-Mn-Ga Heusler alloys. Letters on Materials, 2018, 8, 21-26.	0.7	4
83	Publisher's Note: First-principles investigation of chemical and structural disorder in magnetic Ni <sub>2</sub> Mn <sub>1+x</sub> Sn <sub>1-x</sub> Heusler alloys [Phys. Rev. B86, 134418 (2012)]. Physical Review B, 2013, 87, .	3.2	3
84	<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
85	Investigation of structural and magnetic properties of Heusler Fe <sub>2+x</sub> Mn <sub>1-x</sub> Al alloys by first principles method. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 979-983.	0.8	3
86	First Principles Calculations of Magnetic Exchange Parameters of Fe-Mn-Al Heusler Alloys. Solid State Phenomena, 0, 215, 131-136.	0.3	3
87	Magnetic States of the Ni <sub>1.75</sub> Co <sub>0.25</sub> Mn <sub>1.25</sub> Cr <sub>0.25</sub> In <sub>0.75</sub> Heusler Alloy. IEEE Transactions on Magnetics, 2015, 51, 1-4.		
88	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
89	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
90	<i>Ab Initio</i> 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

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91	Monte Carlo Simulations of Thermal Hysteresis in Ni-Mn-Based Heusler Alloys. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700265.	1.5	3
92	Structural and magnetic properties of heusler alloys Pd <sub>2</sub> MnZ (Z=Ga, Ge, As): AB INITIO study. <i>EPJ Web of Conferences</i> , 2018, 185, 05007.	0.3	3
93	Phase Diagram of Fe-Al Alloys: A Study from First Principles. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2019, 83, 844-846.	0.6	3
94	Correlation effects in the ground state of Ni-(Co)-Mn-Sn Heusler compounds. <i>MRS Advances</i> , 2019, 4, 441-446.	0.9	3
95	Phase transitions in Fe-( <sup>23</sup> ~ <sup>24</sup> )Ga alloys: Experimental results and modeling. <i>Journal of Alloys and Compounds</i> , 2021, 885, 160917.	5.5	3
96	Theoretical study of heat transfer processes in Heusler-type magnetic microwires. <i>Letters on Materials</i> , 2019, 9, 395-399.	0.7	3
97	Structural and magnetic properties of Fe-Al alloys: Ab Initio studies. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 557, 169437.	2.3	3
98	Exchange Correlation Effects in Modulated Martensitic Structures of the Mn <sub>2</sub> NiGa Alloy. <i>Physics of Metals and Metallography</i> , 2022, 123, 375-380.	1.0	3
99	Magnetocaloric Effect in Ni-Mn-Ga and Ni-Co-Mn-In Heusler Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1200, 69.	0.1	2
100	Monte Carlo Study of Magnetostructural Phase Transitions in Ni <sub>50</sub> Mn <sub>25+x</sub> Sb <sub>25-x</sub> Heusler Alloys. <i>Solid State Phenomena</i> , 2009, 154, 139-144.	0.3	2
101	The modeling of phase diagrams and premartensitic effects in Heusler Ni-Mn-Ga alloy by Monte Carlo method. <i>Physics Procedia</i> , 2010, 10, 132-137.	1.2	2
102	The Magnetocaloric Effect in Ni-Mn-X (X=Ga, In) Heusler Alloys and Manganites with Magnetic Transition close to Room Temperature. <i>Solid State Phenomena</i> , 2010, 168-169, 165-168.	0.3	2
103	Large magnetocaloric effects in magnetic intermetallics: First-principles and Monte Carlo studies. <i>MATEC Web of Conferences</i> , 2015, 33, 02001.	0.2	2
104	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
105	Probing Structural and Magnetic Instabilities and Hysteresis in Heuslers by Density Functional Theory Calculations ( <i>Phys. Status Solidi B</i> 2/2018). <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1870108.	1.5	2
106	Monte Carlo simulations of hysteresis effects at the martensitic transformation. <i>Physica B: Condensed Matter</i> , 2019, 575, 411692.	2.7	2
107	Peculiarities of phonons in Ni-Mn-Ga alloys: Ab initio studies. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 470, 73-76.	2.3	2
108	Statistical model for the martensitic transformation simulation in Heusler alloys. <i>Physica B: Condensed Matter</i> , 2020, 578, 411874.	2.7	2

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109	Structural, magnetic and electronic properties of FeRh <sub>1-x</sub> Pd <sub>x</sub> compounds: Ab initio study. Physica B: Condensed Matter, 2020, 578, 411882.	2.7	2
110	Ab Initio Studies of Phase Transformations in Fe <sub>100-x</sub> Si <sub>x</sub> . Physics of the Solid State, 2020, 62, 739-743.	0.6	2
111	A Study of the Structure and Magnetic Properties of FeRh <sub>1-x</sub> Ir <sub>x</sub> (x = 0.5) Alloys by First-Principles Methods. Physics of the Solid State, 2020, 62, 963-967.	0.6	2
112	First-Principles Study of the Structure and Properties of Fe <sub>3</sub> Pd and FePdRh Alloys. Shape Memory and Superelasticity, 2020, 6, 61-66.	2.2	2
113	Magnetic and structural properties of Co-Ni-Zr Heusler alloys. $Zr_{0.784314}Co_{1.0}Ni_{1.0}Fe_{50.587}Td$	2.3	2
114	Monte-Carlo Calculation of the Magnetocaloric Effect in Ni-Mn-Ga Alloys. Solid State Phenomena, 0, 152-153, 493-496.	0.3	1
115	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
116	Monte Carlo study of magnetocaloric properties of Ni-Mn-Ga Heusler alloys. Journal of Physics: Conference Series, 2010, 200, 032008.	0.4	1
117	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
118	Ab initio study of magnetic properties of Fe-Mn-Al Heusler alloys. Materials Research Society Symposia Proceedings, 2013, 1581, 1.	0.1	1
119	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
120	Interaction of phase transformation and magneto- and elastocaloric properties of Heusler alloys. Materials Research Society Symposia Proceedings, 2013, 1581, 1.	0.1	1
121	Theoretical prediction of the spin glass behavior in the low-temperature phase of Ni <sub>2</sub> Mn <sub>1.36</sub> In <sub>0.64</sub> Heusler alloy. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1110-1115.	0.8	1
122	First principles study of the structural properties of Ni <sub>1.75</sub> Co <sub>0.25</sub> Mn <sub>1.5-x</sub> Cr <sub>x</sub> In <sub>0.5</sub> Heusler alloy. MATEC Web of Conferences, 2015, 33, 02002.	0.2	1
123	Magnetic states of C-doped Ni <sub>43.75</sub> Co <sub>6.25</sub> Mn <sub>37.5</sub> In <sub>12.5</sub> Heusler alloys. MATEC Web of Conferences, 2015, 33, 05001.	0.2	1
124	First-principles and Monte Carlo studies of C-doped Ni <sub>45</sub> Co <sub>5</sub> Mn <sub>37</sub> In <sub>13</sub> Heusler alloys. MATEC Web of Conferences, 2015, 33, 05004.	0.2	1
125	Monte Carlo Study of the Polycrystalline Ni <sub>2</sub> MnGa Heusler Alloy. Solid State Phenomena, 2015, 233-234, 251-254.	0.3	1
126	Ternary Diagrams of Ni-Mn-Ga from First Principles. Materials Science Forum, 0, 845, 130-133.	0.3	1



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127	Structural, magnetic and electronic properties of Ni-Mn-Ga-Cr Heusler alloys: ab initio and Monte Carlo studies. <i>Materials Today: Proceedings</i> , 2017, 4, 4621-4625.	1.8	1
128	Phenomenological analysis of thermal hysteresis in Ni-Mn-Ga Heusler alloys. <i>Phase Transitions</i> , 2018, 91, 469-476.	1.3	1
129	Structural, magnetic and thermodynamic properties of Mn <sub>3</sub> -X-C (X = Ga, Sn) compounds: ab initio study. <i>Physica B: Condensed Matter</i> , 2018, 549, 94-97.	2.7	1
130	Investigation of structural and magnetic properties of Fe-Rh-(Z) (Z = Co, Pt) alloys by first principles method. <i>EPJ Web of Conferences</i> , 2018, 185, 05005.	0.3	1
131	First-Principles Study of the Structure and Magnetic Properties of Fe <sub>8</sub> Rh <sub>8-x</sub> Z <sub>x</sub> (Z = Mn, Pt, Co; x = 1). <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 556, 169403.	0.6	1
132	Phase transitions in Fe <sub>3</sub> Al-based alloys: ab initio study. <i>Phase Transitions</i> , 2020, 93, 43-53.	1.3	1
133	Modelling of Rhombohedral Magnetostriction in Fe-Ga Alloys. <i>Bulletin of the South Ural State University, Series: Mathematical Modelling, Programming and Computer Software</i> , 2019, 12, 158-165.	0.4	1
134	Segregation tendency and properties of FeRh <sub>1</sub> -Pt alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 556, 169403.	2.3	1
135	Study of Magnetocaloric Properties of Ni-Mn-X (X = Ga, In) Heusler Alloys by Monte Carlo Technique. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1200, 96.	0.1	0
136	Monte Carlo Simulations of the Exchange Bias Effect in Heusler Ni <sub>50</sub> Mn <sub>37.5</sub> Sb <sub>12.5</sub> Alloys Using Real Unit Cell. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1310, 1.	0.1	0
137	Modeling of the Magnetocaloric Effect in Heusler Ni-Mn-X (X = In, Sn, Sb) Alloys Using Antiferromagnetic Five-State Potts Model with Competing Interactions. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1310, 1.	0.1	0
138	Theoretical Study of Twin Boundary Motion in Heusler Ni-Mn-Ga Alloys Using Monte Carlo Method. <i>Solid State Phenomena</i> , 0, 190, 327-330.	0.3	0
139	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. <i>Materials Science Forum</i> , 0, 738-739, 461-467.	0.3	0
140	The Supercell Scaling Investigation of Magnetic Properties in Ni-Mn-X (X=Ga, In, Sn, Sb) Heusler Alloys by Means of First-principles Methods. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1581, 1.	0.1	0
141	Ab initio calculations of structural and magnetic properties of Ni-Co-Mn-Cr-Sn alloys. <i>MATEC Web of Conferences</i> , 2015, 33, 05003.	0.2	0
142	First Principles and Monte Carlo Calculations of Structural and Magnetic Properties of Fe <sub>x</sub> Ni <sub>2-x</sub> Mn <sub>1+y</sub> Al <sub>1-y</sub> Heusler Alloys. <i>MATEC Web of Conferences</i> , 2015, 33, 05002.	0.2	0
143	First-principles calculations of magnetic properties of Cr-doped Ni <sub>45</sub> Co <sub>5</sub> Mn <sub>37</sub> In <sub>13</sub> Heusler alloys. , 2015, , .		0
144	The magnetic states of the Ni <sub>1.75</sub> Co <sub>0.25</sub> Mn <sub>1.25</sub> Cr <sub>0.25</sub> In <sub>0.5</sub> Heusler alloy. , 2015, , .		

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145	Density of States of Co- and Cr-Doped Ni <sub>2.0</sub> Mn <sub>1.5</sub> Sn <sub>0.5</sub> Heusler Alloys. Materials Science Forum, 0, 845, 162-165.	0.3	0
146	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
147	Large change of magnetic moment in Ni <sub>13</sub> Co <sub>3</sub> Mn <sub>13</sub> Sn <sub>3</sub> and Ni <sub>13</sub> Co <sub>3</sub> Mn <sub>13</sub> Sn <sub>2</sub> Al <sub>1</sub> Heusler alloys at martensitic transitions. Investigation from first principles., 2017, , .		0
148	The effect of antisite disorder on magnetic and magnetocaloric properties of Ni-Co-Mn-In alloys: ab initio and Monte Carlo studies. , 2018, , .		0
149	Electronic and Magnetic Properties of DyFe <sub>4</sub> Ge <sub>2</sub> Alloys near a Phase Transition. Physics of the Solid State, 2020, 62, 931-936.	0.6	0
150	Calculation of Electronic Structure and Field Induced Magnetic Collapse in Ferroic Materials. , 2015, , 405-408.		0
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