

Mikhail Zagrebin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Tumbling through tertiary education: an investigation of the use of Tumblr within a child development course. <i>Interactive Learning Environments</i> , 2022, 30, 49-57.	6.4	0
2	Prediction of a Heusler alloy with switchable metal-to-half-metal behavior. <i>Physical Review B</i> , 2021, 103, .	3.2	8
3	A Ternary Map of Ni-Mn-Ga Heusler Alloys from Ab Initio Calculations. <i>Metals</i> , 2021, 11, 973.	2.3	4
4	Phase transitions in Fe-(23~24)Ga alloys: Experimental results and modeling. <i>Journal of Alloys and Compounds</i> , 2021, 885, 160917.	5.5	3
5	Design of a Stable Heusler Alloy with Switchable Metal-Half-Metal Transition at Finite Temperature. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100311.	2.8	6
6	FIRST-PRINCIPLES STUDIES OF THE PHASE TRANSITIONS IN Fe-Si ALLOYS. <i>Bulletin of the South Ural State University Series Mathematics Mechanics Physics</i> , 2021, 13, 52-58.	0.2	0
7	Statistical model for the martensitic transformation simulation in Heusler alloys. <i>Physica B: Condensed Matter</i> , 2020, 578, 411874.	2.7	2
8	Structural, magnetic and electronic properties of FeRh _x Pd _{1-x} compounds: Ab initio study. <i>Physica B: Condensed Matter</i> , 2020, 578, 411882.	2.7	2
9	First principles study of structural and magnetic properties in Fe _{100~} Ge alloys. <i>Physica B: Condensed Matter</i> , 2020, 580, 411934.	2.7	4
10	Phase transitions in Fe ₃ Al-based alloys: ab initio study. <i>Phase Transitions</i> , 2020, 93, 43-53.	1.3	1
11	Electronic structure beyond the generalized gradient approximation for Ni ₂ Mn ₁₃ . <i>Physical Review B</i> , 2020, 102, .		
12	Boron interaction with D03 phase in Fe-(27~29)Ga alloys. <i>Intermetallics</i> , 2020, 126, 106938.	3.9	0
13	Superconducting and antiferromagnetic properties of dual-phase V3Ga. <i>Applied Physics Letters</i> , 2020, 117, 062401.	3.3	5
14	Ab Initio Studies of Phase Transformations in Fe _{100~} Al _x Si ₆ . <i>Physics of the Solid State</i> , 2020, 62, 739-743.	0.6	2
15	Exchange-correlation corrections for electronic properties of half-metallic Co ₂ FeSi and nonmagnetic semiconductor CoFeTiAl. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	10
16	Electronic and Magnetic Properties of DyFe ₄ Ge ₂ Alloys near a Phase Transition. <i>Physics of the Solid State</i> , 2020, 62, 931-936.	0.6	0
17	A Study of the Structure and Magnetic Properties of FeRh _{1~} Al _x (x = 0.5~1) Alloys by First-Principles Methods. <i>Physics of the Solid State</i> , 2020, 62, 963-967.	0.6	2
18	First-Principles Study of the Structure and Properties of Fe ₃ Pd and Fe-Pd-Rh Alloys. <i>Shape Memory and Superelasticity</i> , 2020, 6, 61-66.	2.2	2

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19	Effects of magnetic and structural phase transitions on the normal and anomalous Hall effects in Ni-Mn-In-B Heusler alloys. <i>Physical Review B</i> , 2020, 101, .	3.2	24
20	Coulomb correlation in noncollinear antiferromagnetic $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \pm \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Mn. <i>Physical Review B</i> , 2020, 101, .	3.2	27
21	Prediction of giant magnetocaloric effect in Ni ₄₀ Co ₁₀ Mn ₃₆ Al ₁₄ Heusler alloys: An insight from ab initio and Monte Carlo calculations. <i>Journal of Applied Physics</i> , 2020, 127, 163901.	2.5	8
22	Phase Transformations in Ni(Co)Mn(Cr,C)(In,Sn) Alloys: An Ab Initio Study. <i>Physics of Metals and Metallography</i> , 2020, 121, 202-209.	1.0	4
23	Theoretical Approach to Investigation of the Magnetic and Magnetocaloric Properties of Heusler NiMnGa Alloys. <i>Physics of the Solid State</i> , 2020, 62, 785-792.	0.6	4
24	VOLUME MAGNETOSTRICTION OF FE-GA ALLOYS: CALCULATION FROM FIRST PRINCIPLES. <i>Bulletin of the South Ural State University Series Mathematics Mechanics Physics</i> , 2020, 12, 57-62.	0.2	0
25	Structural and Elastic Properties of Fe-Ge Alloys: ab initio studies. <i>Bulletin of the South Ural State University Series Mathematics Mechanics Physics</i> , 2020, 12, 49-56.	0.2	0
26	Phase Diagram of FeAl Alloys: A Study from First Principles. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2019, 83, 844-846.	0.6	3
27	Correlation effects in the ground state of Ni-(Co)-Mn-Sn Heusler compounds. <i>MRS Advances</i> , 2019, 4, 441-446.	0.9	3
28	Monte Carlo simulations of hysteresis effects at the martensitic transformation. <i>Physica B: Condensed Matter</i> , 2019, 575, 411692.	2.7	2
29	Correlation effects on ground-state properties of ternary Heusler alloys: First-principles study. <i>Physical Review B</i> , 2019, 99, .	3.2	28
30	Ab initio study of DyFe ₄ Ge ₂ alloy. <i>Journal of Physics: Conference Series</i> , 2019, 1389, 012085.	0.4	1
31	The effect of exchange-correlation potentials on magnetic properties of Fe-(Ga, Ge, Al) alloys. <i>Journal of Physics: Conference Series</i> , 2019, 1389, 012087.	0.4	4
32	First-principles study of the structure and properties of Fe-Rh-Ir alloys. <i>Journal of Physics: Conference Series</i> , 2019, 1389, 012091.	0.4	0
33	Phase diagram of magnetostrictive Fe-Ga alloys: insights from theory and experiment. <i>Phase Transitions</i> , 2019, 92, 101-116.	1.3	33
34	Magnetostriction of Fe _{100-x} Ga _x alloys from first principles calculations. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 476, 120-123.	2.3	7
35	Investigation of electronic, magnetic and structural properties of the Fe _{1-x} Mn _x Rh. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 476, 325-328.	2.3	6
36	First-principles study of Ni-Co-Mn-Sn alloys with regular and inverse Heusler structure. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 476, 546-550.	2.3	7

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37	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
38	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
39	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
40	Peculiarities of phonons in Ni-Mn-Ga alloys: Ab initio studies. Journal of Magnetism and Magnetic Materials, 2019, 470, 73-76.	2.3	2
41	Magnetic properties of Fe _{100-x} Ga _x : Ab initio and Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2019, 470, 118-122.	2.3	8
42	Theoretical study of heat transfer processes in Heusler-type magnetic microwires. Letters on Materials, 2019, 9, 395-399.	0.7	3
43	Ab Initio Calculation of Vacancy Formation Energy in Antiperovskite Mn ₃ GaC. Bulletin of the South Ural State University Series Mathematics Mechanics Physics, 2019, 11, 58-64.	0.2	0
44	FIRST-PRINCIPLES INVESTIGATIONS OF REFERENCE STATES OF Co ₂ CrIn HEUSLER ALLOYS. Bulletin of the South Ural State University Series Mathematics Mechanics Physics, 2019, 11, 59-66.	0.2	0
45	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
46	Phenomenological analysis of thermal hysteresis in Ni-Mn-Ga Heusler alloys. Phase Transitions, 2018, 91, 469-476.	1.3	1
47	Structural, magnetic and thermodynamic properties of Mn ₃ -X-C (X = Ga, Sn) compounds: ab initio study. Physica B: Condensed Matter, 2018, 549, 94-97.	2.7	1
48	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
49	Magnetic states of Ni ₂ MnZ and Ni ₂ CrZ (Z = 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
50	Monte Carlo Simulations of Thermal Hysteresis in Ni-Mn-Based Heusler Alloys. Physica Status Solidi (B): Basic Research, 2018, 255, 1700265.	1.5	3
51	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
52	The Effect of Anti-Site Disorder on Structural and Magnetic Properties of Ni ₂ CoMnIn Alloys: Ab Initio and Monte Carlo Studies. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	5
53	Ab Initio Study of the Structural, Magnetic, Electronic, and Thermodynamic Properties of Pd ₂ MnZ (Z = Tj, ET, Qq, 1, 0, 0, 784314, rgBT / Overlock 10	0.6	0
54	First-Principles Study of the Structure and Magnetic Properties of Fe ₈ Rh _{8-x} Z _x (Z = Mn, Pt, Co; x = 1,) Tj ETQq 0,0 rgBT / Overlock 10	0,0	1

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55	Ab initio study of magnetic and structural properties of Fe-Ga alloys. EPJ Web of Conferences, 2018, 185, 04013.	0.3	9
56	Ternary phase diagram of Ni-Mn-Ga: insights from ab initio calculations. EPJ Web of Conferences, 2018, 185, 05012.	0.3	1
57	Structural and magnetic properties of heusler alloys Pd ₂ MnZ (Z=Ga, Ge, As): AB INITIO study. EPJ Web of Conferences, 2018, 185, 05007.	0.3	3
58	Complex investigations of phase diagram of Ni-Pt-Mn-Ga Heusler alloys. Letters on Materials, 2018, 8, 21-26.	0.7	4
59	First-principles and Monte Carlo studies of the Ni ₂ (Mn,Cr)Ga Heusler alloys electronic and magnetic properties. Materials Research Express, 2017, 4, 026105.	1.6	10
60	Magnetic properties and martensitic transformation of Ni ²⁺ Mn ²⁺ Ge Heusler alloys from first-principles and Monte Carlo studies. Journal Physics D: Applied Physics, 2017, 50, 195001.	2.8	8
61	Ab initio calculations of structural and magnetic properties of Ni-Co-Mn-Cr-Sn supercell. Intermetallics, 2017, 87, 55-60.	3.9	11
62	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
63	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
64	Ab initio study of the composite phase diagram of Ni ²⁺ Mn ²⁺ Ge shape memory alloys. Journal of Experimental and Theoretical Physics, 2017, 125, 104-110.	0.9	5
65	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
66	Ab initio study of magnetic properties of Fe _{1-x} Ga _x alloys. , 2017, , .		0
67	Large change of magnetic moment in Ni ₁₃ Co ₃ Mn ₁₃ Sn ₃ and Ni ₁₃ Co ₃ Mn ₁₃ Sn ₂ Al Heusler alloys at martensitic transitions: Investigation from first principles. , 2017, , .		0
68	Electronic and magnetic properties of the Co ₂ -based Heusler compounds under pressure: first-principles and Monte Carlo studies. Journal Physics D: Applied Physics, 2016, 49, 355004.	2.8	41
69	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
70	Ab initio calculations of structural and magnetic properties of Ni-Co-Mn-Cr-Sn alloys. MATEC Web of Conferences, 2015, 33, 05003.	0.2	0
71	Compositional trends in Ni-Mn-Ga Heusler alloys: first-principles approach. MATEC Web of Conferences, 2015, 33, 05005.	0.2	4
72	First Principles and Monte Carlo Calculations of Structural and Magnetic Properties of Fe _x Ni _{2-x} Mn _{1+y} Al _{1-y} Heusler Alloys. MATEC Web of Conferences, 2015, 33, 05002.	0.2	0

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73	First Principles Investigation of Magnetic Properties of Fe-Ni-Mn-Al Heusler Alloys. Physics Procedia, 2015, 75, 1427-1434.	1.2	7
74	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
75	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
76	First principles investigation of structural and magnetic properties of Ni ₂ CoMnIn Heusler alloys. Journal Physics D: Applied Physics, 2015, 48, 164005.	2.8	18
77	Structural and Magnetic Properties of Mn ₂ NiZ (Z = Ga, In, Sn, Sb) Heusler Alloys from Ab Initio Calculations. Solid State Phenomena, 2015, 233-234, 229-232.	0.3	8
78	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
79	Thermodynamic analysis of possible phase states in Ni ₅₀ Mn ₃₅ In ₁₅ Heusler alloy. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1144-1148.	0.8	0
80	Investigation of structural and magnetic properties of Heusler Fe _{2+x} Mn _{1-x} Al alloys by first principles method. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 979-983.	0.8	3
81	Publisher's Note: First-principles investigation of chemical and structural disorder in magnetic Ni ₂ Mn _{1+x} Sn _{1-x} Heusler alloys [Phys. Rev. B86, 134418 (2012)]. Physical Review B, 2013, 87, .	3.2	3
82	Ab initio study of magnetic properties of Fe-Mn-Al Heusler alloys. Materials Research Society Symposia Proceedings, 2013, 1581, 1.	0.1	1
83	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
84	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
85	Monte Carlo Study of the Magnetic and Magnetocaloric Properties of La _{1-x} Ca _x MnO ₃ (x = 0.33 and 0.5). Solid State Physics	0.3	7
86	First-principles investigation of chemical and structural disorder in magnetic Ni ₂ Mn _{1+x} Sn _{1-x} Heusler alloys [Phys. Rev. B86, 134418 (2012)]. Physical Review B, 2013, 87, .	3.2	111
87	Phy Monte Carlo Simulations of the Exchange Bias Effect in Heusler Ni ₅₀ Mn _{37.5} Sb _{12.5} Alloys Using Real Unit Cell. Materials Research Society Symposia Proceedings, 2011, 1310, 1.	0.1	0
88	Phase diagrams of Ni _{2+x} Mn _{1-x} Ga Heusler alloys from Hubbard Hamiltonian with account of Jahn-Teller effect. Materials Research Society Symposia Proceedings, 2011, 1310, 1.	0.1	0
89	The phase diagram of Ni ₂ Mn _{1-x} 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
90	Phase transitions in Heusler alloys with exchange inversion. Journal of Magnetism and Magnetic Materials, 2008, 320, e175-e178.	2.3	6

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91	New Heusler alloys with a metamagnetostructural phase transition. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 564-568.	0.6	5
92	Phase diagrams of Heusler alloys with inversion of the exchange interaction. JETP Letters, 2007, 85, 560-564.	1.4	9
93	The phase diagrams of Ni ²⁺ Mn ²⁺ Ga alloys in the magnetic field. Journal of Magnetism and Magnetic Materials, 2007, 313, 312-316.	2.3	6
94	Phase transitions in Ni ²⁺ Mn ²⁺ Ga alloys with the account of crystal lattice modulation. Journal of Magnetism and Magnetic Materials, 2007, 316, e591-e594.	2.3	12
95	<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
96	First Principles Calculations of Magnetic Exchange Parameters of Fe-Mn-Al Heusler Alloys. Solid State Phenomena, 0, 215, 131-136.	0.3	3
97	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
98	Ternary Diagrams of Ni-Mn-Ga from First Principles. Materials Science Forum, 0, 845, 130-133.	0.3	1
99	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