

Evgeny G Gerasimov

List of Publications by Year in descending order

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papers

754
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567281

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure effect on magnetic phase transitions in $\text{La}_{0.75}\text{Sm}_{0.25}\text{Mn}_2\text{Si}_2$. <i>Physical Review B</i> , 2005, 72, .	3.2	34
2	Structure, magnetic and magnetothermal properties of the non-stoichiometric ErCo_2Mn alloys. <i>Journal of Alloys and Compounds</i> , 2016, 680, 359-365.	5.5	23
3	Magnetic anisotropy and ferro-antiferromagnetic phase transition in LaMn_2Si_2 . <i>Physica B: Condensed Matter</i> , 2002, 322, 297-305.	2.7	21
4	$\text{TbxEr}_{1-x}\text{Ni}_5$ compounds: An ideal model system for competing Ising-XY anisotropy energies. <i>Physical Review B</i> , 2009, 79, .	3.2	21
5	Magnetic-field-induced martensitic transformations in $\text{Ni}_{47-x}\text{Mn}_{42+x}\text{In}_{11}$ alloys (with $0 \leq x \leq 2$). <i>Physics of Metals and Metallography</i> , 2013, 114, 838-844.	1.0	21
6	Magnetic properties of the off-stoichiometric GdNi_2Mn_x alloys. <i>Journal of Alloys and Compounds</i> , 2013, 571, 132-137.	5.5	21
7	Magnetic phase transitions and giant magnetoresistance in $\text{La}_{1-x}\text{Sm}_x\text{Mn}_2\text{Si}_2$ ($0 \leq x \leq 1$). <i>Journal of Alloys and Compounds</i> , 2002, 343, 14-25.	5.5	20
8	Magnetism of compounds with a layered crystal structure. <i>Physics of Metals and Metallography</i> , 2011, 112, 711-744.	1.0	19
9	Effect of low-temperature annealing on the critical parameters of highly textured $\text{YBa}_2\text{Cu}_3\text{O}_y$. <i>Physics of the Solid State</i> , 2012, 54, 1741-1746.	0.6	19
10	Enhanced survival of short-range magnetic correlations and frustrated interactions in $\text{R}_3\text{T}_2\text{Mn}_3$ intermetallics. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 1907-1912.	2.3	19
11	Interrelation between electronic structure and interatomic distances for compounds. <i>Physica B: Condensed Matter</i> , 2007, 390, 118-123.	2.7	18
12	Magnetic properties and structure of nonstoichiometric rare-earth transition-metal intermetallic compounds TbNi_2Mn_x ($0 \leq x \leq 1.5$). <i>Physics of Metals and Metallography</i> , 2010, 110, 210-217.	1.0	18
13	Improvement of critical parameters of $\text{YBa}_2\text{Cu}_3\text{O}_{6.9}$ by low temperature treatment in the presence of water vapors. <i>Cryogenics</i> , 2015, 72, 36-43.	1.7	18
14	Effect of double annealing on the critical parameters of highly textured $\text{YBa}_2\text{Cu}_3\text{O}_{6.9}$. <i>Journal of Experimental and Theoretical Physics</i> , 2012, 115, 474-479.	0.9	17
15	Martensitic transformations and magnetic properties of nonstoichiometric alloys of the Ni-Mn-In system. <i>Physics of the Solid State</i> , 2014, 56, 1634-1638.	0.6	17
16	New magnetic structure study of TbNi_5 : Evidence of incommensurate structure. <i>Europhysics Letters</i> , 2003, 62, 350-356.	2.0	15
17	Local magnetic moments at X-ray spectra of 3d metals. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 256, 396-403.	2.3	14
18	Preparation of sintered Nd-Fe-B magnets by pressless process. <i>Physics of Metals and Metallography</i> , 2012, 113, 331-340.	1.0	13

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19	Magnetic properties of melt-spun ribbons $(\text{Sm}_{1-x}\text{Zr}_x)(\text{Fe}_{0.92}\text{Ti}_{0.08})_{10}$ with ThMn_{12} structure and their hydrides. <i>Journal of Rare Earths</i> , 2019, 37, 1066-1071.	4.8	13
20	Magnetic properties of $\text{Tb}_{1-x}\text{Y}_x\text{Mn}_6\text{Sn}_6$ compounds. <i>Journal of Alloys and Compounds</i> , 2004, 363, 40-45.	5.5	12
21	Magnetic phase transitions in TbNi_5 single crystal: Bulk properties and neutron diffraction studies. <i>JETP Letters</i> , 2005, 82, 34-38.	1.4	12
22	Structure, Magnetic and Magnetocaloric Properties of Nonstoichiometric TbCo_2Mn_x Compounds. <i>Physics of Metals and Metallography</i> , 2018, 119, 1036-1042.	1.0	12
23	Ab initio study of the magnetic properties of possible phases in binary Fe-Pd alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 499, 166266.	2.3	12
24	Hydrostatic pressure effect on electrical and magnetic properties of electron-doped $\text{R}_{0.16}\text{Ca}_{0.84}\text{MnO}_3$ ($\text{R}=\text{Pr}, \text{Gd}, \text{Eu}$). <i>Physica B: Condensed Matter</i> , 2005, 365, 114-120.	2.7	11
25	Effect of hydrogen intercalation on the critical parameters of $\text{YBa}_2\text{Cu}_3\text{O}_y$. <i>Physics of Metals and Metallography</i> , 2017, 118, 954-964.	1.0	11
26	Magnetostriction and thermal expansion of nonstoichiometric TbCo_2Mn compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 523, 167628.	2.3	11
27	Enhanced magnetic entropy in GdNi_2 . <i>Physical Review B</i> , 2007, 75, .	3.2	10
28	Magnetic and magnetocaloric properties of $(\text{MnCo})_{1-x}\text{Ge}$ compounds. <i>Physics of Metals and Metallography</i> , 2013, 114, 893-903.	1.0	10
29	Magnetostriction of $\text{La}_{0.75}\text{Sm}_{0.25}\text{Mn}_2\text{Si}_2$ compound. <i>Journal of Alloys and Compounds</i> , 2016, 676, 74-79.	5.5	10
30	Preparation of high-power permanent magnets from platelike Nd-Fe-B alloys. <i>Physics of Metals and Metallography</i> , 2010, 109, 238-246.	1.0	9
31	Electronic structure of RMn_2Si_2 ($\text{R}=\text{Y}, \text{La}$) intermetallics: DFT and XPS studies. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1663-1671.	5.5	9
32	Competing exchange interactions and magnetic anisotropy of $\text{La}_{1-x}\text{Tb}_x\text{Mn}_2\text{Si}_2$. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 422, 237-242.	2.3	9
33	Magnetic structure of $\text{La}_1\text{-Tb}_x\text{Mn}_2\text{Si}_2$ compounds. <i>Journal of Alloys and Compounds</i> , 2018, 731, 397-402.	5.5	9
34	Magnetocaloric effect, heat capacity and exchange interactions in nonstoichiometric $\text{Er}_{0.65}\text{Gd}_{0.35}\text{Co}_2\text{Mn}$ compounds. <i>Intermetallics</i> , 2022, 140, 107386.	3.9	9
35	Positive magnetoresistance and large magnetostriction at first-order antiferro-ferromagnetic phase transitions in RMn_2Si_2 compounds. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 445219.	1.8	8
36	Effect of additions of zinc stearate on the properties of sintered Nd-Fe-B magnets. <i>Physics of Metals and Metallography</i> , 2013, 114, 285-294.	1.0	8

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37	Structure, magnetic and magnetocaloric properties of nonstoichiometric TbCo ₂ Ni _x compounds. <i>Physics of Metals and Metallography</i> , 2017, 118, 1059-1065.	1.0	8
38	Structure and Magnetic Properties of Heat-Resistant Sm(Co _{0.796} ~ ^x Fe _{0.177} Cu _x Zr _{0.027}) _{6.63} Permanent Magnets with High Coercivity. <i>Jom</i> , 2019, 71, 559-566.	1.9	8
39	Influence of the two-stage plastic deformation on the complex of the magnetoacoustic characteristics of low-carbon steel and diagnostics of its structural state. <i>NDT and E International</i> , 2020, 116, 102330.	3.7	8
40	Magnetic phase transitions in layered intermetallic compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3410-3412.	2.3	7
41	Magnetic phase transitions in the Ce(Fe _{1 - x} Si _x) ₂ compounds. <i>Physics of Metals and Metallography</i> , 2014, 115, 1208-1215.	1.0	7
42	Magnetic phase transitions and magnetocaloric effect in layered intermetallic La _{0.75} Sm _{0.25} Mn ₂ Si ₂ compound. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 440, 89-92.	2.3	7
43	Structure and Properties of Sm - Co - Fe - Cu - Zr Magnets for High-Temperature Applications. <i>Metal Science and Heat Treatment</i> , 2018, 60, 498-503.	0.6	7
44	Effect of Tb for Gd substitution on magnetic and magnetocaloric properties of melt-spun (Gd _{1-x} Tb _x) ₃ Co alloys. <i>Intermetallics</i> , 2019, 104, 1-7.	3.9	7
45	Magnetic Properties of Nonstoichiometric 4f - 3d Intermetallics. <i>Physics of Metals and Metallography</i> , 2019, 120, 1347-1353.	1.0	7
46	Magnetic anisotropy of La _{0.75} Sm _{0.25} Mn ₂ Si ₂ compound. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 486202.	1.8	6
47	Heat capacity of the Ni ₅₀ Mn ₃₇ (In _{0.2} Sn _{0.8}) ₁₃ alloy. <i>Journal of Physics: Conference Series</i> , 2011, 266, 012004.	0.4	6
48	Magnetic Properties of Non-Stoichiometric $(\text{Ni}_{1-x}\text{Mn}_x)_2(\text{R})$ ($\text{R} = \text{Tb, Dy}$) Compounds. <i>Solid State Phenomena</i> , 0, 168-169, 200-203.	0.3	5
49	Concentrational commensurate-incommensurate magnetic phase transition in Y _{1 - x} Tb _x Mn ₆ Sn ₆ . <i>Physics of Metals and Metallography</i> , 2013, 114, 566-572.	1.0	5
50	Giant magnetoresistance and field-induced phase transitions in Tb ₇ Rh ₃ single crystal. <i>Journal of the Korean Physical Society</i> , 2013, 63, 563-566.	0.7	5
51	Impact of amorphization on the magnetic state and magnetocaloric properties of Gd ₃ Ni. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 1403-1407.	2.3	5
52	Kinetics of hydrogen desorption from MgH ₂ and AlH ₃ hydrides. <i>Physics of Metals and Metallography</i> , 2015, 116, 1197-1202.	1.0	5
53	Giant magnetoresistance and field-induced magnetic phase transitions in Gd ₇ Rh ₃ studied on single crystals. <i>Journal of Alloys and Compounds</i> , 2015, 628, 230-235.	5.5	5
54	Structural and magnetic transformations in Ni _{51 - x} Mn _{36 + x} Sn ₁₃ alloys. <i>Physics of the Solid State</i> , 2015, 57, 381-385.	0.6	5

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55	Effect of rapid quenching on the magnetic state, electrical resistivity and thermomagnetic properties of Gd ₃ Co. <i>Journal of Alloys and Compounds</i> , 2015, 647, 481-485.	5.5	5
56	Structural state and magnetic properties of multilayer-graphene/Fe composites. <i>Physics of Metals and Metallography</i> , 2016, 117, 143-150.	1.0	5
57	Magnetic field induced ferromagnetism in pseudobinary PrAl ₂ ^x Nix alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 404, 133-142.	2.3	5
58	Magnetic order, phase transitions and electrical resistivity of Ho ₇ Rh ₃ single crystals. <i>Journal of Alloys and Compounds</i> , 2016, 654, 126-132.	5.5	5
59	Martensite Transformation, Magnetotransport Properties, and Magnetocaloric Effect in Ni ₄₇ Mn ₄₂ In ₁₁ Alloy. <i>Physics of the Solid State</i> , 2019, 61, 654-658.	0.6	5
60	Origin of magnetic phase transition in RMn ₂ Si ₂ (R = Rare-earth ion or Y) intermetallics. <i>Computational Materials Science</i> , 2020, 184, 109901.	3.0	5
61	Heterogeneous magnetic state of quasi-binary rare earth intermetallic compounds with CaCu ₅ - and MgCu ₂ -type structures. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 140-144, 859-860.	2.3	4
62	Metamagnetic transitions in electron-doped single crystals of manganites Ca _{1-x} Ln _x MnO ₃ (Ln = La, Ce; x = 0.12). <i>Journal of Physics Condensed Matter</i> , 2010, 22, 356003.	1.8	4
63	Electrical, magnetic properties and electronic structure of non-stoichiometric DyNi ₂ Mn _x compounds. <i>Journal of Physics: Conference Series</i> , 2012, 400, 032050.	0.4	4
64	Resonant photoemission in DyNi ₂ Mn _x rare-earth intermetallics. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2013, 77, 226-229.	0.6	4
65	Electronic magnetic structure of intermetallic compounds RNi ₂ Mn studied by XMCD. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 440, 50-53.	2.3	4
66	Phase transitions and thermal expansion in Ni _{51-x} Mn ₃₆ + x Sn ₁₃ alloys. <i>Physics of the Solid State</i> , 2017, 59, 2002-2007.	0.6	4
67	Influence of water vapor on the formation of pinning centers in YBa ₂ Cu ₃ O _y upon low-temperature annealing. <i>Physics of Metals and Metallography</i> , 2017, 118, 738-748.	1.0	4
68	Magnetic ordering in intermetallic La _{1-x} Tb _x Mn ₂ Si ₂ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 454, 144-149.	2.3	4
69	Magnetic properties of the TbNi ₂ Mn _x (0 ≤ x ≤ 1) cubic structure compounds. <i>Journal of Physics: Conference Series</i> , 2010, 200, 032049.	0.4	3
70	Effect of structural water on the critical characteristics of highly textured YBa ₂ Cu ₃ O _{6.9} . <i>Physics of the Solid State</i> , 2014, 56, 1742-1747.	0.6	3
71	Effect of thermal cycling on structure and properties of Ni-Mn-In-based alloys. <i>Technical Physics</i> , 2016, 61, 1894-1897.	0.7	3
72	Electrical resistivity, magnetism and electronic structure of the intermetallic 3d/4f Laves phase compounds ErNi ₂ Mn _x . <i>AIP Advances</i> , 2018, 8, 105225.	1.3	3

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73	Martensitic Transformation and Magnetic Transport Properties in Ni ₅₀ Mn ₃₇ Sn ₁₃ Alloy. Physics of Metals and Metallography, 2020, 121, 894-898.	1.0	3
74	Magnetic structure and properties of LaFe ₁₃ À€“xGaxC compounds (x=2.9, 6.5). Journal of Magnetism and Magnetic Materials, 2006, 302, 165-172.	2.3	2
75	Magneto-resistance of Ni ₅₀ Mn ₃₇ (Sn _{1-x} In _x) ₁₃ Alloys. Solid State Phenomena, 2010, 168-169, 204-207.	0.3	2
76	Magnetic phase transitions in Y _{1-x} Tb _x Mn ₆ Sn ₆ , La _{1-x} Sm _x Mn ₂ Si ₂ , Lu ₂ (Fe _{1-x} Ni _x) ₁₇ , and La(Fe) _{Tj} ETQq0.0.0 rgBT 383, 196-202.	2.3	2
77	Magnetic structures and magnetic phase transitions in RMn ₂ Si ₂ . AIP Advances, 2018, 8, 101411.	1.3	2
78	Effects of spin polarization on resonant photoemission from d-f states in TbNi ₂ Mnx compounds. EPJ Web of Conferences, 2018, 185, 04008.	0.3	2
79	Magnetic Structures and Magnetic Phase Transitions in Rare-Earth RMn ₂ Si ₂ Intermetallic Compounds (R = Sm, Tb). Physics of the Solid State, 2018, 60, 1082-1089.	0.6	2
80	Magnetic Neutron Diffraction of Quasi-Two-Dimensional Magnets. Crystallography Reports, 2021, 66, 267-280.	0.6	2
81	Martensitic Transformation, Magnetotransport Properties, and Magnetocaloric Effect in Ni ₄₇ À€“xMn ₄₂ À€“xIn ₁₁ Alloys (0 ≤ x ≤ 2). Physics of the Solid State, 2021, 63, 550-555.	0.6	2
82	Magnetic structure of La _{0.75} Sm _{0.25} Mn ₂ Si ₂ . Physica B: Condensed Matter, 2004, 350, E175-E178.	2.7	1
83	Low-temperature heat capacity of microscopically inhomogeneous PdMn _x Fe _{1-x} alloys. Physics of the Solid State, 2006, 48, 291-296.	0.6	1
84	Heat capacity of La _{1-x} Y _x Mn ₂ Si ₂ compounds. Journal of Magnetism and Magnetic Materials, 2007, 310, e563-e565.	2.3	1
85	Features of properties of microinhomogeneous PdMn _x Fe _{1-x} alloys. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 1066-1068.	0.6	1
86	Spontaneous and Field-Induced Magnetic Phase Transitions in Tb _{1-x} R _x Mn ₆ Sn ₆ (R = Gd, Y) Compounds. Solid State Phenomena, 2009, 152-153, 37-40.	0.3	1
87	Effect of gallium on the crystal structure and magnetic properties of PrFe _{11-x} Ga _x C _y compounds. Physics of Metals and Metallography, 2009, 108, 441-448.	1.0	1
88	Magnetic phase transitions in La _{1-x} Dy _x Mn ₂ Si ₂ (0 ≤ x ≤ 1) compounds. Journal of Physics: Conference Series, 2010, 200, 032018.	0.4	1
89	Magnetic Phase Transitions in La _{1-x} R _x Mn ₂ Si ₂ (R = Gd, Tb, Dy) Compounds. Solid State Phenomena, 2012, 190, 171-174.	0.3	1
90	Magnetocrystalline anisotropy of Er ₂ (Fe _{1-x} V _x) ₁₇ compounds. Physics of Metals and Metallography, 2015, 116, 768-773.	1.0	1

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91	Effect of water intercalation on the structure and electrophysical properties of YBa ₂ Cu ₃ O _{6.9} . Physics of Metals and Metallography, 2016, 117, 870-875.	1.0	1
92	Magnetic Phase Transitions in Compounds with a Layered Crystal Structure. Physics of Metals and Metallography, 2018, 119, 1309-1312.	1.0	1
93	Exchange-induced spin reorientation in La _{1-x} Gd _x Mn ₂ Si ₂ . Journal of Alloys and Compounds, 2018, 769, 1096-1101.	5.5	1
94	Magnetic properties of the non-stoichiometric TbCo ₂ Mn _x and TbCo ₂ Ni _x alloys. Journal of Physics: Conference Series, 2019, 1389, 012092.	0.4	1
95	Easy-plane magnetic anisotropy in layered GdMn ₂ Si ₂ compound with easy-axis magnetocrystalline anisotropy. Journal of Alloys and Compounds, 2020, 818, 152902.	5.5	1
96	Investigation of Electronic States and Magnetic Domain Structure of La _{1-x} Sm _x Mn ₂ Si ₂ (x = 0, 0.25) Layered Intermetallic Compounds by Resonant Photoemission Spectroscopy and Magnetic Force Microscopy. Physics of Metals and Metallography, 2022, 123, 451-458.	1.0	1
97	Commensurate-incommensurate magnetic phase transition induced in TbNi ₅ by an external magnetic field. Physics of Metals and Metallography, 2012, 113, 228-232.	1.0	0
98	Magnetic lock-in phase transition in Tb _{0.95} Er _{0.05} Ni ₅ driven by low magnetic fields. Journal of Magnetism and Magnetic Materials, 2013, 341, 129-132.	2.3	0
99	Crystal structure and magnetic properties of pseudobinary solid solutions Pr(In _{1-x} Pb _x) ₃ . Physics of Metals and Metallography, 2013, 114, 721-726.	1.0	0
100	Magnetic properties of the non-stoichiometric TbCo ₂ Ni _x alloys. EPJ Web of Conferences, 2018, 185, 04021.	0.3	0
101	Compositional genesis of ferromagnetism in alloys PrNi _{2-x} Co _x . Journal of Magnetism and Magnetic Materials, 2019, 490, 165489.	2.3	0
102	Spontaneous and induced magnetic phase transitions in Tb _{0.9} Er _{0.1} Ni ₅ . Journal of Magnetism and Magnetic Materials, 2019, 475, 593-601.	2.3	0
103	Martensitic transformation and magnetotransport properties of Ni ₄₇ Mn ₄₂ In ₁₁ alloy. Journal of Physics: Conference Series, 2019, 1389, 012093.	0.4	0
104	Incommensurate-commensurate magnetic phase transitions in Tb _{1-x} Er _x Ni ₅ compounds. Journal of Physics: Conference Series, 2019, 1389, 012127.	0.4	0
105	Resonant photoemission of intermetallic compounds RMn ₂ Si ₂ (R = Sm, Tb). AIP Conference Proceedings, 2022, , .	0.4	0