

Pavel B Terentev

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Kinetics of interaction of Mg-based mechanically activated alloys with hydrogen. <i>Physics of Metals and Metallography</i> , 2006, 102, 421-431.	1.0	41
2	Kinetic Properties and Half-Metallic Magnetism in Mn ₂ YAl Heusler Alloys. <i>Journal of Experimental and Theoretical Physics</i> , 2019, 128, 919-925.	0.9	25
3	Structure, magnetic and magnetothermal properties of the non-stoichiometric ErCo ₂ Mn alloys. <i>Journal of Alloys and Compounds</i> , 2016, 680, 359-365.	5.5	23
4	Magnetic-field-induced martensitic transformations in Ni _{47-x} Mn _{42+x} In ₁₁ alloys (with 0 ≤ x ≤ 2). <i>Physics of Metals and Metallography</i> , 2013, 114, 838-844.	1.0	21
5	Magnetic properties of the off-stoichiometric GdNi ₂ Mn _x alloys. <i>Journal of Alloys and Compounds</i> , 2013, 571, 132-137.	5.5	21
6	A cluster-glass magnetic state in R ₅ Pd ₂ (R = Ho, Tb) compounds evidenced by AC-susceptibility and neutron scattering measurements. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 236003.	1.8	21
7	Magnetic anisotropy of the Nd ₂ Fe ₁₄ B compound and its hydride Nd ₂ Fe ₁₄ BH ₄ . <i>Physics of Metals and Metallography</i> , 2007, 103, 39-50.	1.0	19
8	Magnetic properties and structure of nonstoichiometric rare-earth transition-metal intermetallic compounds TbNi ₂ Mn _x (0 ≤ x ≤ 1.5). <i>Physics of Metals and Metallography</i> , 2010, 110, 210-217.	1.0	18
9	Severe plastic deformation and hydrogenation of the titanium aluminides. <i>Journal of Alloys and Compounds</i> , 2011, 509, 9307-9311.	5.5	15
10	Magnetic anisotropy of Tb _{1-x} Gd _x Mn ₆ Sn ₆ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 836-844.	2.3	14
11	Magnetic properties of melt-spun ribbons (Sm _{1-x} Zr _x)(Fe _{0.92} Ti _{0.08}) ₁₀ with ThMn ₁₂ structure and their hydrides. <i>Journal of Rare Earths</i> , 2019, 37, 1066-1071.	4.8	13
12	Structure, Magnetic and Magnetocaloric Properties of Nonstoichiometric TbCo ₂ Mn _x Compounds. <i>Physics of Metals and Metallography</i> , 2018, 119, 1036-1042.	1.0	12
13	Effect of hydrogen intercalation on the critical parameters of YBa ₂ Cu ₃ O _y . <i>Physics of Metals and Metallography</i> , 2017, 118, 954-964.	1.0	11
14	Experimental observation of anomalies in the electrical, magnetic, and galvanomagnetic properties of cobalt-based Heusler alloys with varying transition elements. <i>Low Temperature Physics</i> , 2019, 45, 789-794.	0.6	11
15	Magnetostriction and thermal expansion of nonstoichiometric TbCo ₂ Mn compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 523, 167628.	2.3	11
16	Competing exchange interactions and magnetic anisotropy of La _{1-x} Tb _x Mn ₂ Si ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 422, 237-242.	2.3	9
17	Magnetic structure of La _{1-x} Tb _x Mn ₂ Si ₂ compounds. <i>Journal of Alloys and Compounds</i> , 2018, 731, 397-402.	5.5	9
18	Magnetocaloric effect, heat capacity and exchange interactions in nonstoichiometric Er _{0.65} Gd _{0.35} Co ₂ Mn compounds. <i>Intermetallics</i> , 2022, 140, 107386.	3.9	9

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19	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
20	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
21	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
22	Magnetic phase transitions in layered intermetallic compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3410-3412.	2.3	7
23	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
24	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
25	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
26	Magnetic Properties of Nonstoichiometric 4f-3d Intermetallics. <i>Physics of Metals and Metallography</i> , 2019, 120, 1347-1353.	1.0	7
27	Crystal structure of ErFe ₂ D _{3.1} and ErFe ₂ H _{3.1} at 450K. <i>Journal of Alloys and Compounds</i> , 2010, 508, 348-353.	5.5	6
28	Hydrogen ordering in rare-earth intermetallic (Er, Tb)Fe ₂ compounds with giant spontaneous magnetostriction. <i>Physics of Metals and Metallography</i> , 2013, 114, 985-991.	1.0	6
29	Magnetic Properties of Non-Stoichiometric $R_{2-x}Ni_2Mn_x$ ($R = Tb, Dy$) Compounds. <i>Solid State Phenomena</i> , 0, 168-169, 200-203.	0.3	5
30	Structural and magnetic properties of ErFe ₂ D _{3.1} . <i>Journal of Alloys and Compounds</i> , 2012, 538, 79-84.	5.5	5
31	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
32	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
33	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
34	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
35	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
36	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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37	Effect of rapid quenching on the magnetic state, electrical resistivity and thermomagnetic properties of Gd ₃ Co. Journal of Alloys and Compounds, 2015, 647, 481-485.	5.5	5
38	Structural state and magnetic properties of multilayer-graphene/Fe composites. Physics of Metals and Metallography, 2016, 117, 143-150.	1.0	5
39	Magnetic order, phase transitions and electrical resistivity of Ho ₇ Rh ₃ single crystals. Journal of Alloys and Compounds, 2016, 654, 126-132.	5.5	5
40	Martensite Transformation, Magnetotransport Properties, and Magnetocaloric Effect in Ni ₄₇ Mn ₄₂ In ₁₁ Alloy. Physics of the Solid State, 2019, 61, 654-658.	0.6	5
41	Magnetic Properties and Structure of Products from 1.4540 Stainless Steel Manufactured by 3D Printing. Physics of Metals and Metallography, 2019, 120, 1270-1275.	1.0	5
42	Use of mechanoactivation for obtaining hydrides of titanium aluminides. Physics of Metals and Metallography, 2008, 105, 460-470.	1.0	3
43	Magnetic properties of the TbNi ₂ Mn _x (0 ≤ x ≤ 1) cubic structure compounds. Journal of Physics: Conference Series, 2010, 200, 032049.	0.4	3
44	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
45	Structural and Magnetic Phase Transitions in ErFe ₂ H _x Hydrides. Solid State Phenomena, 0, 152-153, 33-36.	0.3	2
46	Hydrogen dynamics in Ce ₂ Fe ₁₇ H ₅ : inelastic and quasielastic neutron scattering studies. Journal of Physics Condensed Matter, 2011, 23, 405402.	1.8	2
47	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 _{1-x} Ti _x) ₁₀ Q ₁ . Journal of Alloys and Compounds, 2017, 720, 277-283.	2.3	2
48	Hydrogen dynamics in the hexagonal Ho ₂ Fe ₁₇ H ₄ and Y ₂ Fe ₁₇ H _{4.2} : Inelastic and quasielastic neutron scattering studies. Journal of Alloys and Compounds, 2017, 720, 277-283.	5.5	2
49	Effect of Hydrogen Intercalation on the Structure of YBa ₂ Cu ₃ O _y with a Low Oxygen Content. Physics of Metals and Metallography, 2018, 119, 887-892.	1.0	2
50	Magnetic structures and magnetic phase transitions in RMn ₂ Si ₂ . AIP Advances, 2018, 8, 101411.	1.3	2
51	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
52	Strong changes in electronic transport and magnetic properties of Co ₂ YSi Heusler alloys at Y-component variation. Journal of Physics: Conference Series, 2019, 1389, 012110.	0.4	2
53	Electrical, magnetic and galvanomagnetic properties of Mn-based Heusler alloys. Journal of Physics: Conference Series, 2019, 1389, 012150.	0.4	2
54	Magnetic Properties of Nonstoichiometric and Quasi-Binary CeFe ₂ -Based Compounds Doped with Mn. Physics of Metals and Metallography, 2019, 120, 1373-1377.	1.0	2

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55	Magnetic properties and electronic structure of $\text{CeFe}_{2-x}\text{Mn}$ and CeFe_2Mn compounds. <i>Journal of Alloys and Compounds</i> , 2021, 854, 156982.	5.5	2
56	Investigation of Magnetic Hysteresis Properties of $(\text{Sm}_{0.8}\text{Zr}_{0.2})(\text{Fe}_{0.72}\text{Co}_{0.24}\text{Ti}_{0.04})_{10}$ Melt-Spun Ribbons. <i>Metal Science and Heat Treatment</i> , 2021, 62, 566-571.	0.6	2
57	Spontaneous and Field-Induced Magnetic Phase Transitions in $\text{Tb}_{1-x}\text{R}_x\text{Mn}_6\text{Sn}_6$ (R = Gd, Y) Compounds. <i>Solid State Phenomena</i> , 2009, 152-153, 37-40.	0.3	1
58	Magnetocrystalline anisotropy of $\text{Er}_2(\text{Fe}_{1-x}\text{V}_x)_{17}$ compounds. <i>Physics of Metals and Metallography</i> , 2015, 116, 768-773.	1.0	1
59	Structure and magnetic properties of a $\text{Ni}_3(\text{Al}, \text{Fe}, \text{Cr})$ single crystal subjected to high-temperature deformation. <i>Physics of Metals and Metallography</i> , 2016, 117, 451-459.	1.0	1
60	Mechanical and magnetic properties of alloys near the concentration range of the existence of $\text{Co}_3(\text{Al}, \text{W})$ intermetallic compound. <i>Physics of Metals and Metallography</i> , 2017, 118, 432-438.	1.0	1
61	Hydrogen in a Nonstoichiometric $\text{YBa}_2\text{Cu}_3\text{O}_{6.96}$ Compound: Study by Raman Spectroscopy. <i>Physics of Metals and Metallography</i> , 2018, 119, 643-649.	1.0	1
62	Exchange-induced spin reorientation in $\text{La}_{1-x}\text{Gd}_x\text{Mn}_2\text{Si}_2$. <i>Journal of Alloys and Compounds</i> , 2018, 769, 1096-1101.	5.5	1
63	Analysis of the Deformation Process in $\text{Ni}_3(\text{Al}, \text{Fe})$ Intermetallic under Longitudinal Bending. <i>Physics of Metals and Metallography</i> , 2018, 119, 26-34.	1.0	1
64	Magnetic properties of the non-stoichiometric TbCo_2Mn_x and TbCo_2Ni_x alloys. <i>Journal of Physics: Conference Series</i> , 2019, 1389, 012092.	0.4	1
65	Easy-plane magnetic anisotropy in layered GdMn_2Si_2 compound with easy-axis magnetocrystalline anisotropy. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152902.	5.5	1
66	Synthesis and characterisation of the crystal structure and magnetic ordering of double perovskite $\text{La}_3\text{Co}_2\text{MoO}_9$. <i>Materials Chemistry and Physics</i> , 2022, 278, 125604.	4.0	1
67	Magnetic properties of the $\text{Tm}_2\text{Fe}_{17-x}\text{Mn}_x$ single-crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 410, 1-4.	2.3	0
68	Investigation of the intermetallic $\hat{\Gamma}'_2$ (B2)-phase in the Co-Al-Si system. <i>Physics of Metals and Metallography</i> , 2017, 118, 249-255.	1.0	0
69	Magnetic properties of the non-stoichiometric TbCo_2Ni_x alloys. <i>EPJ Web of Conferences</i> , 2018, 185, 04021.	0.3	0
70	Compositional genesis of ferromagnetism in alloys $\text{PrNi}_2\text{-Co}$. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 490, 165489.	2.3	0
71	Martensitic transformation and magnetotransport properties of $\text{Ni}_{47}\text{Mn}_{42}\text{In}_{11}$ alloy. <i>Journal of Physics: Conference Series</i> , 2019, 1389, 012093.	0.4	0