

Irina Tereshina

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High-Field Magnetization Study of Laves Phase (Gd,Y,Sm)Fe ₂ -H. IEEE Magnetics Letters, 2022, 13, 1-5.	1.1	1
2	High-field magnetization studies and their analysis in RFe ₁₁ Ti and RFe ₁₁ TiH ₁ rare-earth intermetallics (an example:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 697 Td (HaFe ₁₁ TiH ₁)	0.9	1
3	Magnetic Phase Transitions in GdH _{0.15} : Some Peculiarities in the Behavior of Magnetocaloric and Magnetostrictive Effects. IEEE Magnetics Letters, 2022, 13, 1-5.	1.1	0
4	Investigation of the Field-Induced Phase Transitions in the (R,Ra ²) ₂ Fe ₁₄ B Rare-Earth Intermetallics in Ultrahigh Magnetic Fields. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	4
5	The Thermal-Magnetic Properties of Terbium Before and After Severe Plastic Deformation. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2021, 76, 104-109.	0.4	0
6	The Effect of Hydrogenation on the Magetocaloric Properties of Nanocrystalline Terbium. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2021, 76, 176-181.	0.4	0
7	Drastic reduction of the R-Fe exchange in interstitially modified (Nd,Ho) ₂ Fe ₁₄ B compounds probed by megagauss magnetic fields. Physical Review Materials, 2021, 5, .	2.4	4
8	Structural and high-field magnetic properties of Laves phase RFe ₂ -H hydrides. Journal of Applied Physics, 2021, 130, 210901.	2.5	3
9	Study of the effect of nitrogen and hydrogen on the structure and magnetic properties of (Sm,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 697 Td (HaFe ₁₁ TiH ₁)	0.4	0
10	Effect of Nd, Pr substitutional atoms on the magnetic and magnetostrictive properties in (Tb-Dy)(Fe-Co) ₂ Laves phases. Journal of Physics: Conference Series, 2021, 2103, 012196.	0.4	1
11	The Influence of Interstitial and Substitutional Atoms on the Magnetic Properties of Sm ₂ Fe ₁₇ Compound. Technical Physics Letters, 2021, 47, 624-627.	0.7	1
12	The Microstructure of the Membrane Alloy Pd-9.1 at $\mathbf{\%}$ Y. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2021, 76, 465-469.	0.4	0
13	Perspective on synthesis, structure, and magnetic properties of R ²⁺ Fe ²⁺ H hydrides. Journal of Applied Physics, 2021, 130, .	2.5	2
14	Hydrogen-induced extremely large change in Curie temperatures in layered GdTSiH (T ²⁺ =Mn, Fe, Co). Journal of Applied Physics, 2020, 128, 143903.	2.5	6
15	Crystal-Field and Exchange Parameters Obtained from the High-Field Magnetization of ErFe ₁₁ Ti: Revisited. Journal of Low Temperature Physics, 2020, 200, 164-172.	1.4	3
16	The Influence of Milling Modes on the Structure and Magnetic Properties of (Sm, Ho) ₂ Fe ₁₇ N _x (x = 0,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 697 Td (HaFe ₁₁ TiH ₁)	0.9	1
17	Magnetic and magnetoelastic properties of rare earth intermetallides based on TbFe ₂ . IOP Conference Series: Materials Science and Engineering, 2020, 905, 012071.	0.6	3
18	New Magnetic Materials Based on RNi Compounds for Cryogenic Technology. Technical Physics Letters, 2020, 46, 303-306.	0.7	1

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19	Specific Features in the Field and Temperature Dependences of the Magnetostriction of Multicomponent $\text{Sm}_{0.2}\text{Y}_{0.8}\text{Fe}_2$ Alloys. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta), Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.4	2
20	Magnetic Properties and Surface Morphology of the Intermetallic Compound $\text{Dy}_2\text{Fe}_{10}\text{Al}_7$ and Its Hydride. Physics of the Solid State, 2020, 62, 808-814.	0.6	3
21	Strengthening the Intersublattice Exchange Interaction in $\text{R}(\text{Fe,Ti})_{12}\text{N}$ (R = Ho and Er) Nitrides. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.4	1
22	Study of the Properties of SmFeCoTiH Compounds with ThMn_{12} -Type Structure by Magnetometry, Atomic Force Microscopy, and Magnetic Force Microscopy. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2020, 75, 631-637.	0.4	1
23	Substituted $(\text{Nd,Pr})_2\text{Fe}_{14}\text{B}$ alloys: structural features and magnetic properties. Journal of Physics: Conference Series, 2019, 1236, 012016.	0.4	4
24	The Influence of Hydrogenation on the Structure, Magnetic and Magnetocaloric Properties of TbDyCo Alloys with a Laves Phase Structure. Physics of the Solid State, 2019, 61, 1169-1175.	0.6	6
25	Effect of Hydrogenation on Magnetostriction and Magnetocaloric Effect in Gadolinium Single Crystal. Physics of the Solid State, 2019, 61, 90-93.	0.6	2
26	Structural, Magnetic, and Thermal Properties of the Compound $\text{Tb}_{0.8}\text{Sm}_{0.2}\text{Fe}_2$ with a Laves Phase Structure. Physics of the Solid State, 2019, 61, 2503-2508.	0.6	6
27	ThMn_{12} -type phases for magnets with low rare-earth content: Crystal-field analysis of the full magnetization process. Scientific Reports, 2018, 8, 3595.	3.3	35
28	High-Field Magnetization Study of $\text{R}_2\text{Fe}_{17}\text{N}_2$ ($\text{R} = \text{hbox}$) Tj ETQq0 0 0 rgBT /Overlock 10	1.4	6
29	Magnetic Properties of Hydrides of $\text{RNi}_{1-x}\text{Six}$ Compounds (R = Dy, Gd, x = 0.05, 0.02). Physics of the Solid State, 2018, 60, 2517-2523.	0.6	0
30	A Cascade of Phase Transitions in Amorphous FeB Films. Moscow University Physics Bulletin (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.4	0
31	Probing the exchange coupling in the complex modified Ho-Fe-B compounds by high-field magnetization measurements. AIP Advances, 2018, 8, .	1.3	21
32	Magnetic phase diagrams of Gd-H, Tb-H, Dy-H systems. EPJ Web of Conferences, 2018, 185, 05011.	0.3	4
33	Atomic-Force Microscopic Study of the Surface Morphology of the $\text{Nd}_2\text{Fe}_{14}\text{B}$ Alloys Prepared by Various Techniques. Russian Metallurgy (Metally), 2018, 2018, 859-866.	0.5	2
34	The Effect of Structural Inhomogeneities and Gas-Forming Impurities on the Functional Properties of High Purity Rare-Earth Metals. Physics of the Solid State, 2018, 60, 1115-1119.	0.6	2
35	A Numerical Model of Nitriding of a Gadolinium Specimen and Its Further Destruction during Storage. Protection of Metals and Physical Chemistry of Surfaces, 2018, 54, 308-315.	1.1	2
36	Magnetic properties of HoFe_6Al_6 with a compensation point near absolute zero: A theoretical and experimental study. Journal of Alloys and Compounds, 2017, 708, 1161-1167.	5.5	8

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37	The effect of adding aluminum and iron to Tb ² Dy ² Ho ² Co multicomponent alloys on their structure and magnetic and magnetocaloric properties. Technical Physics, 2017, 62, 577-582.	0.7	4
38	The magnetocaloric effect in hydrogen-doped Nd ₂ Fe ₁₄ B and Er ₂ Fe ₁₄ B intermetallic compounds. Doklady Physics, 2017, 62, 10-13.	0.7	9
39	Forced-ferromagnetic state in a Tm ₂ Fe ₁₇ H ₅ single crystal. Journal of Physics Condensed Matter, 2017, 29, 24LT01.	1.8	11
40	Magnetic Properties of the Nanocrystalline Nd-Ho-Fe-Co-B Alloy at Low Temperatures: The Influence of Time and Annealing. Journal of Materials Engineering and Performance, 2017, 26, 4676-4680.	2.5	22
41	Magnetic-field induced phase transitions in intermetallic rare-earth ferrimagnets with a compensation point. Low Temperature Physics, 2017, 43, 551-558.	0.6	12
42	Magnetic ordering temperature of nanocrystalline Gd: enhancement of magnetic interactions via hydrogenation-induced α -negative ϵ -pressure. Scientific Reports, 2016, 6, 22553.	3.3	37
43	Magnetostructural phase transitions and magnetocaloric effect in Tb-Dy-Ho-Co-Al alloys with a Laves phase structure. Journal of Applied Physics, 2016, 120, .	2.5	19
44	Multifunctional phenomena in sublimed dysprosium in high magnetic fields: The magnetocaloric effect and magnetostriction. Doklady Physics, 2016, 61, 168-171.	0.7	6
45	A study of nanostructure magnetosolid Nd ² Ho ² Fe ² Co ² B materials via atomic force microscopy and magnetic force microscopy. Physics of the Solid State, 2016, 58, 1862-1869.	0.6	18
46	Magnetic phase diagrams of the Tm ₂ Fe ₁₇ H system. Doklady Physical Chemistry, 2016, 469, 102-105.	0.9	3
47	Experimental simulation of a magnetic refrigeration cycle in high magnetic fields. Physics of the Solid State, 2016, 58, 81-85.	0.6	6
48	High-field magnetic behavior and forced-ferromagnetic state in an $\text{ErF}_{11}\text{TiH}_5$ single crystal. Physical Review B, 2015, 92, .	3.2	27
49	Spontaneous and external magnetic field-induced magnetostriction in RCo ₂ -based multicomponent alloys. Physics of the Solid State, 2015, 57, 2417-2422.	0.6	8
50	Properties of metamagnetic alloy Fe ₄₈ Rh ₅₂ in high magnetic fields. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 1086-1088.	0.6	11
51	Multifunctional Phenomena in Rare-Earth Intermetallic Compounds With a Laves Phase Structure: Giant Magnetostriction and Magnetocaloric Effect. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	33
52	Magnetocaloric properties of distilled gadolinium: Effects of structural inhomogeneity and hydrogen impurity. Applied Physics Letters, 2014, 104, .	3.3	30
53	Development of nanostructured magnetic materials based on high-purity rare-earth metals and study of their fundamental characteristics. Physics of the Solid State, 2014, 56, 1778-1784.	0.6	2
54	Direct measurement of magnetocaloric effect in metamagnetic Ni ₄₃ Mn _{37.9} In _{12.1} Co ₇ Heusler Alloy. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 936-938.	0.6	18

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73	Spin-reorientation transition in TbCo5. Journal of Experimental and Theoretical Physics, 2007, 105, 1230-1235.	0.9	4
74	Increase in the magnetostrictive susceptibility of Tb _{0.3} Dy _{0.67} Ho _{0.03} Fe ₂ ~ ^x Co _x alloys upon substitution of cobalt for iron. Physics of the Solid State, 2007, 49, 315-319.	0.6	6
75	X-ray and Mössbauer studies of the Tb _{0.3} Dy _{0.7} Fe ₂ ~ ^x Co _x system alloys. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2007, 62, 237-239.	0.4	5
76	Effect of hydrogenation on the magnetic and magnetoelastic properties of R ₂ Fe ₁₄ B compounds (R =) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	4
77	Interplay between hydrogenation and pressure effects in magnetism of Lu ₂ Fe ₁₇ single crystal. High Pressure Research, 2006, 26, 485-487.	1.2	4
78	Effect of hydrogenation on magnetic phase transitions in the Er ₂ Fe ₁₄ B single crystal. Doklady Physics, 2005, 50, 346-348.	0.7	2
79	Effect of Hydrogenation on the Magnetic and Magnetoelastic Properties of the Tb _[sub 0.27] Dy _[sub 0.73] Fe _[sub 2] and Tb _[sub 0.27] Dy _[sub 0.73] Co _[sub 2] Compounds with Compensated Magnetic Anisotropy. Physics of the Solid State, 2005, 47, 1909.	0.6	8
80	Spin reorientation in high magnetic fields and the Co-Gd exchange field in GdCo ₅ . Physical Review B, 2004, 70, .	3.2	29
81	Effect of hydrogen on the magnetic characteristics of Nd ₂ Fe ₁₄ B single crystal. Physica Status Solidi A, 2003, 196, 317-320.	1.7	16
82	Specific features in magnetic resistivity of RFe ₁₁ Ti single crystals. Physica Status Solidi (B): Basic Research, 2003, 236, 462-465.	1.5	1
83	Nitrogen-containing compounds RFe ₁₁ TiN _x (R = Gd or Lu). Physics of the Solid State, 2003, 45, 104-108.	0.6	2
84	Effect of interstitial atoms on the effective exchange fields in ferrimagnetic rare-earth and 3d transition metal compounds R ₂ Fe ₁₇ and RFe ₁₁ Ti. Physics of the Solid State, 2003, 45, 1944-1951.	0.6	6
85	Effect of pressure and interstitial atoms on magnetic properties of LuFe ₁₁ Ti Intermetallics. High Pressure Research, 2003, 23, 161-164.	1.2	0
86	Magnetic anisotropy and Mössbauer effect studies of YFe ₁₁ and YFe ₁₁ TiH. Journal of Physics Condensed Matter, 2003, 15, .	1.8	0
87	Structure and temperature dependence of the magnetization of the DyFe ₁₁ Ti nanocrystalline compound. Physics of the Solid State, 2002, 44, 1723-1726.	0.6	2
88	Spin reorientation and crystal field in the single-crystal hydride HoFe ₁₁ TiH. Physical Review B, 2001, 63, .	3.2	24
89	The effect of hydrogen on the magnetostriction of rare-earth compounds Tb _x Dy _{1-x} Fe ₂ . Low Temperature Physics, 2001, 27, 297-299.	0.6	2
90	Effect of hydrogenation on spin-reorientation phase transitions and magnetic anisotropy constants of RFe ₁₁ Ti single crystals (R=Lu, Ho, and Er). Physics of the Solid State, 2001, 43, 290-299.	0.6	7

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91	Specific features in thermal expansion of RFe ₁₁ Ti single crystals. Physics of the Solid State, 2001, 43, 1273-1277.	0.6	3
92	Magnetic anisotropy and magnetostriction in a Lu ₂ Fe ₁₇ intermetallic single crystal. Physics of the Solid State, 2001, 43, 1720-1727.	0.6	26
93	Magnetic anisotropy and Mössbauer effect studies of YFe ₁₁ Ti and YFe ₁₁ TiH. Journal of Physics Condensed Matter, 2001, 13, 8161-8170.	1.8	28
94	Magnetostriction in the vicinity of spin-reorientation phase transitions in singlecrystal DyFe ₁₁ Ti. Physics of the Solid State, 1999, 41, 1508-1510.	0.6	6
95	Magnetic anisotropy of YFe ₁₁ Ti and its hydride. Physics of the Solid State, 1998, 40, 258-262.	0.6	14
96	Investigation of spin-reorientation phase transitions in single-crystal DyFe ₁₁ Ti. Physics of the Solid State, 1998, 40, 643-644.	0.6	1
97	Low-Temperature Magnetic Hysteresis in Nd(Pr)-Fe-B Nanostructured Alloys with Nd ₂ Fe ₁₄ B Type Main Phase Composition. Defect and Diffusion Forum, 0, 386, 125-130.	0.4	5
98	Comparative High-Field Magnetization Study of (Sm,Er) ₂ Fe ₁₇ and Er ₂ Fe ₁₇ Compounds and their Nitrides. Materials Science Forum, 0, 1037, 148-153.	0.3	0
99	Magnetic Properties of Nanocrystalline (Nd,R)-(Fe,Co)-B (R = Pr, Ho) Alloys after Melt Spinning, Severe Plastic Deformation and Heat Treatment. Solid State Phenomena, 0, 312, 235-243.	0.3	0
100	The Structure and Magnetic Properties of (Sm,Er)-Fe-N Powders Prepared by Ball Milling. Key Engineering Materials, 0, 910, 841-848.	0.4	0