

# Evgenia Tereshina-Chitrova

## List of Publications by Year in descending order

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	High-Field Magnetization Study of Laves Phase (Gd,Y,Sm)Fe <sub>2</sub> -H. IEEE Magnetics Letters, 2022, 13, 1-5.	1.1	1
2	Influence of substitutions and hydrogenation on the structural and magnetic properties of (R <sup>TM</sup> ) <sub>2</sub> Fe <sub>17</sub> (R <sup>TM</sup> , R <sup>TM</sup> = Sm, Er, Ho): Compositions with promising fundamental characteristics. Journal of Alloys and Compounds, 2022, 897, 163228.	3.5	5
3	Low-Temperature Magnetothermodynamics Performance of Tb <sub>1-x</sub> Er <sub>x</sub> Ni <sub>2</sub> Laves-Phases Compounds for Designing Composite Refrigerants. Crystals, 2022, 12, 931.	2.2	3
4	Mixed H <sub>2</sub> O/H <sub>2</sub> plasma-induced redox reactions of thin uranium oxide films under UHV conditions. Dalton Transactions, 2021, 50, 12583-12591.	3.3	6
5	The influence of small hydrogen addition on the structural and magnetocaloric properties of high-purity nanocrystalline terbium. International Journal of Hydrogen Energy, 2021, 46, 14556-14564.	7.1	2
6	Influence of interstitial and substitutional atoms on magnetocaloric effects in RNi compounds. Materials Chemistry and Physics, 2021, 264, 124455.	4.0	10
7	Magnetocaloric and M <sup>ss</sup> bauer effects studies of the multicomponent Tb-Dy-Ho-Co-Fe-H compounds with a Laves phase structure near the Curie temperature. Journal of Alloys and Compounds, 2021, 868, 159056.	5.5	2
8	XPS, UPS, and BIS study of pure and alloyed $\hat{I}^2$ -UH <sub>3</sub> films: Electronic structure, bonding, and magnetism. Journal of Electron Spectroscopy and Related Phenomena, 2020, 239, 146904.	1.7	8
9	Structure and magnetic properties of (Sm,Ho) <sub>2</sub> Fe <sub>17</sub> N <sub>x</sub> (x = 0; 2.4). Journal of Magnetism and Magnetic Materials, 2020, 502, 166549.	2.3	11
10	The phenomenon of magnetic compensation in the multi-component compounds (Tb,Y,Sm)Fe <sub>2</sub> and their hydrides. Journal of Alloys and Compounds, 2020, 847, 155976.	5.5	12
11	Role of $\hat{e}$ -Pairs of Fe in Spin Alignments and Negative Thermal Expansion of Lu <sub>2</sub> Fe <sub>17</sub> -Based Intermetallic Compounds. Inorganic Chemistry, 2020, 59, 11228-11232.	4.0	9
12	High-field magnetization study of (Nd,Dy) <sub>2</sub> Fe <sub>14</sub> B: Intrinsic properties and promising compositions. Intermetallics, 2020, 124, 106840.	3.9	8
13	Enhanced magnetocaloric effect in distilled terbium and emergence of novel properties after severe plastic deformation. Scripta Materialia, 2020, 187, 340-344.	5.2	3
14	Manipulating Spin Alignments of (Y,Lu) <sub>1.7</sub> Fe <sub>17</sub> Intermetallic Compounds via Unusual Thermal Pressure. Inorganic Chemistry, 2020, 59, 5247-5251.	4.0	5
15	Nanopowders of R <sub>2</sub> Fe <sub>14</sub> B-type compounds in high magnetic fields: The effects of substitutional and interstitial atoms on inter-sublattice exchange interaction. , 2020, , .		0
16	Tailoring the ferrimagnetic-to-ferromagnetic transition field by interstitial and substitutional atoms in the R <sup>TM</sup> Fe compounds. Intermetallics, 2019, 112, 106546.	3.9	18
17	The tremendous influence of hydrogenation on magnetism of NdMnGe. Intermetallics, 2019, 115, 106619.	3.9	2
18	Effect of Hydrogenation on Magnetostriction and Magnetocaloric Effect in Gadolinium Single Crystal. Physics of the Solid State, 2019, 61, 90-93.	0.6	2

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19	Magnetocaloric properties of hydrogenated Gd, Tb and Dy. Journal of Magnetism and Magnetic Materials, 2019, 470, 41-45.	2.3	10
20	ThMn12-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
21	High-Field Magnetization Study of $R_2\text{Fe}_{17}\text{N}_2$ ( $R = \text{hbox}$ ) Tj ETQq1 1.4 0.784314 rgBT /C	1.4	0
22	Dielectric relaxation in epitaxial films of paraelectric-magnetic SrTiO3-SrMnO3 solid solution. Applied Physics Letters, 2018, 112, .	3.3	2
23	Structural, magnetic and magnetocaloric properties of HoNi2 and ErNi2 compounds ordered at low temperatures. Journal of Alloys and Compounds, 2018, 735, 1088-1095.	5.5	29
24	Probing the exchange coupling in the complex modified Ho-Fe-B compounds by high-field magnetization measurements. AIP Advances, 2018, 8, .	1.3	21
25	Features of magnetization behavior in the rare-earth intermetallic compound (Nd0.5Ho0.5)2Fe14B. Intermetallics, 2018, 98, 139-142.	3.9	17
26	Persistent values of magnetocaloric effect in the multicomponent Laves phase compounds with varied composition. Acta Materialia, 2018, 154, 303-310.	7.9	41
27	Effect of Tb and Al substitution within the rare earth and cobalt sublattices on magnetothermal properties of Dy0.5Ho0.5Co2. Journal of Magnetism and Magnetic Materials, 2017, 432, 461-465.	2.3	8
28	Magnetic properties of HoFe6Al6 with a compensation point near absolute zero: A theoretical and experimental study. Journal of Alloys and Compounds, 2017, 708, 1161-1167.	5.5	8
29	The effect of adding aluminum and iron to Tb-Dy-Ho-Co multicomponent alloys on their structure and magnetic and magnetocaloric properties. Technical Physics, 2017, 62, 577-582.	0.7	4
30	Forced-ferromagnetic state in a $\text{Tm}_{2}\text{Fe}_{17}\text{H}_{5}$ single crystal. Journal of Physics Condensed Matter, 2017, 29, 24LT01.	1.8	11
31	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
32	Magnetic properties of a Ho2Fe14Si3 single crystal. Journal of Alloys and Compounds, 2017, 694, 761-766.	5.5	1
33	Magnetic ordering temperature of nanocrystalline Gd: enhancement of magnetic interactions via hydrogenation-induced negative-pressure. Scientific Reports, 2016, 6, 22553.	3.3	37
34	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
35	Magnetic hysteresis properties of nanocrystalline (Nd,Ho)-(Fe,Co)-B alloy after melt spinning, severe plastic deformation and subsequent heat treatment. Journal of Alloys and Compounds, 2016, 681, 555-560.	5.5	33
36	Magnetic properties of HoFe6Al6H hydride: A single-crystal study. Journal of Science: Advanced Materials and Devices, 2016, 1, 152-157.	3.1	1

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37	Magnetic phase diagrams of the Tm <sub>2</sub> Fe <sub>17</sub> H system. Doklady Physical Chemistry, 2016, 469, 102-105.	0.9	3
38	Crystal structure and magnetic properties of UO <sub>2</sub> /permalloy thin films. Thin Solid Films, 2015, 591, 271-275.	1.8	4
39	High-field magnetic behavior and forced-ferromagnetic state in an ErFe <sub>11</sub> TiH single crystal. Physical Review B, 2015, 92, .	3.2	27
40	CaF <sub>2</sub> -based UO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> thin films: Crystal structure and magnetic exchange bias effect. , 2015, , .		0
41	High-field magnetization study of a HoFe <sub>6</sub> Al <sub>6</sub> single crystal. Journal of Alloys and Compounds, 2015, 648, 488-493.	5.5	3
42	Influence of Ru on magnetic properties of Y <sub>2</sub> T <sub>17</sub> (T = Fe, Co) and Y <sub>2</sub> Fe <sub>16</sub> Si single crystals. Journal of Alloys and Compounds, 2015, 621, 415-422.	5.5	3
43	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
44	Magnetocaloric properties of distilled gadolinium: Effects of structural inhomogeneity and hydrogen impurity. Applied Physics Letters, 2014, 104, .	3.3	30
45	Exchange bias in UO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> thin films above the Néel temperature of UO <sub>2</sub> . Applied Physics Letters, 2014, 105, .	3.3	10
46	Changes in magnetic state of Y <sub>2</sub> (Fe,Mn) <sub>17</sub> -H systems: Regularities and potentialities. Journal of Alloys and Compounds, 2014, 587, 739-746.	5.5	4
47	Synthesis, structure and properties of heavily Mn-doped perovskite-type SrTiO <sub>3</sub> nanoparticles. Materials Chemistry and Physics, 2014, 143, 570-577.	4.0	17
48	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
49	Experimental and theoretical study of magnetic ordering and local atomic polarization in Ru-substituted Lu <sub>2</sub> Fe <sub>17</sub> . Physical Review B, 2014, 89, .	3.2	6
50	Strong room-temperature easy-axis anisotropy in Tb <sub>2</sub> Fe <sub>17</sub> compound. Applied Physics Letters, 2014, 104, .	3.2	29
51	Magnetic anisotropy in intermetallic compounds containing both uranium and 3d-metal. Physics of Metals and Metallography, 2013, 114, 727-733.	1.0	2
52	Basic mechanisms of magnetic-anisotropy change under hydrogenation of the Tb <sub>2</sub> Fe <sub>17</sub> compound. Doklady Physics, 2013, 58, 528-532.	0.7	1
53	Variation of the intersublattice exchange coupling due to hydrogen absorption in Er <sub>2</sub> Fe <sub>14</sub> B: A high-field magnetization study. Journal of Applied Physics, 2012, 111, 093923.	2.5	24
54	Magnetocaloric effect in single crystal Nd <sub>2</sub> Co <sub>7</sub> . Journal of Applied Physics, 2011, 109, .	2.5	11

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55	Hydrogenation effect on the hysteresis properties of rapidly quenched Nd-Ho-Fe-Co-B alloys. Journal of Alloys and Compounds, 2011, 509, S835-S838.	5.5	9
56	High-field magnetization of a Dy <sub>2</sub> Fe <sub>14</sub> Si <sub>3</sub> single crystal. Journal of Alloys and Compounds, 2011, 509, 5042-5046.	5.5	4
57	Magnetostriction in (Tb <sub>0.45</sub> Dy <sub>0.55</sub> ) <sub>1-x</sub> Er <sub>x</sub> Co <sub>2</sub> (x = 0.4) Tj ETQ 1 1 0.78	0.4	14
58	Magnetocaloric effect in (Tb,Dy) <sub>x</sub> (Co,Fe) <sub>2</sub> (x = Ho, Er) multicomponent compounds. Journal of Physics: Conference Series, 2011, 266, 012077.	0.4	14
59	Influence of Ru on Magnetism of $R_{2}Fe_{17}$ ( $R = \text{Lu, and Er}$ ). IEEE Transactions on Magnetics, 2011, 47, 3610-3613.	2.1	6
60	High-Field Magnetization Study of $R_{2}Fe_{17}H_{3}$ ( $R = \text{Tb, Dy, Ho and Er}$ ) Single-Crystalline Hydrides. IEEE Transactions on Magnetics, 2011, 47, 3617-3620.	2.1	12
61	(Lu <sub>0.8</sub> Ce <sub>0.2</sub> ) <sub>2</sub> Fe <sub>17</sub> single crystal under hydrostatic and $\sim$ negative <sup>TM</sup> pressure induced by hydrogenation. Journal of Physics Condensed Matter, 2011, 23, 216004.	1.8	4
62	Magnetocaloric and magnetoelastic effects in (Tb <sub>0.45</sub> Dy <sub>0.55</sub> ) <sub>1-x</sub> Er <sub>x</sub> Co <sub>2</sub> multicomponent compounds. Journal of Physics: Conference Series, 2010, 200, 092012.	0.4	11
63	High-Field Magnetization Measurements for a Single Crystal of Er <sub>2</sub> Fe <sub>17</sub> H <sub>3</sub> Hydride. Journal of Low Temperature Physics, 2010, 159, 24-27.	1.4	2
64	Hysteresis Magnetic Properties of Nd-Ho-Fe-Co-B Alloys after Intense Plastic Deformation. Materials Science Forum, 2010, 667-669, 1065-1070.	0.3	2
65	Crystal structure and magnetic properties of Lu <sub>2</sub> Co <sub>17</sub> <sup>x</sup> Si <sub>6</sub> single crystals. Intermetallics, 2010, 18, 641-648.	3.9	11
66	Magnetization and specific heat study of metamagnetism in Lu <sub>2</sub> Fe <sub>17</sub> -based intermetallic compounds. Intermetallics, 2010, 18, 1205-1210.	3.9	22
67	Magnetostriction of a U <sub>2</sub> Fe <sub>13</sub> Si <sub>4</sub> single crystal. Journal of Alloys and Compounds, 2010, 491, 4-7.	5.5	0
68	Magnetism of Lu <sub>2</sub> Fe <sub>17</sub> : The effects of Ru substitution, hydrogenation and external pressure. Journal of Alloys and Compounds, 2010, 492, 1-7.	5.5	26
69	Sublattice contributions to the magnetism of UFe <sub>5</sub> Al <sub>7</sub> and UFe <sub>6</sub> Al <sub>6</sub> . Journal of Alloys and Compounds, 2010, 492, 52-55.	5.5	4
70	Antiferromagnetic order in (Lu <sub>0.8</sub> Ce <sub>0.2</sub> ) <sub>2</sub> Fe <sub>17</sub> and Lu <sub>2</sub> Fe <sub>16.5</sub> Ru <sub>0.5</sub> : High pressure study. Journal of Applied Physics, 2009, 105, 07A747.	2.5	16
71	Magnetostriction and magnetization of the intermetallic compounds RFe <sub>2</sub> <sup>x</sup> Co <sub>x</sub> (R = Tb, Dy, Er) with compensated magnetic anisotropy. Physics of the Solid State, 2009, 51, 92-98.	0.6	10
72	Magnetoelasticity of (Lu <sub>0.8</sub> Ce <sub>0.2</sub> ) <sub>2</sub> Fe <sub>17</sub> intermetallic compound. Journal of Alloys and Compounds, 2009, 477, 62-67.	5.5	5

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73	Magnetic properties of Lu <sub>2</sub> Co <sub>17</sub> single crystals. Journal of Magnetism and Magnetic Materials, 2008, 320, e132-e135.	2.3	5
74	Magnetic properties of U <sub>2</sub> Co <sub>17</sub> single crystals. Journal of Alloys and Compounds, 2008, 450, 51-57.	5.5	7
75	The effect of hydrogen on the magnetocrystalline anisotropy of R <sub>2</sub> Fe <sub>17</sub> and R(Fe, Ti) <sub>12</sub> (R=Dy, Lu) compounds. Journal of Alloys and Compounds, 2008, 451, 477-480.	5.5	27
76	Magnetic properties of U <sub>2</sub> (Fe <sub>1-x</sub> Ni <sub>x</sub> ) <sub>13.6</sub> Si <sub>3.4</sub> single crystals. Journal of Alloys and Compounds, 2008, 461, 6-8.	5.5	6
77	Magnetic Properties of Zr-Doped Lu <sub>2</sub> Fe <sub>17</sub> Single Crystal and Its Hydride. IEEE Transactions on Magnetics, 2008, 44, 4210-4213.	2.1	8
78	Pressure study of magnetism in (Lu <sub>0.8</sub> Ce <sub>0.2</sub> ) <sub>2</sub> Fe <sub>17</sub> and Lu <sub>2</sub> Fe <sub>16.5</sub> Ru <sub>0.5</sub> single crystals. Journal of Physics: Conference Series, 2008, 121, 032010.	0.4	6
79	Magnetic Anisotropy of Lu <sub>2</sub> Co <sub>17</sub> Single Crystals. Acta Physica Polonica A, 2008, 113, 235-238.	0.5	0
80	Magnetic Properties Of Gd <sub>2</sub> Fe <sub>14</sub> B <sub>x</sub> Hydrides. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 415-422.	0.2	0
81	INFLUENCE OF HYDROGEN ON MAGNETIC AND MAGNETOELASTIC PROPERTIES OF Lu <sub>2</sub> Fe <sub>17</sub> SINGLE CRYSTAL. , 2007, , 653-660.		0
82	Crystal structure and magnetic properties of U <sub>2</sub> Co <sub>17</sub> single crystals. Journal of Magnetism and Magnetic Materials, 2007, 310, e598-e600.	2.3	1
83	Magnetic anisotropy and spin reorientation in U <sub>2</sub> Co <sub>15</sub> Si <sub>2</sub> . Journal of Magnetism and Magnetic Materials, 2007, 316, e515-e518.	2.3	0
84	MAGNETIC PROPERTIES OF SOME Er <sub>2</sub> Fe <sub>14</sub> B <sub>x</sub> HYDRIDES. , 2007, , 605-612.		2
85	CHANGE OF CURIE TEMPERATURE AND EFFECTIVE EXCHANGE FIELDS IN FERRIMAGNETIC R <sub>2</sub> Fe <sub>14</sub> B COMPOUNDS UPON HYDROGENATION. , 2007, , 599-604.		0
86	Effect of hydrogenation on the magnetic and magnetoelastic properties of R <sub>2</sub> Fe <sub>14</sub> B compounds (R =) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	4
87	Magnetostriction and thermal expansion of Er <sub>2</sub> Fe <sub>14</sub> B and its hydride. Journal of Magnetism and Magnetic Materials, 2006, 300, e418-e421.	2.3	5
88	Magnetization of Y <sub>2</sub> (Fe <sub>1-x</sub> Co <sub>x</sub> )B <sub>14</sub> intermetallic compound and their hydrides. Journal of Magnetism and Magnetic Materials, 2006, 300, e448-e451.	2.3	9
89	Effect of hydrogenation on magnetic ordering temperature in Lu <sub>2</sub> (Fe,Si) <sub>17</sub> compounds. Journal of Magnetism and Magnetic Materials, 2006, 300, e497-e499.	2.3	6
90	Magnetization of a Dy <sub>2</sub> Fe <sub>14</sub> Si <sub>3</sub> single crystal in high magnetic fields. Journal of Physics: Conference Series, 2006, 51, 147-150.	0.4	2

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91	Interplay between hydrogenation and pressure effects in magnetism of Lu <sub>2</sub> Fe <sub>17</sub> single crystal. High Pressure Research, 2006, 26, 485-487.	1.2	4
92	Effect of hydrogenation on magnetic phase transitions in the Er <sub>2</sub> Fe <sub>14</sub> B single crystal. Doklady Physics, 2005, 50, 346-348.	0.7	2
93	Effect of hydrogen on magnetic properties of Lu <sub>2</sub> Fe <sub>14</sub> B single crystal. Journal of Alloys and Compounds, 2005, 404-406, 212-215.	5.5	21
94	The magnetocrystalline anisotropy in Y(Fe,Co) <sub>11</sub> TiH single crystals. Journal of Alloys and Compounds, 2005, 404-406, 208-211.	5.5	7
95	The effect of hydrogen on the thermal expansion and magnetostriction of RFe <sub>11</sub> /Ti intermetallic compounds. IEEE Transactions on Magnetics, 2003, 39, 2881-2883.	2.1	4
96	The effect of hydrogen on the magnetostriction of rare-earth compounds Tb <sub>x</sub> Dy <sub>1-x</sub> Fe <sub>2</sub> . Low Temperature Physics, 2001, 27, 297-299.	0.6	2
97	Specific features in thermal expansion of RFe <sub>11</sub> Ti single crystals. Physics of the Solid State, 2001, 43, 1273-1277.	0.6	3
98	Hydrogen Absorption and Magnetic Properties of Ho <sub>2</sub> Fe <sub>14</sub> BH <sub>x</sub> Hydrides. Solid State Phenomena, 0, 190, 163-166.	0.3	2
99	Influence of Ru on the Magnetic Properties of Y <sub>2</sub> T <sub>17</sub> (T =) Tj ETQq1 1 0.7843 14 rgBT /	0.3	1