Evgenia Tereshina-Chitrova

List of Publications by Year
in descending order

99 papers	926 citations	430874 18 h-index	610901 24 g-index
100 all docs	100 docs citations	100 times ranked	446 citing authors

#	Article	IF	Citations
1	Persistent values of magnetocaloric effect in the multicomponent Laves phase compounds with varied composition. Acta Materialia, 2018, 154, 303-310.	7.9	41
2	Magnetic ordering temperature of nanocrystalline Gd: enhancement of magnetic interactions via hydrogenation-induced â€œnegativeâ€• pressure. Scientific Reports, 2016, 6, 22553.	3.3	37
3	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
4	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
5	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
6	Magnetocaloric properties of distilled gadolinium: Effects of structural inhomogeneity and hydrogen impurity. Applied Physics Letters, 2014, 104, .	3.3	30
7	Strong room-temperature easy-axis anisotropy in Tb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>17</mml:mn></mml:msub></mml:math>H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	29
8	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
9	The effect of hydrogen on the magnetocrystalline anisotropy of R2Fe17 and R(Fe, Ti)12 (R=Dy, Lu) compounds. Journal of Alloys and Compounds, 2008, 451, 477-480.	5.5	27
10	High-field magnetic behavior and forced-ferromagnetic state in an<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>ErF</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>11</mml:mn></mml:msub><mml:mi>TiH</mml:mi></mml:mrow></mml:math>single crystal. Physical Review B, 2015, 92, .	3.2	27
11	Magnetism of Lu2Fe17: The effects of Ru substitution, hydrogenation and external pressure. Journal of Alloys and Compounds, 2010, 492, 1-7.	5.5	26
12	Variation of the intersublattice exchange coupling due to hydrogen absorption in Er2Fe14B: A high-field magnetization study. Journal of Applied Physics, 2012, 111, 093923.	2.5	24
13	Magnetization and specific heat study of metamagnetism in Lu2Fe17-based intermetallic compounds. Intermetallics, 2010, 18, 1205-1210.	3.9	22
14	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
15	Effect of hydrogen on magnetic properties of Lu2Fe14B single crystal. Journal of Alloys and Compounds, 2005, 404-406, 212-215.	5.5	21
16	Probing the exchange coupling in the complex modified Ho-Fe-B compounds by high-field magnetization measurements. AIP Advances, 2018, 8, .	1.3	21
17	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
18	Tailoring the ferrimagnetic-to-ferromagnetic transition field by interstitial and substitutional atoms in the Râ€“Fe compounds. Intermetallics, 2019, 112, 106546.	3.9	18

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19	Synthesis, structure and properties of heavily Mn-doped perovskite-type SrTiO3 nanoparticles. Materials Chemistry and Physics, 2014, 143, 570-577.	4.0	17
20	Features of magnetization behavior in the rare-earth intermetallic compound (Nd0.5Ho0.5)2Fe14B. Intermetallics, 2018, 98, 139-142.	3.9	17
21	Antiferromagnetic order in (Lu0.8Ce0.2)2Fe17 and Lu2Fe16.5Ru0.5: High pressure study. Journal of Applied Physics, 2009, 105, 07A747.	2.5	16
22	Magnetocaloric effect in (Tb,Dy,R)(Co,Fe)₂(R= Ho, Er) multicomponent compounds. Journal of Physics: Conference Series, 2011, 266, 012077.	0.4	14
23	Magnetostriction in (Tb_{0.45}Dy_{0.55})_{1â^'x}Er_xCo₂(x=0.4) Tj ET Q q 1 1 0.7	0.4	14
24	High-Field Magnetization Study of $R_{2}{m Fe}_{17}{m H}_{3}$ ($R={m Tb}$, Dy, Ho and Er) Single-Crystalline Hydrides. IEEE Transactions on Magnetics, 2011, 47, 3617-3620.	2.1	12
25	The phenomenon of magnetic compensation in the multi-component compounds (Tb,Y,Sm)Fe2 and their hydrides. Journal of Alloys and Compounds, 2020, 847, 155976.	5.5	12
26	Magnetocaloric and magnetoelastic effects in (Tb_{0.45}Dy_{0.55})_{1-x}Er_xCo₂multicomponent compounds. Journal of Physics: Conference Series, 2010, 200, 092012.	0.4	11
27	Crystal structure and magnetic properties of Lu2Co17â^'xSix single crystals. Intermetallics, 2010, 18, 641-648.	3.9	11
28	Magnetocaloric effect in single crystal Nd2Co7. Journal of Applied Physics, 2011, 109, .	2.5	11
29	Forced-ferromagnetic state in a Tm₂Fe₁₇H₅single crystal. Journal of Physics Condensed Matter, 2017, 29, 24LT01.	1.8	11
30	Structure and magnetic properties of (Sm,Ho)2Fe17Nx (xÂ=Â0; 2.4). Journal of Magnetism and Magnetic Materials, 2020, 502, 166549.	2.3	11
31	Magnetostriction and magnetization of the intermetallic compounds RFe2 â^' x Co x (R = Tb, Dy, Er) with compensated magnetic anisotropy. Physics of the Solid State, 2009, 51, 92-98.	0.6	10
32	Exchange bias in UO2/Fe3O4 thin films above the NÃ©el temperature of UO2. Applied Physics Letters, 2014, 105, .	3.3	10
33	Magnetocaloric properties of hydrogenated Gd, Tb and Dy. Journal of Magnetism and Magnetic Materials, 2019, 470, 41-45.	2.3	10
34	Influence of interstitial and substitutional atoms on magnetocaloric effects in RNi compounds. Materials Chemistry and Physics, 2021, 264, 124455.	4.0	10
35	Magnetization of Y2(Fe1â^'xCox)B14 intermetallic compound and their hydrides. Journal of Magnetism and Magnetic Materials, 2006, 300, e448-e451.	2.3	9
36	Hydrogenation effect on the hysteresis properties of rapidly quenched Ndâ€“Hoâ€“Feâ€“Coâ€“B alloys. Journal of Alloys and Compounds, 2011, 509, S835-S838.	5.5	9

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37	Role of â€œDumbbellâ€•Pairs of Fe in Spin Alignments and Negative Thermal Expansion of Lu₂Fe₁₇-Based Intermetallic Compounds. Inorganic Chemistry, 2020, 59, 11228-11232.	4.0	9
38	Magnetic Properties of Zr-Doped Lu$_{2}$Fe$_{17}$ Single Crystal and Its Hydride. IEEE Transactions on Magnetics, 2008, 44, 4210-4213.	2.1	8
39	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
40	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
41	XPS, UPS, and BIS study of pure and alloyed Î²-UH3 films: Electronic structure, bonding, and magnetism. Journal of Electron Spectroscopy and Related Phenomena, 2020, 239, 146904.	1.7	8
42	High-field magnetization study of (Nd,Dy)2Fe14B: Intrinsic properties and promising compositions. Intermetallics, 2020, 124, 106840.	3.9	8
43	The magnetocrystalline anisotropy in Y(Fe,Co)11TiH single crystals. Journal of Alloys and Compounds, 2005, 404-406, 208-211.	5.5	7
44	Magnetic properties of U2Co17â^'xSix single crystals. Journal of Alloys and Compounds, 2008, 450, 51-57.	5.5	7
45	Effect of hydrogenation on magnetic ordering temperature in Lu2(Fe,Si)17 compounds. Journal of Magnetism and Magnetic Materials, 2006, 300, e497-e499.	2.3	6
46	Magnetic properties of U2(Fe1â^'xNix)13.6Si3.4 single crystals. Journal of Alloys and Compounds, 2008, 461, 6-8.	5.5	6
47	Pressure study of magnetism in (Lu_{0.8}Ce_{0.2})₂Fe₁₇and Lu₂Fe_{16.5}Ru_{0.5}single crystals. Journal of Physics: Conference Series, 2008, 121, 032010.	0.4	6
48	Influence of Ru on Magnetism of $R_{2}{hbox{Fe}}_{17}$ ($R={hbox{Y}}$, Lu, and Er). IEEE Transactions on Magnetics, 2011, 47, 3610-3613.	2.1	6
49	Experimental and theoretical study of magnetic ordering and local atomic polarization in Ru-substitutedLu2Fe17. Physical Review B, 2014, 89, .	3.2	6
50	High-Field Magnetization Study of $$R_{2}hbox {Fe}_{17}hbox {N}_{2}$$ R 2 Fe 17 N 2 ($$R = hbox) Tj ETQq0 0 0 rgBT /Overlock 10	1.4	6
51	Mixed H₂O/H₂ plasma-induced redox reactions of thin uranium oxide films under UHV conditions. Dalton Transactions, 2021, 50, 12583-12591.	3.3	6
52	Influence of substitutions and hydrogenation on the structural and magnetic properties of (Râ€™Râ€™â€™)2Fe17 (Râ€™, Râ€™â€™ = Sm, Er, Ho): Compositions with promising fundamental characteristics.	5.5	Journal of 6
	Alloys and Compounds, 2022, 897, 163228.		
53	Magnetostriction and thermal expansion of Er2Fe14B and its hydride. Journal of Magnetism and Magnetic Materials, 2006, 300, e418-e421.	2.3	5
54	Magnetic properties of Lu2Co17â^'xSix single crystals. Journal of Magnetism and Magnetic Materials, 2008, 320, e132-e135.	2.3	5

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55	Magnetoelasticity of (Lu0.8Ce0.2)2Fe17 intermetallic compound. Journal of Alloys and Compounds, 2009, 477, 62-67.	5.5	5
56	Manipulating Spin Alignments of (Y,Lu)1.7Fe17 Intermetallic Compounds via Unusual Thermal Pressure. Inorganic Chemistry, 2020, 59, 5247-5251.	4.0	5
57	The effect of hydrogen on the thermal expansion and magnetostriction of RFe/sub 11/Ti intermetallic compounds. IEEE Transactions on Magnetics, 2003, 39, 2881-2883.	2.1	4
58	Effect of hydrogenation on the magnetic and magnetoelastic properties of R 2Fe14B compounds (R =) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	4
59	Interplay between hydrogenation and pressure effects in magnetism of Lu2Fe17single crystal. High Pressure Research, 2006, 26, 485-487.	1.2	4
60	Sublattice contributions to the magnetism of UFe5Al7 and UFe6Al6. Journal of Alloys and Compounds, 2010, 492, 52-55.	5.5	4
61	High-field magnetization of a Dy2Fe14Si3 single crystal. Journal of Alloys and Compounds, 2011, 509, 5042-5046.	5.5	4
62	(Lu_{0.8}Ce_{0.2})₂Fe₁₇single crystal under hydrostatic and â€˜negativeâ€™ pressure induced by hydrogenation. Journal of Physics Condensed Matter, 2011, 23, 216004.	1.8	4
63	Changes in magnetic state of Y2(Fe,Mn)17-H systems: Regularities and potentialities. Journal of Alloys and Compounds, 2014, 587, 739-746.	5.5	4
64	Crystal structure and magnetic properties of UO2/permalloy thin films. Thin Solid Films, 2015, 591, 271-275.	1.8	4
65	The effect of adding aluminum and iron to Tbâ€“Dyâ€“Hoâ€“Co multicomponent alloys on their structure and magnetic and magnetocaloric properties. Technical Physics, 2017, 62, 577-582.	0.7	4
66	Specific features in thermal expansion of RFe11Ti single crystals. Physics of the Solid State, 2001, 43, 1273-1277.	0.6	3
67	High-field magnetization study of a HoFe6Al6 single crystal. Journal of Alloys and Compounds, 2015, 648, 488-493.	5.5	3
68	Influence of Ru on magnetic properties of Y2T17 (T = Fe, Co) and Y2Fe16Si single crystals. Journal of Alloys and Compounds, 2015, 621, 415-422.	5.5	3
69	Magnetic phase diagrams of the Tm2Fe17â€“H system. Doklady Physical Chemistry, 2016, 469, 102-105.	0.9	3
70	Enhanced magnetocaloric effect in distilled terbium and emergence of novel properties after severe plastic deformation. Scripta Materialia, 2020, 187, 340-344.	5.2	3
71	Low-Temperature Magnetothermodynamics Performance of Tb1-xErxNi2 Laves-Phases Compounds for Designing Composite Refrigerants. Crystals, 2022, 12, 931.	2.2	3
72	The effect of hydrogen on the magnetostriction of rare-earth compounds TbxDy1â^'xFe2. Low Temperature Physics, 2001, 27, 297-299.	0.6	2

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73	Effect of hydrogenation on magnetic phase transitions in the Er2Fe14B single crystal. Doklady Physics, 2005, 50, 346-348.	0.7	2
74	Magnetization of a Dy2Fe14Si3single crystal in high magnetic fields. Journal of Physics: Conference Series, 2006, 51, 147-150.	0.4	2
75	High-Field Magnetization Measurements for a Single Crystal of Er2Fe17H3 Hydride. Journal of Low Temperature Physics, 2010, 159, 24-27.	1.4	2
76	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
77	Hydrogen Absorption and Magnetic Properties of HO₂Fe₁₄BH_x Hydrides. Solid State Phenomena, 0, 190, 163-166.	0.3	2
78	Magnetic anisotropy in intermetallic compounds containing both uranium and 3d-metal. Physics of Metals and Metallography, 2013, 114, 727-733.	1.0	2
79	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
80	Dielectric relaxation in epitaxial films of paraelectric-magnetic SrTiO3-SrMnO3 solid solution. Applied Physics Letters, 2018, 112, .	3.3	2
81	The tremendous influence of hydrogenation on magnetism of NdMnGe. Intermetallics, 2019, 115, 106619.	3.9	2
82	Effect of Hydrogenation on Magnetostriction and Magnetocaloric Effect in Gadolinium Single Crystal. Physics of the Solid State, 2019, 61, 90-93.	0.6	2
83	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
84	Magnetocaloric and MÃ¶ssbauer 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
85	MAGNETIC PROPERTIES OF SOME Er2Fe14BHX HYDRIDES. , 2007, , 605-612.		2
86	Crystal structure and magnetic properties of U2Co17â^'xSix single crystals. Journal of Magnetism and Magnetic Materials, 2007, 310, e598-e600.	2.3	1
87	Influence of Ru on the Magnetic Properties of Y₂T₁₇ (T =) Tj ETQq1 1 0.784314 rgBT /	0.3	1
88	Basic mechanisms of magnetic-anisotropy change under hydrogenation of the Tb2Fe17 compound. Doklady Physics, 2013, 58, 528-532.	0.7	1
89	Magnetic properties of HoFe6Al6H hydride: A single-crystal study. Journal of Science: Advanced Materials and Devices, 2016, 1, 152-157.	3.1	1
90	Magnetic properties of a Ho2Fe14Si3 single crystal. Journal of Alloys and Compounds, 2017, 694, 761-766.	5.5	1

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91	High-Field Magnetization Study of Laves Phase (Gd,Y,Sm)Fe₂-H. IEEE Magnetics Letters, 2022, 13, 1-5.	1.1	1
92	INFLUENCE OF HYDROGEN ON MAGNETIC AND MAGNETOELASTIC PROPERTIES OF Lu2Fe17 SINGLE CRYSTAL. , 2007, , 653-660.		0
93	Magnetic anisotropy and spin reorientation in U2Co15Si2. Journal of Magnetism and Magnetic Materials, 2007, 316, e515-e518.	2.3	0
94	Magnetostriction of a U2Fe13Si4 single crystal. Journal of Alloys and Compounds, 2010, 491, 4-7.	5.5	0
95	CaF<inf>2</inf>-based UO<inf>2</inf>/Fe<inf>3</inf>O<inf>4</inf> thin films: Crystal structure and magnetic exchange bias effect. , 2015, , .		0
96	Magnetic Anisotropy of Lu2Co17-xSixSingle Crystals. Acta Physica Polonica A, 2008, 113, 235-238.	0.5	0
97	Nanopowders of R2Fe14B-type compounds in high magnetic fields: The effects of substitutional and interstitial atoms on inter-sublattice exchange interaction. , 2020, , .		0
98	CHANGE OF CURIE TEMPERATURE AND EFFECTIVE EXCHANGE FIELDS IN FERRIMAGNETIC R2Fe14B COMPOUNDS UPON HYDROGENATION. , 2007, , 599-604.		0
99	Magnetic Properties Of Gd2Fe14BhX Hydrides. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 415-422.	0.2	0