Alexey Karpenkov

List of Publications by Year
in descending order

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44	334	933447	888059
papers	citations	10	17
		h-index	g-index

45	45	45	348
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Production and properties of metal-bonded La(Fe,Mn,Si)13H composite material. Acta Materialia, 2017, 127, 389-399.	7.9	70
2	Persistent values of magnetocaloric effect in the multicomponent Laves phase compounds with varied composition. Acta Materialia, 2018, 154, 303-310.	7.9	41
3	The maximal cooling power of magnetic and thermoelectric refrigerators with La(FeCoSi)13 alloys. Journal of Applied Physics, 2013, 113, .	2.5	29
4	Pressure Dependence of Magnetic Properties in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>La</mml:mi><mml:mo>(</mml:mo><mml:mi>Fe</mml:mi><mml:mo>,</mml:mo></mml:mo>: Multistimulus Responsiveness of Caloric Effects by Modeling and Experiment. Physical Review Applied, 2020, 13, .	4.6	22
5	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
6	Synthesis of FeNi tetrataenite phase by means of chemical precipitation. Journal of Magnetism and Magnetic Materials, 2019, 470, 33-37.	2.3	16
7	Heat Exchangers From Metal-Bonded La(Fe,Mn,Si)₁₃H_xPowder. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	15
8	Infrared heating mediated synthesis and characterization of FeCo/C nanocomposites. Journal of Magnetism and Magnetic Materials, 2017, 429, 94-101.	2.3	12
9	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
10	Accelerated crystallization and phase formation in Fe40Ni40B20 by electric current assisted annealing technique. Journal of Alloys and Compounds, 2020, 836, 155338.	5.5	12
11	Glucose Oxidase Immobilized on Magnetic Zirconia: Controlling Catalytic Performance and Stability. ACS Omega, 2020, 5, 12329-12338.	3.5	10
12	Influence of Rapid Quenching on Magnetocaloric Effect of Y₂(Fe,Mn)₁₇ Intermetallic Compounds. Solid State Phenomena, 0, 233-234, 196-199.	0.3	9
13	Insights into Sustainable Glucose Oxidation Using Magnetically Recoverable Biocatalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 9845-9853.	6.7	8
14	Adiabatic temperature change of micro- and nanocrystalline Y2Fe17 heat-exchangers for magnetic cooling. Journal of Alloys and Compounds, 2016, 668, 40-45.	5.5	7
15	The change of crystallite sizes and magnetocaloric effect in rapidly quenched dysprosium. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1149-1154.	0.8	6
16	Hydrogen-induced extremely large change in Curie temperatures in layered GdTSiH (Tâ€‰=â€‰Mn, Fe, Co). Journal of Applied Physics, 2020, 128, 143903.	2.5	6
17	The influence of ferrimagnetic structure on magnetocaloric effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Dy</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:mrow>compound. Journal of Alloys and Compounds, 2021, 854, 156214.	5.5	6
18	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

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19	Composition and structure of the incombustible residue from thermal decomposition of the ionic liquid N-decylpyridinium tetrachloroferrate(III). Russian Journal of General Chemistry, 2015, 85, 882-888.	0.8	3
20	Surface Morphology and Magnetic Properties of (Sm,Gd)Fe₂ With Laves Phase Structure. IEEE Magnetics Letters, 2019, 10, 1-5.	1.1	3
21	Magnetic Properties and Surface Morphology of the Intermetallic Compound Dy2Fe10Al7 and Its Hydride. Physics of the Solid State, 2020, 62, 808-814.	0.6	3
22	Structural and high-field magnetic properties of Laves phase RFe2-H hydrides. Journal of Applied Physics, 2021, 130, 210901.	2.5	3
23	Magnetoelectric effect in thick-film heterostructures of PZT and Ni-Zn ferrites. Inorganic Materials, 2011, 47, 1275-1279.	0.8	2
24	Stress-induced magnetic domain structure in DyFe₁₁Ti compound. EPJ Web of Conferences, 2018, 185, 04027.	0.3	2
25	A comparative analysis of magnetic properties and microstructure of high coercivity Sm(CoCuFe)₅ quasi-binary alloys in the framework of fractal geometry. Journal of Physics: Conference Series, 2020, 1658, 012050.	0.4	2
26	Magnetic Domain Structure of Y₂(Fe$_{{x}}$Co_{1â€“}$_{{x}}$)₁₇ Compounds. IEEE Magnetics Letters, 2020, 11, 1-5.	1.1	2
27	Perspective on synthesis, structure, and magnetic properties of Râ€“Feâ€“H hydrides. Journal of Applied Physics, 2021, 130, .	2.5	2
28	Magnetocaloric effect in micro- and nanocrystalline TbFe_{11-X}Ti intermetallic compounds. Journal of Physics: Conference Series, 2009, 144, 012087.	0.4	1
29	The magnetostriction of the intermetallic compound ErCo2near the magnetic phase transition paramagnetism-ferrimagnetism. Journal of Physics: Conference Series, 2011, 303, 012032.	0.4	1
30	Magnetocaloric effect and magnetic phase transitions in nanocrystalline rare-earth metals: Tb, Dy, and Gd. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 1268-1271.	0.6	1
31	Topography and Domain Structure of Lead Zirconate-Titanate Thin Films. Ferroelectrics, 2015, 477, 15-20.	0.6	1
32	Mirror Effect in Measuring Systems with Variable Geometry of the Electromagnet Interpole Space. Metal Science and Heat Treatment, 2017, 58, 628-634.	0.6	1
33	Methodology for Studying Reversal Magnetization Processes in Magnets of the Sm â€“ Co â€“ Fe â€“ Cu â€“ Zr System at High Temperatures. Metal Science and Heat Treatment, 2018, 60, 494-497.	0.6	1
34	The Influence of Milling Modes on the Structure and Magnetic Properties of (Sm, Ho)2Fe17Nx (x = 0,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	1
35	High-Field Magnetization Study of Laves Phase (Gd,Y,Sm)Fe₂-H. IEEE Magnetics Letters, 2022, 13, 1-5.	1.1	1
36	Microstructure Transformation under Itinerant-Electron Metamagnetic Transition in LaFe_{11.}₆Si_{1.}₄. Materials Science Forum, 0, 845, 42-45.	0.3	0

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37	Electrotransport Properties of the La(Fe₁₋_{Ñ...}Co_{Ñ...})Si_y0.3 Compounds. Materials Science Forum, 0, 845, 50-55.		
38	Direct Measurements of Magnetocaloric Effect in a Single Crystalline Ni_{2.13}Mn_{0.81}Ga_{1.06} Heusler Alloy. Materials Science Forum, 2016, 872, 38-42.	0.3	0
39	Magnetic Image or Apparent Change in the Measured Quantity in Magnetic Circuits with Variable Geometry of the Interpole Space. Metal Science and Heat Treatment, 2018, 60, 504-510.	0.6	0
40	Magnetic Domain Structure of Cobalt and Iron Borides. Metal Science and Heat Treatment, 2018, 60, 534-538.	0.6	0
41	Magnetically separable biocatalyst of D-glucose oxidation. AIP Conference Proceedings, 2018, , .	0.4	0
42	Features of Surface Morphology and Magnetic Properties of Sm_{0.5}R_{0.5}Fe₂ (R = Tb, Gd) Compounds. Solid State Phenomena, 0, 312, 261-269.	0.3	0
43	Terbium Substitution Effects in CeFe₂: Structure and Magnetic Properties. IEEE Magnetics Letters, 2022, 13, 1-5.	1.1	0
44	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