

# Alexey Karpenkov

## List of Publications by Year in descending order

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Terbium Substitution Effects in CeFe <sub>2</sub> : Structure and Magnetic Properties. IEEE Magnetics Letters, 2022, 13, 1-5.	1.1	0
2	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
3	The influence of ferrimagnetic structure on magnetocaloric effect in $\text{Dy}_2\text{Mn}_6$ compound. Journal of Alloys and Compounds. 2021, 854, 156214.	5.5	6
4	Structural and high-field magnetic properties of Laves phase RFe <sub>2</sub> -H hydrides. Journal of Applied Physics, 2021, 130, 210901.	2.5	3
5	Perspective on synthesis, structure, and magnetic properties of RFe <sub>2</sub> -H hydrides. Journal of Applied Physics, 2021, 130, .	2.5	2
6	Hydrogen-induced extremely large change in Curie temperatures in layered GdT <sub>2</sub> SiH (T = Mn, Fe, Co). Journal of Applied Physics, 2020, 128, 143903.	2.5	6
7	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
8	The Influence of Milling Modes on the Structure and Magnetic Properties of (Sm, Ho) <sub>2</sub> Fe <sub>17</sub> N <sub>x</sub> (x = 0, 1). Journal of Applied Physics, 2020, 123, 100000.	0.7	1
9	A comparative analysis of magnetic properties and microstructure of high coercivity Sm(CoCuFe) <sub>5</sub> quasi-binary alloys in the framework of fractal geometry. Journal of Physics: Conference Series, 2020, 1658, 012050.	0.4	2
10	Glucose Oxidase Immobilized on Magnetic Zirconia: Controlling Catalytic Performance and Stability. ACS Omega, 2020, 5, 12329-12338.	3.5	10
11	Accelerated crystallization and phase formation in Fe <sub>40</sub> Ni <sub>40</sub> B <sub>20</sub> by electric current assisted annealing technique. Journal of Alloys and Compounds, 2020, 836, 155338.	5.5	12
12	Pressure Dependence of Magnetic Properties in $\text{La}_2\text{Fe}_{14}\text{Si}_{11}$ : Multistimulus Responsiveness of Caloric Effects by Modeling and Experiment. Physical Review Applied, 2020, 13, .	3.8	22
13	Magnetic Domain Structure of Y <sub>2</sub> (Fe <sub>x</sub> ) <sub>2</sub> Co <sub>17-x</sub> Compounds. IEEE Magnetics Letters, 2020, 11, 1-5.	1.1	2
14	Magnetic Properties and Surface Morphology of the Intermetallic Compound Dy <sub>2</sub> Fe <sub>10</sub> Al <sub>7</sub> and Its Hydride. Physics of the Solid State, 2020, 62, 808-814.	0.6	3
15	Surface Morphology and Magnetic Properties of (Sm,Gd)Fe <sub>2</sub> With Laves Phase Structure. IEEE Magnetics Letters, 2019, 10, 1-5.	1.1	3
16	Synthesis of FeNi tetrataenite phase by means of chemical precipitation. Journal of Magnetism and Magnetic Materials, 2019, 470, 33-37.	2.3	16
17	Methodology for Studying Reversal Magnetization Processes in Magnets of the Sm-Co-Fe-Cu-Zr System at High Temperatures. Metal Science and Heat Treatment, 2018, 60, 494-497.	0.6	1
18	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

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19	Magnetic Domain Structure of Cobalt and Iron Borides. <i>Metal Science and Heat Treatment</i> , 2018, 60, 534-538.	0.6	0
20	Magnetically separable biocatalyst of D-glucose oxidation. <i>AIP Conference Proceedings</i> , 2018, .	0.4	0
21	Stress-induced magnetic domain structure in DyFe <sub>11</sub> Ti compound. <i>EPJ Web of Conferences</i> , 2018, 185, 04027.	0.3	2
22	Insights into Sustainable Glucose Oxidation Using Magnetically Recoverable Biocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9845-9853.	6.7	8
23	Persistent values of magnetocaloric effect in the multicomponent Laves phase compounds with varied composition. <i>Acta Materialia</i> , 2018, 154, 303-310.	7.9	41
24	Infrared heating mediated synthesis and characterization of FeCo/C nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 429, 94-101.	2.3	12
25	Production and properties of metal-bonded La(Fe,Mn,Si) <sub>13</sub> H composite material. <i>Acta Materialia</i> , 2017, 127, 389-399.	7.9	70
26	Heat Exchangers From Metal-Bonded La(Fe,Mn,Si) <sub>13</sub> H Powder. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-7.	2.1	15
27	Mirror Effect in Measuring Systems with Variable Geometry of the Electromagnet Interpole Space. <i>Metal Science and Heat Treatment</i> , 2017, 58, 628-634.	0.6	1
28	Magnetostructural phase transitions and magnetocaloric effect in Tb-Dy-Ho-Co-Al alloys with a Laves phase structure. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	19
29	Direct Measurements of Magnetocaloric Effect in a Single Crystalline Ni <sub>2.13</sub> Mn <sub>0.81</sub> Ga <sub>1.06</sub> Heusler Alloy. <i>Materials Science Forum</i> , 2016, 872, 38-42.	0.3	0
30	Adiabatic temperature change of micro- and nanocrystalline Y <sub>2</sub> Fe <sub>17</sub> heat-exchangers for magnetic cooling. <i>Journal of Alloys and Compounds</i> , 2016, 668, 40-45.	5.5	7
31	Composition and structure of the incombustible residue from thermal decomposition of the ionic liquid N-decylpyridinium tetrachloroferrate(III). <i>Russian Journal of General Chemistry</i> , 2015, 85, 882-888.	0.8	3
32	Topography and Domain Structure of Lead Zirconate-Titanate Thin Films. <i>Ferroelectrics</i> , 2015, 477, 15-20.	0.6	1
33	Changes in magnetic state of Y <sub>2</sub> (Fe,Mn) <sub>17</sub> -H systems: Regularities and potentialities. <i>Journal of Alloys and Compounds</i> , 2014, 587, 739-746.	5.5	4
34	The change of crystallite sizes and magnetocaloric effect in rapidly quenched dysprosium. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 1149-1154.	0.8	6
35	Magnetocaloric effect and magnetic phase transitions in nanocrystalline rare-earth metals: Tb, Dy, and Gd. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2013, 77, 1268-1271.	0.6	1
36	The maximal cooling power of magnetic and thermoelectric refrigerators with La(FeCoSi) <sub>13</sub> alloys. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	29

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37	The magnetostriction of the intermetallic compound ErCo <sub>2</sub> near the magnetic phase transition paramagnetism-ferrimagnetism. Journal of Physics: Conference Series, 2011, 303, 012032.	0.4	1
38	Magnetoelectric effect in thick-film heterostructures of PZT and Ni-Zn ferrites. Inorganic Materials, 2011, 47, 1275-1279.	0.8	2
39	Magnetocaloric effect in micro- and nanocrystalline TbFe <sub>11-X</sub> Ti intermetallic compounds. Journal of Physics: Conference Series, 2009, 144, 012087.	0.4	1
40	Influence of Rapid Quenching on Magnetocaloric Effect of Y <sub>2</sub> (Fe,Mn) <sub>17</sub> Intermetallic Compounds. Solid State Phenomena, 0, 233-234, 196-199.	0.3	9
41	Microstructure Transformation under Itinerant-Electron Metamagnetic Transition in LaFe <sub>11</sub> Si <sub>6</sub> Si <sub>1</sub> Si <sub>4</sub> . Materials Science Forum, 0, 845, 42-45.	0.3	0
42	Electrotransport Properties of the La(Fe <sub>1-x</sub> Si <sub>x</sub> Co <sub>1-x</sub> Si <sub>y</sub> ) <sub>0.3</sub> Compounds. Materials Science Forum, 0, 845, 50-55.		0
43	Features of Surface Morphology and Magnetic Properties of Sm <sub>0.5</sub> R <sub>0.5</sub> Fe <sub>2</sub> (R = Tb, Gd) Compounds. Solid State Phenomena, 0, 312, 261-269.	0.3	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