

Akhmed Aliev

List of Publications by Year in descending order

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104
papers

1,227
citations

394421

19
h-index

454955

30
g-index

104
all docs

104
docs citations

104
times ranked

853
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetocaloric effect in $\text{La}_{1-x}\text{Ag}_y\text{MnO}_3$ ($y \leq 1/2$): direct and indirect measurements. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 4413-4417.	2.8	79
2	Magnetic properties and magnetocaloric effect in Heusler-type glass-coated NiMnGa microwires. <i>Journal of Alloys and Compounds</i> , 2013, 575, 73-79.	5.5	76
3	Magnetocaloric effect in ribbon samples of Heusler alloys $\text{Ni}_{1-x}\text{Mn}_x$ (M=In,Sn). <i>Applied Physics Letters</i> , 2010, 97, .	3.3	68
4	Magnetocaloric effect in some magnetic materials in alternating magnetic fields up to 22ÅHz. <i>Journal of Alloys and Compounds</i> , 2016, 676, 601-605.	5.5	50
5	Reversible magnetocaloric effect in materials with first order phase transitions in cyclic magnetic fields: $\text{Fe}_{48}\text{Rh}_{52}$ and $\text{Sm}_{0.6}\text{Sr}_{0.4}\text{MnO}_3$. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	46
6	Structure and magnetocaloric properties of $\text{La}_{1-x}\text{K}_x\text{MnO}_3$ manganites. <i>Physica B: Condensed Matter</i> , 2011, 406, 885-889.	2.7	42
7	Magnetocaloric properties of manganites in alternating magnetic fields. <i>JETP Letters</i> , 2010, 90, 663-666.	1.4	37
8	Phase separation and direct magnetocaloric effect in $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ manganite. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	33
9	Magnetocaloric properties of $\text{La}_{0.7}\text{Ca}_{0.3}\text{Mn}_{16}\text{O}_3$ and $\text{La}_{0.7}\text{Ca}_{0.3}\text{Mn}_{18}\text{O}_3$ manganites and their sandwich. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	32
10	Magnetic Properties and MCE in Heusler-Type Glass-Coated Microwires. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 1415-1419.	1.8	31
11	Kinetic effects in manganites $\text{La}_{1-x}\text{Ag}_y\text{MnO}_3$ ($y \leq x$). <i>Journal of Experimental and Theoretical Physics</i> , 2007, 105, 774-781.	0.9	29
12	Inverse-direct magnetocaloric effect crossover in $\text{Ni}_{47}\text{Mn}_{40}\text{Sn}_{12.5}\text{Cu}_{0.5}$ Heusler alloy in cyclic magnetic fields. <i>Applied Physics Letters</i> , 2018, 113, 172406.	3.3	26
13	Giant magnetocaloric effect in $\text{MnAs}_{1-x}\text{Px}$ in a cyclic magnetic field: Lattice and magnetic contributions and degradation of the effect. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	26
14	Multiple magneto-functional properties of $\text{Ni}_{46}\text{Mn}_{41}\text{In}_{13}$ shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2013, 578, 157-161.	5.5	22
15	Magnetocaloric effect, magnetostructural and magnetic phase transformations in $\text{Ni}_{50.3}\text{Mn}_{36.5}\text{Sn}_{13.2}$ Heusler alloy ribbons. <i>Journal of Alloys and Compounds</i> , 2015, 629, 332-342.	5.5	21
16	Magnetocaloric effect in $\text{La}_{0.7-x}\text{Pr}_x\text{Sr}_{0.3}\text{MnO}_3$ manganites: Direct and indirect measurements. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 474, 477-481.	2.3	21
17	Critical behavior of the specific heat of manganites $\text{La}_{1-x}\text{Ag}_x\text{MnO}_3$ ($x=0.1,0.15,0.2$) near the Curie point. <i>Low Temperature Physics</i> , 2009, 35, 214-218.	0.6	20
18	Magnetocaloric effect in $\text{Ni}_{\{2.19\}}\text{Mn}_{\{0.81\}}\text{Ga}$ Heusler alloys. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2006, 23, 65-69.	0.6	19

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19	Thermophysical properties of the manganites (Nd,Sm,Eu) _{0.55} Sr _{0.45} MnO ₃ . Low Temperature Physics, 2010, 36, 171-175.	0.6	19
20	Magnetocaloric properties of La _{1-x} KxMnO ₃ manganites. Journal of Experimental and Theoretical Physics, 2011, 112, 460-468.	0.9	19
21	Magnetic and lattice contributions to the magnetocaloric effect in Sm _{1-x} SrxMnO ₃ manganites. Applied Physics Letters, 2018, 112, .	3.3	19
22	Magnetocaloric Effect in Alloy Fe ₄₉ Rh ₅₁ in Pulsed Magnetic Fields up to 50 T. Physics of the Solid State, 2020, 62, 160-163.	0.6	19
23	Magnetic, thermal, and electrical properties of an Ni _{45.37} Mn _{40.91} In _{13.72} Heusler alloy. Journal of Experimental and Theoretical Physics, 2016, 122, 874-882.	0.9	18
24	Magnetocaloric effect in La _{1-x} KxMnO ₃ (x=0.11, 0.13, 0.15) composite structures in magnetic fields up to 80 kOe. Journal of Alloys and Compounds, 2017, 710, 292-296.	5.5	18
25	Specific heat and magnetocaloric effect of Pr _{1-x} Ag _x MnO ₃ manganites. Journal of Materials Science, 2014, 49, 294-299.	3.7	17
26	Specific heat, thermal diffusion, thermal conductivity and magnetocaloric effect in Pr _{0.6} Sr _{0.4} Mn _{1-x} FexO ₃ manganites. Journal of Magnetism and Magnetic Materials, 2017, 443, 352-357.	2.3	17
27	Electrical and thermal properties of the manganite La _{0.8} Ag _{0.15} MnO ₃ . Low Temperature Physics, 2007, 33, 829-832.	0.6	15
28	Correlation of the magnetocaloric effect and magnetostriction near the first-order phase transition in Pr _{0.7} Sr _{0.2} Ca _{0.1} MnO ₃ manganite. Journal of Applied Physics, 2018, 124, .	2.5	15
29	Magneto-electric coupling in Fe ₄₈ Rh ₅₂ multiferroic composite. Journal of Magnetism and Magnetic Materials, 2019, 470, 77-80.	5.5	15
30	Magnetocaloric effect in silver-doped lanthanum manganites. Technical Physics Letters, 2006, 32, 471-473.	0.7	14
31	Dependence of the heat capacity of La _{1-x} Ag _x MnO ₃ manganites on the Ag content. JETP Letters, 2007, 86, 340-343.	1.4	14
32	Heat capacity and resistivity of Sm _{0.55} Sr _{0.45} MnO ₃ in magnetic fields of up to 26 kOe. JETP Letters, 2000, 72, 464-467.	1.4	12
33	Magnetocaloric properties in the Pr _{0.7} Sr _{0.3-x} CaxMnO ₃ : Direct and indirect estimations from thermal diffusivity data. Journal of Alloys and Compounds, 2019, 782, 729-734.	5.5	12
34	Effect of a magnetic field on the thermal and kinetic properties of the Sm _{0.55} Sr _{0.45} MnO ₃ manganite. Physics of the Solid State, 2003, 45, 130-137.	0.6	11
35	Enhanced Performance of \hat{T}_{ad} upon Frequent Alternating Magnetic Fields in FeRh Alloys by Introducing Second Phases. ACS Applied Materials & Interfaces, 2022, 14, 18293-18301.	8.0	11
36	Specific heat of Sm _{0.55} Sr _{0.45} MnO ₃ manganite in magnetic fields up to 15 T: An anomalous critical behavior of the ferromagnet in magnetic field and the observation of a tricritical point. JETP Letters, 2006, 84, 31-34.	1.4	10

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37	Critical behavior of La _{0.87} K _{0.13} MnO ₃ manganite. Journal of Alloys and Compounds, 2011, 509, 8295-8298.	5.5	10
38	Critical behavior of polycrystalline Pr _{0.7} Ca _{0.1} Sr _{0.2} MnO ₃ exhibiting the crossover of first and second order magnetic phase transitions. Journal of Materials Research and Technology, 2020, 9, 12747-12755.	5.8	10
39	Degradation of the Magnetocaloric Effect in Ni _{49.3} Mn _{40.4} In _{10.3} in a Cyclic Magnetic Field. Physics of the Solid State, 2020, 62, 837-840.	0.6	10
40	Critical behaviour of the specific heat of La _{0.9} Ag _{0.1} MnO ₃ manganite. Physica B: Condensed Matter, 2007, 390, 155-158.	2.7	9
41	Magnetocaloric effect in Pr _{1-x} Ag _x MnO ₃ manganites. JETP Letters, 2010, 91, 341-343.	1.4	9
42	Magnetic and thermophysical properties of Gd _x Mn _{1-x} S solid solutions. Journal of Physics Condensed Matter, 2013, 25, 025802.	1.8	9
43	Direct measurements of the magnetocaloric effect of Fe ₄₉ Rh ₅₁ using the mirage effect. Journal of Applied Physics, 2020, 127, .	2.5	9
44	Heat capacity of a Cr ₂ O ₃ antiferromagnet near the critical temperature. Physics of the Solid State, 2001, 43, 1103-1107.	0.6	8
45	Direct and inverse magnetocaloric effects in A-site ordered PrBaMn ₂ O ₆ manganite. Journal of Alloys and Compounds, 2011, 509, L165-L167.	5.5	8
46	Specific heat, electrical resistivity, and magnetocaloric study of phase transition in Fe ₄₈ Rh ₅₂ alloy. Journal of Applied Physics, 2020, 128, .	2.5	8
47	Dynamics of the magnetocaloric effect in cyclic magnetic fields in Ni ₅₀ Mn ₃₅ Al ₂ Sn ₁₃ ribbon sample. Journal of Materials Science, 2021, 56, 15397.	3.7	8
48	Magnetic phase transitions and magnetocaloric effect in layered intermetallic La _{0.75} Sm _{0.25} Mn ₂ Si ₂ compound. Journal of Magnetism and Magnetic Materials, 2017, 440, 89-92.	2.3	7
49	Thermophysical properties of polymer composite based on multiwalled carbon nanotubes, obtained by electrospinning. High Temperature, 2017, 55, 502-505.	1.0	7
50	Phase transitions, thermal, electrical, and magnetocaloric properties of Ni ₅₀ Mn _{37-x} Al _x Sn ₁₃ (x=2, 4) ribbon samples. Journal of Alloys and Compounds, 2020, 842, 155783.	5.5	7
51	Determination of the magnetocaloric effect from thermophysical parameters and their relationships near magnetic phase transition in doped manganites. Journal of Magnetism and Magnetic Materials, 2020, 513, 167209.	2.3	7
52	Multiferroic polymer composite based on Heusler-type magnetic microwires with combined magnetocaloric and magnetoelectric effects. Journal of Magnetism and Magnetic Materials, 2020, 510, 166884.	2.3	7
53	On the nature of the magnetocaloric effect in the Ni ₄₆ Mn ₄₁ In ₁₃ Heusler alloy in cyclic magnetic fields. Journal of Applied Physics, 2021, 129, .	2.5	7
54	Magnetocaloric effect in manganites in alternating magnetic fields. Journal of Magnetism and Magnetic Materials, 2022, 553, 169300.	2.3	7

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55	Heat capacity and electric resistance of Sm _{0.55} Sr _{0.45} MnO ₃ manganite near T _c in a magnetic field of up to 26 kOe: Fluctuation effects and colossal magnetoresistance development scenario. Journal of Experimental and Theoretical Physics, 2003, 96, 757-765.	0.9	6
56	Heat capacity of the La _{0.9} Ag _{0.1} MnO ₃ manganite near the curie temperature. Physics of the Solid State, 2007, 49, 1769-1772.	0.6	6
57	Anisotropic magnetocaloric properties of the ludwigite single crystal Cu ₂ MnBO ₅ . Applied Physics Letters, 2020, 116, .	3.3	6
58	Thermal Hysteresis Control in Fe ₄₉ Rh ₅₁ Alloy through Annealing Process. Processes, 2021, 9, 772.	2.8	6
59	Thermal and transport properties of manganites (, 0.45). Physica B: Condensed Matter, 2007, 395, 151-154.	2.7	5
60	Critical behavior of the heat capacity of Ag-doped manganites. Physics of the Solid State, 2010, 52, 335-338.	0.6	5
61	Specific heat and low-field magnetocaloric effect in A-site ordered PrBaMn ₂ O ₆ manganite. Philosophical Magazine Letters, 2011, 91, 354-360.	1.2	5
62	Influence of the granule size on the magnetocaloric properties of manganite La _{0.5} Ca _{0.5} MnO ₃ . Physics of the Solid State, 2013, 55, 502-507.	0.6	5
63	Mechanisms of heat carriers scattering in La ^{1-x} Sr _x MnO ₃ single crystals near the phase transition temperature. Journal of Alloys and Compounds, 2017, 705, 740-744.	5.5	5
64	Revision of Clausius-Clapeyron Relation for the First-Order Phase Transition in Ni ^{1-x} Mn ^x In Heusler Alloys. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	5
65	Heat capacity and the magnetocaloric effect in Pr _{0.6} Sr _{0.4} Mn ^{1-x} Fe _x O ₃ manganite. Physics of the Solid State, 2017, 59, 2092-2096.	0.6	5
66	New R ³ A ^c -type half-metal MnBO ₃ with remarkable multiple Dirac-like band crossings: Effects of uniform strain, vacancies, spin-orbit coupling, and hole and electron doping on its electronic structures. Journal of Alloys and Compounds, 2019, 804, 554-565.	5.5	5
67	Critical behavior of the heat capacity of the manganite La _{0.87} K _{0.13} MnO ₃ . Physics of the Solid State, 2011, 53, 2271-2274.	0.6	4
68	Influence of the isotopic substitution ¹⁶ O → ¹⁸ O on the magnetic, electrical, and thermal properties of manganite La _{0.8} Ag _{0.1} MnO ₃ . Physics of the Solid State, 2013, 55, 476-480.	0.6	4
69	Magnetocaloric Effect and Magnetostriction in a Ni _{49.3} Mn _{40.4} In _{10.3} Heusler Alloy in AC Magnetic Fields. Physics of the Solid State, 2018, 60, 1111-1114.	0.6	4
70	Magnetocaloric effect in La _{0.70} Ag _{0.25} MnO ₃ magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2022, 549, 169002.	2.3	4
71	Phonon density of states and heat capacity of CdIn ₂ S ₄ . Physica Status Solidi (B): Basic Research, 1983, 115, K75.	1.5	3
72	Heat capacity of a Cs ₂ HgCl ₄ crystal near phase transitions. Physics of the Solid State, 1997, 39, 153-154.	0.6	3

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73	Low field magnetocaloric effect and heat capacity of A-site ordered NdBaMn ₂ O ₆ manganite. Solid State Communications, 2011, 151, 1820-1823.	1.9	3
74	Magnetocaloric properties of La _{0.7} Ca _{0.3} MnO ₃ manganites with 16O → 18O isotopic substitution. Physics of the Solid State, 2013, 55, 1170-1174.	0.6	3
75	Magnetic and magnetocaloric properties of LuFe _{2-x} Mn _x O ₄ + $\hat{\gamma}$ multiferroics. Physics of the Solid State, 2016, 58, 1143-1147.	0.6	3
76	Specific Heat and Magnetocaloric Effect of LaFe _{11.2-x} Mn _x Co _{0.7} Si _{1.1} (x = 0, 0.1, 0.2, 0.3). Physics of the Solid State, 2020, 62, 841-844.	0.6	3
77	Anomalous heat transfer near the martensite-austenite phase transition in Ni ₅₀ Mn ₂₈ Ga ₂₂ (Cu, Zn) (x =) Tj ETQq1 1,0,784314 rgBT /Cv	3.9	3
78	Thermophysical and Magnetocaloric Properties of the LaFe _{11.1} Mn _{0.1} Co _{0.7} Si _{1.1} Alloy. Physics of Metals and Metallography, 2022, 123, 414-418.	1.0	3
79	Competition fluctuations and hysteresis in manganites in magnetic fields near T _c . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1738-1739.	2.3	2
80	Critical Behavior of the Heat Capacity in the Region of the Incommensurate Phase Transition of C(NH ₂) ₂ Crystals. International Journal of Thermophysics, 2005, 26, 471-477.	2.1	2
81	New magnetic materials Cu _x Mn _{1-x} S with a metal-insulator transition. Physics of the Solid State, 2012, 54, 531-536.	0.6	2
82	Magnetocaloric effect in sandwich structures of La _{1-x} K _x MnO ₃ manganites. Physics of the Solid State, 2016, 58, 1346-1349.	0.6	2
83	Anomalies in the thermophysical properties of polymer composites based on carbon multiwalled nanotubes. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 623-625.	0.6	2
84	Thermal physical properties of the La _{0.825} Sr _{0.175} MnO ₃ single crystals. Physics of the Solid State, 2017, 59, 1879-1882.	0.6	2
85	Component composition of essential oils and antioxidant activity of Hyssopus officinalis L. cultivars introduced in the mountainous conditions of Dagestan. Problems of Biological Medical and Pharmaceutical Chemistry, 2020, 23, 24-30.	0.2	2
86	The Magnetocaloric Effect upon Adiabatic Demagnetization of a Polycrystalline DyNi ₂ Alloy. Physics of Metals and Metallography, 2022, 123, 397-401.	1.0	2
87	Magnetothermo-emf and Wiedemann-Franz law for tungsten single crystals under the conditions of static skin effect. Physics of the Solid State, 2000, 42, 1381-1386.	0.6	1
88	Magnetocaloric and other Properties of Cold Rolled Gd Ribbons. Materials Science Forum, 0, 738-739, 441-445.	0.3	1
89	Effect of the ionic radius of A-cations on the magnetic and magnetocaloric properties of charge-ordered manganite La _{0.5} Ca _{0.5-x} Sr _x MnO ₃ (0 < x < 0.5). Physics of the Solid State, 2015, 57, 2423-2426.	0.6	1
90	Heat Capacity of the Polymer Composite Based on Carbon Nanotubes. Russian Physics Journal, 2017, 60, 227-230.	0.4	1

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91	Thermal, Magnetic, and Magnetotransport Properties of a Rapidly Quenched Ni ₅₀ Mn ₃₅ Al ₂ Sn ₁₃ Tape Sample. <i>Physics of the Solid State</i> , 2020, 62, 1280-1284.	0.6	1
92	Smart thermoresponsive composite activated by magnetocaloric effect. <i>Materials Letters</i> , 2021, 304, 130626.	2.6	1
93	Kerr Microscopy Study of Magnetic Phase Transition in Fe ₄₉ Rh ₅₁ . <i>Physics of Metals and Metallography</i> , 2022, 123, 402-406.	1.0	1
94	The Non-Equilibrium Electron Distribution Function in the Electrical Resistance Problem for Potassium Metal Influence of N- and U-Processes. <i>Physica Status Solidi (B): Basic Research</i> , 1985, 129, 823-833.	1.5	0
95	HEAT CAPACITY AND KINETIC PROPERTIES OF $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ MANGANITE. , 2000, , .		0
96	Critical behavior of heat capacity of the SC(NH ₂) ₂ ferroelectric in the region of incommensurate phase transition. <i>JETP Letters</i> , 2002, 75, 415-417.	1.4	0
97	Thermal conductivity of $\text{Sm}_{1-x}\text{SrxMnO}_3$ manganites in magnetic fields up to. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1742-1744.	2.3	0
98	Thermal capacity, diffusion, and conductivity of $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$ ($x = 0.45$ and 0.5) manganites. <i>Russian Physics Journal</i> , 2007, 50, 383-386.	0.4	0
99	Thermal and electric conductivity of textured Ni-Cr-W alloy ribbon substrates for high-temperature superconductors. <i>Technical Physics Letters</i> , 2012, 38, 665-667.	0.7	0
100	Electric-field control of magnetocaloric effect in FeRh-based composite. , 2017, , .		0
101	Critical Behavior of the Specific Heat of $\text{Pr}_{0.6}\text{Sr}_{0.4}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ Manganites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 197-201.	1.8	0
102	COMPARATIVE ANALYSIS OF ESSENTIAL OIL COMPONENT IN DRACOCEPHALUM MOLDAVICA L. VARIETIES INTRODUCED IN MOUNTAIN CONDITIONS OF DAGESTAN. <i>AIC Development Problems of the Region</i> , 2021, , 156-161.	0.0	0
103	Thermal and Magnetocaloric Properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{BaxMnO}_3$ Manganites. <i>Physics of the Solid State</i> , 0, , .	0.6	0
104	Direct and Inverse Magnetocaloric Effect in a Ni ₅₀ Mn ₃₅ Al ₂ Sn ₁₃ Heusler-Alloy Ribbon Sample. <i>Physics of Metals and Metallography</i> , 2022, 123, 392-396.	1.0	0