

Piotr Gebara

List of Publications by Citations

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59
papers

296
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64
ext. papers

407
ext. citations

2.1
avg, IF

4.28
L-index

#	Paper	IF	Citations
59	Broadening of temperature working range in magnetocaloric La(Fe,Co,Si) ₁₃ - based multicomposite. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 442, 145-151	2.8	29
58	Effect of Al content on the order of phase transition and magnetic entropy change in LaFe ₁₁ Co _{0.8} (Si _{1-x} Al _x) _{1.2} alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 372, 201-207	2.8	24
57	Effect of Partial Substitution of La by Ce on the Nature of Phase Transition in Magnetocaloric La _{1-x} Ce _x Fe _{11.2} Co _{0.7} Si _{1.1} Alloys. <i>Journal of Electronic Materials</i> , 2017 , 46, 6518-6522	1.9	15
56	Alteration of negative lattice expansion of the La(Fe,Si) ₁₃ -type phase in LaFe _{11.14} Co _{0.66} Ni _x Si _{1.2} alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 422, 61-65	2.8	13
55	Magnetocaloric response of binary Gd-Pd and ternary Gd-(Mn,Pd) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 500, 166175	2.8	12
54	Magnetocaloric effect of the LaFe _{11.2} Co _{0.7} Si _{1.1} modified by partial substitution of La by Pr or Ho. <i>Materials and Design</i> , 2017 , 129, 111-115	8.1	11
53	Magnetic Properties of SMC Cores Produced at a Low Compacting Temperature. <i>Acta Physica Polonica A</i> , 2017 , 131, 1289-1294	0.6	11
52	Anomalous behavior of thermal expansion of Fe impurities in the La(Fe,Co,Si) ₁₃ - based alloys modified by Mn or selected lanthanides (Ce, Pr, Ho). <i>Current Applied Physics</i> , 2019 , 19, 188-192	2.6	11
51	Magnetocaloric effect of LaFe _{11.35} Co _{0.6} Si _{1.05} alloy. <i>Rare Metals</i> , 2017 , 1	5.5	10
50	Phase Deconvolution of Multiphasic Materials by the Universal Scaling of the Magnetocaloric Effect. <i>Jom</i> , 2020 , 72, 2845-2852	2.1	9
49	Phase composition and magnetic properties of (Pr, Dy)Fe ₁₀ Co ₁ (Ni, Mn)B ₂ r ₁ alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S333-S336	5.7	9
48	Thermodynamic approach for determining chemical composition of Fe-Co based amorphous alloys with high thermal stability and glass forming ability. <i>Journal of Alloys and Compounds</i> , 2018 , 763, 141-152	5.7	9
47	Determination of Phase Transition and Critical Behavior of the As-Cast GdGeSi-(X) Type Alloys (Where X = Ni, Nd and Pr). <i>Materials</i> , 2021 , 14,	3.5	9
46	Structure, magnetocaloric properties and thermodynamic modeling of enthalpies of formation of (Mn,X)-Co-Ge (X = Zr, Pd) alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 796, 153-159	5.7	8
45	A Study of Temperature-Dependent Hysteresis Curves for a Magnetocaloric Composite Based on La(Fe, Mn, Si) ₁₃ -H Type Alloys. <i>Energies</i> , 2020 , 13, 1491	3.1	8
44	Influence of Nb addition on vacancy defects and magnetic properties of the nanocrystalline NdFeB permanent magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 382, 307-311	2.8	8
43	Influence of magnetite nanoparticles surface dissolution, stabilization and functionalization by malonic acid on the catalytic activity, magnetic and electrical properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 607, 125446	5.1	8

42	Microstructure and some thermomagnetic properties of amorphous Fe-(Co)-Mn-Mo-B alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 253-260	5.7	8
41	The influence of partial substitution of La by Dy on structure and thermomagnetic properties of the LaFe _{11.0} Co _{0.7} Si _{1.3} alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 454, 298-303	2.8	7
40	Combustion synthesis of silicon by magnesiothermic reduction. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2018 , 193, 280-287	1	7
39	The influence of cooling rate, chromium and silicon addition on the structure and properties of AlCoCrFeNiSi high entropy alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 502, 166492	2.8	6
38	Phase Composition and Magnetic Properties of the Nanocrystalline Fe _{64.32} Pr _{9.6} B _{22.08} W _{4} Alloy. <i>Acta Physica Polonica A</i> , 2014 , 126, 164-165	0.6	6
37	Structure and magnetic properties of ultrafine superparamagnetic Sn-doped magnetite nanoparticles synthesized by glycol assisted co-precipitation method. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 145, 109530	3.9	5
36	Glass-Forming Ability and Corrosion Resistance of AlYFe (x = 0, 1, 2 at.%) Alloys. <i>Materials</i> , 2021 , 14,	3.5	5
35	A Study of Novel Medical Alloys of the Ti-Zr System. <i>Metal Science and Heat Treatment</i> , 2016 , 58, 417-420.6		4
34	Magnetic Properties of the Nanocrystalline Nd _{9.6} Fe _{64.32} Nb ₄ B _{22.08} Alloy Ribbons. <i>Archives of Metallurgy and Materials</i> , 2012 , 57,		4
33	Magnetic Properties and Structure after Crystallization of Fe _{80-x} B ₂₀ Nb _x (x=4, 6, 10) Metallic Glasses. <i>Acta Physica Polonica A</i> , 2017 , 131, 1212-1217	0.6	4
32	Structure and Magnetic Properties of Fe-B-Si-Zr Metallic Glasses. <i>Acta Physica Polonica A</i> , 2017 , 131, 726-728		3
31	Influence of Partial Substitution of Fe by Mn on the Thermomagnetic Properties of Magnetocaloric LaFe _{11.2} Co _{0.7} Si _{1.1} Alloy. <i>Acta Physica Polonica A</i> , 2018 , 133, 648-650	0.6	3
30	The Harrison Model as a Tool to Study Phase Transitions in Magnetocaloric Materials. <i>Acta Physica Polonica A</i> , 2018 , 134, 1217-1220	0.6	3
29	Effect of Temperature on Magnetization Curves near Curie Point in LaFeCoSi Alloy. <i>Acta Physica Polonica A</i> , 2020 , 137, 918-921	0.6	3
28	Influence of Magnetite Nanoparticles Shape and Spontaneous Surface Oxidation on the Electron Transport Mechanism. <i>Materials</i> , 2021 , 14,	3.5	3
27	Effects of Co, Ni, and Cr addition on microstructure and magnetic properties of amorphous and nanocrystalline Fe _{86-x} M _x Zr ₇ Nb ₂ Cu ₁ B ₄ (M = Co, Ni, CoCr, and Cr, x = 0 or 6) alloys. <i>Nukleonika</i> , 2015 , 60, 103-108	1	2
26	The effect of heat treatment on the phase constitution and magnetic properties of Pr ₉ Fe ₆₀ Co ₁₃ Zr ₁ Ti ₃ B ₁₄ alloy ribbons. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 1174-1177	1.6	2
25	Phase structure and crystallization of the bulk glassy FeCoZrWB alloys. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 1336-1339		2

24	The Influence of Thickness and Number of Layers on Selected Properties of Cu/Ni Systems. <i>Acta Physica Polonica A</i> , 2019 , 135, 172-176	0.6	2
23	Investigation of critical behavior in the vicinity of ferromagnetic to paramagnetic phase transition in the Fe ₇₅ Mo ₈ Cu ₁ B ₁₆ alloy. <i>Journal of Applied Physics</i> , 2018 , 124, 083904	2.5	2
22	Effect of Preparing Conditions on the Phase Constitution and Magnetic Properties of Nd-Pr-Fe-Zr-B Alloy Ribbons. <i>Acta Physica Polonica A</i> , 2015 , 127, 570-572	0.6	1
21	Effect of Tungsten Addition on Phase Constitution and Magnetic Properties of the Bulk Fe ₆₅ Pr ₉ B ₂₆ -xW _x Alloys. <i>Acta Physica Polonica A</i> , 2015 , 128, 104-106	0.6	1
20	Influence of Al and Ga on Formation of the La(Fe,Si) ₁₃ -Type Phase in the LaFe _{11.14} Co _{0.66} Si _{1.2} -xM _x (where x=0.1, 0.2, 0.3; M=Al, Ga) Alloys. <i>Acta Physica Polonica A</i> , 2016 , 129, 193-196	0.6	1
19	Investigation of Critical Behavior in Gd ₇₅ Ge ₁₅ Si ₅ Ce ₅ Alloy. <i>Acta Physica Polonica A</i> , 2017 , 131, 1232-1235.6		1
18	Magnetocaloric Effect in Amorphous and Partially Crystallized Fe ₈₀ Zr ₇ Cr ₆ Nb ₂ Cu ₁ B ₄ Alloy. <i>Acta Physica Polonica A</i> , 2018 , 133, 676-679	0.6	1
17	Magnetocaloric Effect in Annealed (Mn,W)-Co-Ge Alloy. <i>Acta Physica Polonica A</i> , 2019 , 135, 298-300	0.6	1
16	Magnetic Properties of LaFeCoSi Ring Sample in Low-Frequency Magnetic Field. <i>Acta Physica Polonica A</i> , 2019 , 136, 689-692	0.6	1
15	Investigation of Mechanical and Magnetic Properties of Co-Based Amorphous Powders Obtained by Atomization. <i>Materials</i> , 2021 , 14,	3.5	1
14	Investigations of the Magnetization Reversal Processes in Nanocrystalline Nd-Fe-B Alloys Doped by Nb. <i>Acta Physica Polonica A</i> , 2017 , 131, 789-791	0.6	1
13	Tuning of the Structure and Magnetocaloric Effect of MnZrCoGe Alloys (Where x = 0.03, 0.05, 0.07, and 0.1). <i>Materials</i> , 2021 , 14,	3.5	1
12	Modeling hysteresis curves of La(FeCoSi) ₁₃ compound near the transition point with the GRUCAD model. <i>Open Physics</i> , 2018 , 16, 266-270	1.3	1
11	Specific Heat and Magnetocaloric Effect of LaFe _{11.2} \bar{x} Mn _x Co _{0.7} Si _{1.1} (x = 0, 0.1, 0.2, 0.3). <i>Physics of the Solid State</i> , 2020 , 62, 841-844	0.8	0
10	The effect of cooling rate on the structure and selected properties of AlCoCrFeNiSix (x = 0; 0.25; 0.5; 0.75) high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2022 , 905, 164074	5.7	0
9	Fractal Structures in Electrodeposition Process. <i>Acta Physica Polonica A</i> , 2020 , 138, 287-290	0.6	0
8	Electrochemical Comparative Characteristics of La(Fe,Si) ₁₃ Type Materials with Different Content of Co in Acidified Phosphate Environment in Presence of Cl ⁻ Ions. <i>Medziagotyra</i> , 2019 , 25, 265-269	0.4	
7	Magnetization Reversal Processes in Nanocrystalline (Pr, Dy)-(Fe, Co)-B Bulk Alloys. <i>Acta Physica Polonica A</i> , 2015 , 127, 579-581	0.6	

- 6 Influence of Nb Addition on Magnetic Properties of the Nanocrystalline (Nd₁₀Fe₆₇B₂₃)_{100-x}Nb_x(where x = 1, 2, 4) Alloy Ribbons. *Acta Physica Polonica A*, **2015**, 127, 623-625 0.6
- 5 Structural and Magnetic Studies of the LaFe_{11.2}Co_{0.7-x}Mn_xSi_{1.1} (where x=0.1, 0.2) Alloys. *Acta Physica Polonica A*, **2018**, 133, 232-235 0.6
- 4 Magnetic Characteristic of Composites Based on Nd-M-B/Polymeric Biomaterial in the Aspect of Prosthetic Applications. *Acta Physica Polonica A*, **2019**, 135, 219-222 0.6
- 3 The Effect of Annealing Temperature on the Phase Constitution and Magnetic Properties of the Pr₈Dy₁Fe₆₀Co₇Mn₆B₁₄Zr₁Ti₃Alloy Ribbons. *Acta Physica Polonica A*, **2015**, 128, 94-97 0.6
- 2 Investigations of the Magnetic Phase Transition in the LaFe_{11.14}Co_{0.66}Si_{1.1}M_{0.1} (Where M~Al or Ga) Alloys. *Acta Physica Polonica A*, **2017**, 131, 798-800 0.6
- 1 The influence of the DC-biased magnetic field on dynamic magnetic properties of the LaFeCoSi alloy. *Journal of Magnetism and Magnetic Materials*, **2020**, 500, 166328 2.8