

Lotfi Bessais

List of Publications by Year in descending order

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220
papers

3,926
citations

147801

31
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168389

53
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236
all docs

236
docs citations

236
times ranked

2637
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of the influence of copper and chromium substitution on crystal structure, magnetic properties and magnetocaloric effect of GdFe ₂ (Cu, Cr) (x = 0, 0.1, 0.15 and 0.2) intermetallic compounds. Journal of Physics and Chemistry of Solids, 2022, 160, 110343.	4.0	6
2	Structural, magnetic and magnetocaloric properties of (Pr,Sm) ₂ Fe ₁₇ compound at room temperature. Journal of Physics and Chemistry of Solids, 2022, 161, 110438.	4.0	13
3	Magnetic, structural and magnetocaloric effect investigations on the substituted spinel Mg _{1-x} Zn _x Fe ₂ O ₄ (0 ≤ x ≤ 1) prepared by sol-gel method. Journal of Alloys and Compounds, 2022, 896, 162836.	5.5	7
4	Influence of Chemical Substitution and Light Element Insertion on the Magnetic Properties of Nanocrystalline Pr ₂ Co ₇ Compound. Magnetochemistry, 2022, 8, 20.	2.4	4
5	Investigation of Magnetic Entropy Change in Intermetallic Compounds SmNi ₃ xFe _x Based on Maxwell Relation and Phenomenological Model. Crystals, 2022, 12, 481.	2.2	0
6	Structural, spectroscopic, luminescence and magnetic properties of a novel far-red emitting phosphor Er, Mn doped ZrTe ₃ O ₈ . Inorganic Chemistry Communication, 2022, 140, 109429.	3.9	1
7	Structure and Magnetic Properties of Intermetallic Rare-Earth-Transition-Metal Compounds: A Review. Materials, 2022, 15, 201.	2.9	10
8	Magnetic properties, critical behavior and magnetocaloric effect in the nanocrystalline Pr ₂ Fe ₁₆ Al. Journal of Physics and Chemistry of Solids, 2022, 169, 110752.	4.0	5
9	Low field magnetocaloric effect of PrCo ₃ compounds. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	2
10	Electronic structure, hyperfine parameters and magnetic properties of RFe ₁₁ Ti intermetallic compounds (R = Y, Pr): Ab initio calculations, SQUID magnetometry and Mössbauer studies. Journal of Magnetism and Magnetic Materials, 2021, 518, 167362.	2.3	4
11	Mg-substitution effect on microstructure, dielectric relaxation and conduction phenomenon of Fe based perovskite nanomaterials. Journal of Alloys and Compounds, 2021, 856, 157425.	5.5	12
12	Site Occupancy Determination in Th ₂ Zn ₁₇ - and TbCu ₇ -types Sm ₂ Fe ₁₇ Co _x Compounds using Synchrotron Resonant Diffraction. Inorganic Chemistry, 2021, 60, 1533-1541.	4.0	4
13	Tuning the Magnetocaloric Properties of the La(Fe,Si) ₁₃ Compounds by Chemical Substitution and Light Element Insertion. Magnetochemistry, 2021, 7, 13.	2.4	14
14	Influence of neodymium substitution on structural, magnetic and spectroscopic properties of Ni ₂ Zn ₂ Al nano-ferrites. RSC Advances, 2021, 11, 13256-13268.	3.6	33
15	Large magnetocaloric entropy change in ferrimagnetic Er _{1-x} Co ₂ systems at cryogenic temperatures: the role of erbium deficiency. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	4
16	Magnetism and magnetocaloric effect in iron-rich Pr ₂ Fe ₁₄ B intermetallics. Journal of Materials Science: Materials in Electronics, 2021, 32, 5548-5555.	2.2	3
17	Synthesis and study of the structural and dielectric properties of La _{0.67} Ca _{0.2} Ba _{0.13} Fe _{1-x} Mn _x O ₃ ferrites (x = 0, 0.03 and 0.06). Journal of Materials Science: Materials in Electronics, 2021, 32, 7926-7942.	2.2	6

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19	Low-field magnetocaloric effect of $\text{NdFe}_{11}\text{Ti}$ and $\text{SmFe}_{10}\text{V}_2$ compounds. Journal of Materials Science: Materials in Electronics, 2021, 32, 10579-10586.	2.2	4
20	Effect of chromium substitution on structural, magnetic and magnetocaloric properties of $\text{GdFe}_{12}\text{Cr}$ intermetallic compounds, Mössbauer spectrometry and ab initio calculations. Journal of Solid State Chemistry, 2021, 297, 122019.	2.9	8
21	Structural, magnetic and magnetocaloric study of $\text{Sm}_2\text{Fe}_{17}\text{Ni}_x$ ($x=0, 0.25, 0.35$ and 0.5) compounds. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	3
22	Impact of particle size on the structural and magnetic properties of superparamagnetic Li-ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2021, 528, 167806.	2.3	26
23	Magnetocaloric Effect in SmNi_2 Compound. Chemistry Africa, 2020, 3, 111-118.	2.4	8
24	Study of exchange interaction, magnetization correlations and random magnetic anisotropy in nanocrystalline Pr_2Co_7 films deposited on Si substrate. Journal of Magnetism and Magnetic Materials, 2020, 494, 165816.	2.3	12
25	Study of the magnetic and magnetocaloric properties at low-field in $\text{Nd}_2\text{Fe}_{17}\text{Si}$ compound. Journal of Magnetism and Magnetic Materials, 2020, 494, 165816.	2.3	12
26	Microstructure and magnetic anisotropy properties of Pr_2Co_7 films deposited on $\text{Al}_2\text{O}_3(0001)$ substrate. Vacuum, 2020, 174, 109168.	3.5	11
27	Increase of magnetic and magnetoelectric properties in Co/Mn co-doped BiFeO_3 multiferroic. Journal of Magnetism and Magnetic Materials, 2020, 498, 166137.	2.3	14
28	Structural, Magnetic and Magnetocaloric Properties of $\text{Co}_2\text{Y}_{1-x}\text{Cu}_x$ ($x=0.00, 0.05,$ and 0.10) Compounds. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1527-1533.	1.8	2
29	Structural, elastic, optical and dielectric properties of $\text{Li}_0.5\text{Fe}_2.5\text{O}_4$ nanopowders with different particle sizes. Advanced Powder Technology, 2020, 31, 4714-4730.	4.1	35
30	Experimental design approach for the synthesis of 3D- CoFe_2O_4 nanoflowers thin films by low-cost process. Materials Chemistry and Physics, 2020, 255, 123493.	4.0	11
31	Magnetic and spectroscopic properties of NiZnAl ferrite spinel: from the nanoscale to microscale. RSC Advances, 2020, 10, 34556-34580.	3.6	149
32	Law of Approach to Magnetic Saturation in Nanocrystalline $\text{Pr}_2\text{Co}_7\text{C}_x$ ($x=0.1$): Effects of Carbonation. Spin, 2020, 10, 2050016.	1.3	4
33	Structure, Magnetocaloric Effect and Critical Behaviour in $\text{Ni}_{50}\text{Mn}_{30}(\text{Sn},\text{In})_{20}$ Heusler Alloys. Journal of Superconductivity and Novel Magnetism, 2020, 33, 2209-2218.	1.8	4
34	Crystal structure of nanocrystalline $\text{Pr}_5\text{Co}_{19}$ compound and its hydrogen storage properties. International Journal of Hydrogen Energy, 2020, 45, 11190-11198.	7.1	1
35	Solid-state phase equilibria in the Er-Nd-Fe ternary system at 1073 K. Journal of Alloys and Compounds, 2020, 844, 155754.	5.5	4
36	Griffiths phase, magnetic memory and ac susceptibility of an antiferromagnetic titanate-based perovskite $\text{Er}_{0.9}\text{Sr}_{0.1}\text{Ti}_{0.975}\text{Cr}_{0.025}\text{O}_3$ system. Physica Scripta, 2020, 95, 055807.	2.5	7

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37	Unconventional critical behavior of the magnetic refrigerant system $\text{Er}_{0.98}\text{Co}_2$ around its ferromagnetic-paramagnetic transition. <i>Physica Scripta</i> , 2020, 95, 055811.	2.5	1
38	Crystal structure, spectroscopic, magnetic and dielectric studies of new doped ceramic $\text{ZrTe}_3\text{O}_8:7\%\text{CuO}$. <i>Journal of Alloys and Compounds</i> , 2020, 825, 153974.	5.5	1
39	Structural, magnetic and AC susceptibility properties of $\text{Dy}_{0.5}(\text{Sr}_{1-x}\text{Ca}_x)\text{MnO}_3$ ($0 \leq x \leq 0.3$) manganites. <i>Journal of Molecular Structure</i> , 2019, 1175, 844-851.	3.6	21
40	Iron Oxide Nanoflower-Based Screen Print Electrode for Enhancement Removal of Organic Dye Using Electrochemical Approach. <i>Electrocatalysis</i> , 2019, 10, 663-671.	3.0	15
41	Differently shaped nanocrystalline $(\text{Fe}, \text{Y})_3\text{O}_4$ and its adsorption efficiency toward inorganic arsenic species. <i>Nanotechnology</i> , 2019, 30, 475702.	2.6	5
42	Effect of annealing temperature on the microstructure of Pr_2Co_7 alloy and its hydrogen absorption-desorption kinetics. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 22011-22021.	7.1	10
43	First principle investigation on hydrogen solid storage in $\text{Zr}_{1-x}\text{Nb}_x\text{NiH}_3$ ($x = 0$ and 0.1). <i>International Journal of Hydrogen Energy</i> , 2019, 44, 23188-23195.	7.1	23
44	Investigation of annealing effects on the physical properties of $\text{Ni}_{0.6}\text{Zn}_{0.4}\text{Fe}_{1.5}\text{Al}_{0.5}\text{O}_4$ ferrite. <i>RSC Advances</i> , 2019, 9, 19949-19964.	3.6	50
45	Study of the effect of Mn substitution on the electrical and dielectric behavior of Spinel structured materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 21018-21031.	2.2	15
46	Controllable synthesis, XPS investigation and magnetic property of multiferroic BiMn_2O_5 system: The role of neodyme doping. <i>Progress in Natural Science: Materials International</i> , 2019, 29, 198-209.	4.4	19
47	An investigation of the Gd-Fe-Cr phase diagram: Phase equilibria at 800°C . <i>Journal of Alloys and Compounds</i> , 2019, 792, 87-94.	5.5	9
48	Optimization of Magnetocaloric Properties of Ball-Milled $\text{La}(\text{Fe}, \text{Co}, \text{Si})_{13}$ (H,C) y . <i>Minerals, Metals and Materials Series</i> , 2019, , 593-598.	0.4	0
49	Nanocrystalline Multifunctional Pr-Co Compounds. <i>Minerals, Metals and Materials Series</i> , 2019, , 607-615.	0.4	0
50	Annealing effect on structural, microstructural and magnetic properties of nanocrystalline Er-Co-B alloys for permanent magnet applications. <i>Materials Chemistry and Physics</i> , 2019, 228, 60-65.	4.0	8
51	Structural, Magnetic, Magnetocaloric and Mössbauer Spectrometry Study of $\text{Gd}_2\text{Fe}_{17-x}\text{Cu}_x$ ($x = 0, 0.5, 1$ and 1.5) Compounds. <i>Journal of Electronic Materials</i> , 2019, 48, 2242-2253.	2.2	12
52	Investigation of the structural, optical, elastic and electrical properties of spinel $\text{LiZn}_2\text{Fe}_3\text{O}_8$ nanoparticles annealed at two distinct temperatures. <i>RSC Advances</i> , 2019, 9, 40940-40955.	3.6	56
53	EXAFS unraveling of the Fe substitution sites in high anisotropic nanocrystalline PrCo_3Fe_3 . <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 473, 253-261.	2.3	1
54	The 1073°K isothermal section of the Gd-Fe-Cu system. <i>Journal of Alloys and Compounds</i> , 2019, 781, 159-165.	5.5	5

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55	Effect of A-site deficiency on the structural and magnetic properties of $\text{La}_{0.8}\text{Na}_{0.2}\text{MnO}_3$ oxides and estimation of the magnetocaloric behavior. <i>Solid State Communications</i> , 2019, 289, 30-37.	1.9	5
56	Critical behavior, magnetic and magnetocaloric properties of melt-spun $\text{Ni}_{50}\text{Mn}_{35}\text{Sn}_{15}$ ribbons. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1662-1672.	5.5	10
57	Second-Order Magnetic Transition and Low Field Magnetocaloric Effect in Nanocrystalline $\text{Pr}_5\text{Co}_{19}$ Compound. <i>Journal of Electronic Materials</i> , 2018, 47, 2776-2781.	2.2	13
58	Effect of synthesis route on structural, magnetic and magnetocaloric aspects and critical behavior of $\text{La}_{0.6}\text{Ca}_{0.3}\text{Ag}_{0.1}\text{MnO}_3$. <i>Journal of Alloys and Compounds</i> , 2018, 753, 282-291.	5.5	26
59	Magnetism and Hyperfine Parameters in Iron Rich $\text{Gd}_2\text{Fe}_{17-x}\text{Si}_x$ Intermetallics. <i>Journal of Electronic Materials</i> , 2018, 47, 3836-3846.	2.2	9
60	Microstructure Characterization of an Aluminium Alloy Processed by Milling Followed by Spark Plasma Sintering. <i>Crystal Research and Technology</i> , 2018, 53, 1700137.	1.3	2
61	Electronic structure and magnetic properties of PrCo intermetallics: ab initio FP-LAPW calculations and correlation with experiments. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 095704.	1.8	4
62	Large magnetoelectric response and its origin in bulk Co-doped BiFeO_3 synthesized by a stirred hydrothermal process. <i>Acta Materialia</i> , 2018, 145, 316-321.	7.9	48
63	Mild hydrothermal synthesis of the two compounds $[\text{SrZn}_2(\text{SeO}_3)_3]$ and $[\text{SrZn}_{0.68}\text{Cu}_{0.32}(\text{SeO}_3)_2]$: Structural characterization, spectroscopic and magnetic studies. <i>Journal of Saudi Chemical Society</i> , 2018, 22, 887-895.	5.2	2
64	Effect of Small Fe Content on the Structure, Magnetic and Magnetocaloric Properties of SmNi_3Fe_x ($x = 0; 0.3$ and 0.8) Intermetallic Compounds. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 511-520.	1.8	3
65	Effect of Ball-Milling on Magnetic Properties of Uniaxial Nanocrystalline SmNi_2Fe Compound. <i>Journal of Electronic Materials</i> , 2018, 47, 1658-1664.	2.2	4
66	Relationship between microstructural and magnetic properties of PrCo -based films prepared by the vacuum evaporation method. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 451, 473-479.	2.3	8
67	Random magnetic anisotropy studies in nanocrystalline $\text{Pr}_2\text{Co}_7\text{H}_x$ ($0 \leq x \leq 3.75$) hydrides. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 449, 461-466.	2.3	15
68	Influence of Fe-substitution on structural, magnetic and magnetocaloric properties of $\text{Nd}_2\text{Fe}_{17}\text{-Co}$ solid solutions. <i>Journal of Solid State Chemistry</i> , 2018, 258, 501-509.	2.9	17
69	Random Magnetic Anisotropy Studies in SmCo_5 Thin Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 2055-2058.	1.8	11
70	Influence of insolubility of silver on the Hirshfeld surface analyses and magnetic behavior of $\text{La}_{0.5}\text{Ca}_{0.1}\text{Ag}_{0.4}\text{MnO}_3$ compound. <i>Chemical Physics Letters</i> , 2018, 691, 262-270.	2.6	11
71	Synthesis of (2D) MNPs nanosheets of nickel ferrite using a low-cost co-precipitation process. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 232-235, 48-54.	3.5	11
72	Hydrogenation and the effect of H absorption on structural and magnetic properties of nanocrystalline Ni_2Fe alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 465, 220-227.	2.3	11

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73	Effect of stacking blocks on the low field magnetic refrigeration in nanocrystalline Pr ₂ Co ₇ compound. <i>Intermetallics</i> , 2018, 100, 181-187.	3.9	10
74	Effect of carbonation on the structural, magnetic and magnetocaloric properties of uniaxial nanocrystalline Pr ₅ Co ₁₉ C _x compound. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 466, 411-419.	2.3	3
75	Experimental Investigation of the Isothermal Section at 800°C of the Nd-Fe-Co Ternary System. <i>Journal of Phase Equilibria and Diffusion</i> , 2017, 38, 561-567.	1.4	9
76	Brilliant effect of Ca substitution in the appearance of magnetic memory in Dy _{0.5} (Sr _{1-x} Ca _x) _{0.5} MnO ₃ (x=0.3) manganites. <i>Intermetallics</i> , 2017, 89, 118-122.	3.9	12
77	Structural and magnetic properties of new uniaxial nanocrystalline Pr ₅ Co ₁₉ compound. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 441, 566-571.	2.3	15
78	Magnetocaloric properties and Landau theory of Dy _{0.5} (Sr _{1-x} Ca _x) _{0.5} MnO ₃ (0 ≤ x ≤ 0.3) manganites at cryogenic temperatures. <i>Chemical Physics Letters</i> , 2017, 680, 94-100.	2.6	28
79	Experimental investigation of the Y-Fe-Ga ternary phase diagram: Phase equilibria and new isothermal section at 800°C. <i>Journal of Alloys and Compounds</i> , 2017, 719, 256-263.	5.5	10
80	Structural and magnetic properties of self-assembled cobalt on porous silicon; experimental and micromagnetic investigations. <i>Physica B: Condensed Matter</i> , 2017, 518, 81-87.	2.7	2
81	Correlation between structural, magnetic and electric properties of La _{0.5} Ca _{0.3} Te _{0.2} MnO ₃ sample synthesis by sol-gel method. <i>Chemical Physics Letters</i> , 2017, 684, 72-78.	2.6	14
82	Structural and Magnetocaloric Properties of Ball Milled LaFe _{13-x} Si _x (H,C) _y . <i>MRS Advances</i> , 2017, 2, 3447-3452.	0.9	1
83	Magnetic and magnetocaloric properties in sulfospinel Cd _{1-x} Zn _x Cr ₂ S ₄ (x= 0, 0.3, 0.5) powders. <i>Chemical Physics Letters</i> , 2017, 688, 84-88.	2.6	15
84	Magnetic and magnetocaloric properties in amorphous and crystalline Tb _{0.67} Au _{0.33} alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 443, 374-377.	2.3	13
85	Resistivity, I-V characteristics and Hall effect in Dy _{0.5} (Sr _{1-x} Ca _x) _{0.5} MnO ₃ manganites. <i>Materials Research Bulletin</i> , 2017, 95, 525-531.	5.2	28
86	Structural, magnetic, magnetocaloric and electrical studies of Dy _{0.5} (Sr _{1-x} Ca _x) _{0.5} MnO ₃ manganites. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 444, 270-279.	2.3	35
87	Magnetocaloric effect in CoEr ₂ intermetallic compound. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 444, 106-110.	2.3	26
88	Structure and magnetic properties of Sm(Fe,Si) ₉ C _{1±} -Fe nanocomposite magnets. <i>Journal of Alloys and Compounds</i> , 2017, 695, 810-817.	5.5	1
89	Structural and magnetic studies on perovskite rare-earth manganites (Nd _{1-x} Gd _x) _{0.55} Sr _{0.45} MnO ₃ (x=0, 0.1, 0.2, 0.3, 0.4, 0.5). <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 426, 757-766.	2.3	5
90	Synthesis, crystal structure determination, thermal and magnetic properties of the new Cu _{0.73} Ni _{0.27} (HSeO ₃) ₂ compound. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 422, 315-321.	2.3	0

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91	Semi-hard magnetic properties of nanoparticles of cobalt ferrite synthesized by the co-precipitation process. Journal of Alloys and Compounds, 2017, 694, 1295-1301.	5.5	55
92	Influence of crystallite size reduction on the magnetic and magnetocaloric properties of La _{0.6} Sr _{0.35} Ca _{0.05} CoO ₃ nanoparticles. Polyhedron, 2017, 121, 19-24.	2.2	11
93	Dielectric Property Conduction Mechanism and Thermal Analysis of Cu _{1-x} Ni _x O (HSeO ₃) ₂ Cl ₂ ·4H ₂ O Compound. Journal of Superconductivity and Novel Magnetism, 2017, 30, 603-613.	1.8	0
94	Effect of Al Substitution on Structural, Magnetic, and Magnetocaloric Properties of Er ₆ Fe ₂₃ Al _x (x) Tj ETQq0 0 0,rgBT /Overlock 10 TF	2.2	3
95	Improving Hard Magnetic and Magnetocaloric Properties of Nanocrystalline Intermetallics. MRS Advances, 2016, 1, 2367-2372.	0.9	0
96	Structure, magnetic and magnetocaloric properties of new nanocrystalline (Pr,Dy)Fe ₉ compounds. Journal of Alloys and Compounds, 2016, 684, 291-298.	5.5	14
97	Structural, magnetic, magneto-caloric and Mössbauer spectral study of Tb ₂ Fe ₁₇ compound synthesized by arc melting. Journal of Solid State Chemistry, 2016, 238, 15-20.	2.9	24
98	Crystal structure, magnetic, thermal behavior, and spectroscopic studies of two new bimetallic hydrogenselenites: [Cu _{2-x} Ni _x (HSeO ₃) ₂ Cl ₂ ·4H ₂ O], (x=0.62; 0.91). Journal of Molecular Structure, 2016, 1118, 259-266.	3.6	10
99	X-ray diffraction analysis of the magnetoelastic phase transition in the Mn-Fe-P-Si magnetocaloric alloy. AIP Advances, 2016, 6, .	1.3	9
100	Phase stability, EXAFS investigation and correlation between nanostructure and extrinsic magnetic properties of nanocrystalline Pr ₂ (Co,Fe) ₇ . Journal of Alloys and Compounds, 2016, 666, 317-326.	5.5	11
101	Correlation between magnetic and electric properties of La _{0.5} Ca _{0.3} Ag _{0.2} MnO ₃ based on critical behavior of resistivity. Ceramics International, 2016, 42, 10405-10409.	4.8	19
102	Structural, atomic Hirschfeld surface, magnetic and magnetocaloric properties of SmNi ₅ compound. Journal of Alloys and Compounds, 2016, 672, 440-448.	5.5	28
103	Investigations of SmCo Thin Films Grown on Kapton Substrate. Journal of Superconductivity and Novel Magnetism, 2016, 29, 383-388.	1.8	6
104	The isothermal section phase diagram of the Sm-Fe-Ni ternary system at 800°C. Journal of Alloys and Compounds, 2016, 661, 508-515.	5.5	21
105	Prediction of magnetocaloric effect in La _{0.6} Ca _{0.4-x} Sr _x MnO ₃ compounds for x=0, 0.05 and 0.4 with phenomenological model. Ceramics International, 2016, 42, 697-704.	4.8	23
106	Investigation on structural and magnetocaloric properties of LaFe ₁₃ Si (H,C) compounds. Journal of Solid State Chemistry, 2016, 233, 95-102.	2.9	41
107	Study of the first paramagnetic to ferromagnetic transition in as prepared samples of Mn-Fe-P-Si magnetocaloric compounds prepared by different synthesis routes. Journal of Magnetism and Magnetic Materials, 2016, 400, 333-338.	2.3	38
108	Study of texture, mechanical and electrical properties of cold drawn AGS alloy wire. Steel and Composite Structures, 2016, 22, 745-752.	1.3	4

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109	Structural and magnetic properties of $\text{PrCo}_{3-x}\text{Fe}_x$ by neutron powder diffraction and electronic structure investigations. <i>Journal of Solid State Chemistry</i> , 2015, 230, 19-25.	2.9	5
110	Study of the Magnetocaloric Effect in $(\text{Pr}, \text{Dy})_2\text{Fe}_{17}$ and $\text{Pr}_2(\text{Fe}, \text{Al})_{17}$ Intermetallic Compounds. <i>Physics Procedia</i> , 2015, 75, 1435-1441.	1.2	10
111	Influence of bismuth on magnetism and magnetocaloric properties of $\text{LaFe}_{11.6}\text{Si}_{1.4}$ intermetallic compound. <i>Journal of Rare Earths</i> , 2015, 33, 740-745.	4.8	6
112	Comparative Study of Nanoparticles $\text{Fe}_{100-x}\text{Co}_x$ Alloy Synthesized by High Energy Ball Milling and by Polyol Process. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 3439-3445.	1.8	2
113	A-site-deficiency effect on critical behavior in the $\text{Pr}_{0.6}\text{Sr}_{0.4}\text{MnO}_3$ compound. <i>Dalton Transactions</i> , 2015, 44, 17712-17719.	3.3	11
114	Structural and Magnetic Properties of $\text{Fe}_{55}\text{Co}_{45}$ Nanoparticles Synthesized by Different Methods. , 2015, , 331-335.		0
115	On Magnetocaloric Properties of $(\text{Pr}, \text{Dy})\text{Fe}_9$ Alloys. , 2015, , 291-295.		0
116	Nanocrystalline Sm-Fe Based Alloys: Structural and Magnetic Properties. , 2015, , 325-329.		0
117	Intrinsic and extrinsic magnetic properties of nanocrystalline $\text{Pr}_2(\text{Co}, \text{Fe})_7$. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 910-916.	1.8	17
118	Correlation between the nanocrystalline $\text{Sm}(\text{Fe}, \text{Mo})_{12}$ and its out of equilibrium phase $\text{Sm}(\text{Fe}, \text{Mo})_{10}$. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 363, 125-132.	2.3	16
119	Influence of Al substitution on magnetocaloric effect of $\text{Pr}_2\text{Fe}_{17-x}\text{Al}_x$. <i>Journal of Alloys and Compounds</i> , 2014, 588, 64-69.	5.5	41
120	Theoretical Work in Magnetocaloric Effect of $\text{LaFe}_{13-x}\text{Si}_x$ Compounds. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 1795-1800.	1.8	15
121	SiO_2 nanoparticles addition effect on microstructure and pinning properties in $\text{YBa}_2\text{Cu}_3\text{O}_y$. <i>Ceramics International</i> , 2014, 40, 4953-4962.	4.8	86
122	Magnetic random anisotropy model approach on nanocrystalline $\text{Fe}_{88}\text{Sm}_9\text{Mo}_3$ and $\text{Fe}_{88}\text{Sm}_9\text{Mo}_3\text{C}$ alloys. <i>Journal of Alloys and Compounds</i> , 2014, 584, 352-355.	5.5	6
123	Structural, magnetic, and electronic properties of high moment FeCo nanoparticles. <i>Journal of Alloys and Compounds</i> , 2014, 591, 58-64.	5.5	50
124	Superconducting properties of polycrystalline $\text{YBa}_2\text{Cu}_3\text{O}_7$ prepared by sintering of ball-milled precursor powder. <i>Ceramics International</i> , 2014, 40, 1461-1470.	4.8	72
125	Structural, Dielectric, and Magnetic Properties of NiZnCu Ferrites Synthesized by Reactive Spark Plasma Sintering Process. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	1
126	Magnetic properties and magnetocaloric effect in amorphous $\text{Co}_{35}\text{Er}_{65}$ ribbon. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 369, 92-95.	2.3	23

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127	Magnetotransport Properties and Electronic Structure of Ni ₈ Fe ₁₉ /W ₉ O ₁₀ Multilayers. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1911-1916.	1.8	1
128	Magnetic, electric and thermal properties of cobalt ferrite nanoparticles. Materials Research Bulletin, 2014, 59, 49-58.	5.2	116
129	High Magnetic Moment of FeCo Nanoparticles Produced in Polyol Medium. IEEE Transactions on Magnetics, 2014, 50, 1-5.	2.1	1
130	High magnetic moment CoFe nanoparticles. , 2014, , 15-22.		1
131	Structure and magnetocaloric effect of Pr ₂ Fe _{17-x} Al _x . , 2014, , 9-14.		0
132	Impact of carbon insertion on the microstructure and magnetic properties of nanocrystalline Pr ₂ Co ₇ alloys. Journal of Alloys and Compounds, 2013, 576, 415-423.	5.5	17
133	An integrated study of thermal treatment effects on the microstructure and magnetic properties of Zn-ferrite nanoparticles. Journal of Physics Condensed Matter, 2013, 25, 086001.	1.8	15
134	Magnetic properties and magneto-caloric effect in pseudo-binary intermetallic (Pr,Dy) ₂ Fe ₁₇ . Journal of Alloys and Compounds, 2013, 579, 156-159.	5.5	24
135	Study of the magnetic and electronic properties of nanocrystalline PrCo ₃ by neutron powder diffraction and density functional theory. Journal of Physics Condensed Matter, 2013, 25, 116001.	1.8	13
136	Thermal Evolution of Cation Distribution/Crystallite Size and Their Correlation with the Magnetic State of Yb-Substituted Zinc Ferrite Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 12358-12365.	3.1	27
137	Structural and magnetic properties of nanocrystalline PrCo _{3-x} Fe _x . Journal of Magnetism and Magnetic Materials, 2013, 340, 10-15.	2.3	13
138	Effect of nanowires SiO ₂ on superconducting properties of YBa ₂ Cu ₃ O _{7-d} bulks. , 2013, , .		4
139	Magnetic Hardening of Mechanically Alloyed Pr ₂ Co ₇ . Materials Research Society Symposia Proceedings, 2012, 1471, 12.	0.1	1
140	Structural and magnetic investigation on tetragonal R-Fe alloy with 1:12 stoichiometry. IOP Conference Series: Materials Science and Engineering, 2012, 28, 012020.	0.6	0
141	Magnetic and structural properties of nanocrystalline PrCo ₃ . IOP Conference Series: Materials Science and Engineering, 2012, 28, 012048.	0.6	5
142	Effect of annealing on structural and magnetic properties of Pr ₂ Co ₇ compounds. Journal of Alloys and Compounds, 2012, 522, 14-18.	5.5	40
143	Structural and magnetic properties of Pr ₂ Co ₇ powders. IOP Conference Series: Materials Science and Engineering, 2012, 28, 012014.	0.6	6
144	Effect of Fe substitution on structural and magnetic properties of Pr _{2-x} Co _{7-x} Fe _x compounds. EPJ Web of Conferences, 2012, 29, 00018.	0.3	4

#	ARTICLE	IF	CITATIONS
145	Nanostructured exchange coupled hard/soft composites: From the local magnetization profile to an extended 3d simple model. Journal of Magnetism and Magnetic Materials, 2012, 324, 1122-1128.	2.3	2
146	Magnetic and structural characterization of nanosized BaCo _x Zn _{2-x} Fe ₁₆ O ₂₇ hexaferrite in the vicinity of spin reorientation transition. Journal of Physics: Conference Series, 2011, 303, 012045.	0.4	4
147	X-ray and intrinsic magnetic properties of nanocrystalline Sm ₂ (Fe,M) ₁₇ (M=Si, Ga, Co, Cr, Zr or Mo). Intermetallics, 2011, 19, 997-1004.	3.9	30
148	Random anisotropy studies in amorphous Co ₄₀ Er ₆₀ B ribbons. Journal of Non-Crystalline Solids, 2011, 357, 28-30.	3.1	16
149	Spin-Wave Excitations in Evaporated Co/Pt Multilayers. Journal of Superconductivity and Novel Magnetism, 2011, 24, 1375-1379.	1.8	9
150	Magnetic and structural properties of nanocrystalline PrCo ₃ . Journal of Physics: Conference Series, 2011, 303, 012028.	0.4	9
151	A Study of Exchange Interactions in R(FeCo) ₁₁ TiC _y (R=Y or Pr) Compounds. Solid State Phenomena, 2011, 170, 223-226.	0.3	0
152	Thermal annealing effect on cation inversion and particle size of Zn-ferrite. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s156-s156.	0.3	0
153	Rare-earth iron-based intermetallic compounds and their carbides: Structure and magnetic behaviors. Journal of Magnetism and Magnetic Materials, 2010, 322, 224-229.	2.3	46
154	Structure and magnetic properties of nanocrystalline PrCo ₃ . Journal of Applied Physics, 2010, 107, .	2.5	44
155	Thermally activated dissipation and pinning mechanisms in a Bi ₂ 223 superconductor with the addition of nanosized ZrO ₂ particles. Superconductor Science and Technology, 2010, 23, 095013.	3.5	2
156	Structural and magnetic properties of magnetocaloric LaFe ₁₃ Si ₆ compounds synthesized by high energy ball-milling. Intermetallics, 2010, 18, 2301-2307.	3.9	93
157	Structure and magnetic properties of nanocrystalline Sm _{1-x} (Fe,Mo) _{5+2x} . Journal of Applied Physics, 2009, 105, .	2.5	33
158	Structure and magnetic properties of Sm ₂ Fe _{17-x} Mox compounds. Physics Procedia, 2009, 2, 719-722.	1.2	0
159	Magnetic properties of nanostructured Fe ₉₂ P ₈ powder mixture. Journal of Alloys and Compounds, 2009, 471, 24-27.	5.5	34
160	Nanocrystalline metastable 2/17 and 1/12 precursors: A promising class of hard magnetic materials. Journal of Applied Physics, 2009, 106, .	2.5	11
161	High coercivity in nanocrystalline Nd ₂₅ Fe ₄₀ Co ₂₀ Al ₁₀ B ₅ prepared by out-of-equilibrium techniques. Journal of Applied Physics, 2009, 105, 103905.	2.5	5
162	Out-of-equilibrium Sm ₂ Fe based phases. Hyperfine Interactions, 2008, 182, 113-123.	0.5	4

#	ARTICLE	IF	CITATIONS
163	Effect of the milling conditions on the formation of nanostructured Fe ^{1-x} Co powders. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1641-1646.	1.8	29
164	A ⁵⁷ Fe Mössbauer study of nanostructured Sm ₂ Fe ₁₇ xCo ₃ . Journal of Alloys and Compounds, 2008, 455, 35-41.	5.5	15
165	Some Magnetic Properties of YTiFe _{1-x} Si _x C Carbides. IEEE Transactions on Magnetics, 2008, 44, 4202-4205.	2.1	0
166	Out-of-equilibrium Sm-Fe based phases. , 2008, , 113-123.		1
167	Surface Preparation Effect on the Growth Mechanism of Co Nanoparticles on Porous Silicon Substrate. AIP Conference Proceedings, 2007, , .	0.4	1
168	Relationship between structure and intrinsic magnetic parameters of nanocrystalline Sm ₂ (Fe,Ga) ₁₇ C ₂ . Intermetallics, 2007, 15, 607-614.	3.9	4
169	Effect of carbonation on the structure and magnetic properties of YFe ₁₁ xCo _x Ti _y alloys. Journal of Magnetism and Magnetic Materials, 2007, 310, e623-e625.	2.3	1
170	Magnetocrystalline anisotropy of YFe ₁₁ xCo _x Ti _y . Journal of Magnetism and Magnetic Materials, 2007, 316, e116-e119.	2.3	5
171	Coercivity of nanocrystalline Nd-Fe-Co-Al-B alloys with low rare-earth content. Journal of Alloys and Compounds, 2006, 426, 22-25.	5.5	11
172	Synthesis of magnetite nanoparticles in the presence of aminoacids. Journal of Nanoparticle Research, 2006, 8, 1045-1051.	1.9	58
173	Combined effect of gallium and carbon on the structure and magnetic properties of nanocrystalline SmFe ₉ . Journal of Physics Condensed Matter, 2006, 18, 3845-3859.	1.8	9
174	Effect of nanocrystallization on the structure and the magnetic properties of Nd-Fe-Co-Al-B glassy alloy. Journal of Applied Physics, 2006, 99, 093906.	2.5	15
175	Out-of-equilibrium nanocrystalline R _{1-s} (Fe,M) _{5+2s} alloys (R = Sm, Pr; M = Co, Si, Ga). Physica Status Solidi (B): Basic Research, 2005, 242, 1561-1572.	1.5	3
176	High coercivity in nanocrystalline carbides Sm(Fe,Ga) ₉ C. Applied Physics Letters, 2005, 87, 192503.	3.3	38
177	Correlation between Sm ₂ (Fe,Ga) ₁₇ and its precursor Sm(Fe,Ga) ₉ . Journal of Applied Physics, 2005, 97, 013902.	2.5	42
178	Investigations on the Magnetic Properties of High-Coercivity Nd ₄₀ Fe ₃₀ Co ₁₅ Al ₁₀ B ₅ Bulk Amorphous Alloys. Materials Research Society Symposia Proceedings, 2005, 877, 1.	0.1	0
179	Microstructural characterisation of Fe-Cr-P-C powder mixture prepared by ball milling. Journal of Alloys and Compounds, 2005, 388, 41-48.	5.5	11
180	Hard magnetic Sm(Fe,Si) ₉ carbides: Structured and magnetic properties. Physical Review B, 2004, 69, .	3.2	46

#	ARTICLE	IF	CITATIONS
181	Structure and hyperfine parameter correlation in out-of-equilibrium $\text{Pr}(\text{Fe},\text{Co},\text{Ti})_{10}$. <i>Physical Review B</i> , 2004, 69, .	3.2	3
182	Physical Properties of Metastable Nanocrystalline Sm-Fe-Si Alloys. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 417, 47-55.	0.9	3
183	Structure and hyperfine parameters of nanocrystalline $\text{R}_1\text{Fe}_5\text{M}_2$ (Fe,M) $_{5+2s}$. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 1716-1718.	0.8	1
184	Structure and intrinsic magnetic properties of $\text{Sm}(\text{Fe},\text{Si})_9$ alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1243-E1244.	2.3	2
185	Magnetocrystalline anisotropy in $\text{PrFe}_{11}\text{Co}$ TiC. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E395-E397.	2.3	2
186	Route to high coercivity in $\text{Pr}_{40}\text{Fe}_{30}\text{Co}_{15}\text{Al}_{10}\text{B}_5$. <i>Physical Review B</i> , 2004, 70, .	3.2	40
187	Enhancement of coercivity in the nanocomposite $\text{R}_{40}\text{Fe}_{30}\text{Co}_{15}\text{Al}_{10}\text{B}_5$ ($\text{R} = \text{Nd}, \text{Pr}$). <i>Journal of Physics Condensed Matter</i> , 2003, 15, 5615-5620.	1.8	7
188	X-ray and Mössbauer studies of $\text{Sm}_2\text{Fe}_{17}\text{Cr}_x$ materials synthesized by mechanical alloying followed by an appropriate short annealing. <i>Journal of Alloys and Compounds</i> , 2003, 351, 24-30.	5.5	18
189	Structural and magnetic properties of $\text{Sm}_2\text{Fe}_{17}\text{Cr}_x\text{C}_2$ nanocrystalline carbides with $0 \leq x \leq 2$. <i>Journal of Alloys and Compounds</i> , 2003, 360, 14-20.	5.5	6
190	Crystallographic and magnetic study of metastable nanocrystalline $\text{Sm}(\text{Fe},\text{Si})_9$. <i>Physical Review B</i> , 2003, 68, .	3.2	54
191	Crystallographic and hyperfine parameters of $\text{PrTi}(\text{Fe},\text{Co})_{11}$ and their carbides. <i>Physical Review B</i> , 2002, 66, .	3.2	31
192	Structural and Mössbauer spectral study of the metastable phase $\text{Sm}(\text{Fe}, \text{Co}, \text{Ti})_{10}$. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 8111-8120.	1.8	12
193	Microstructure and magnetic properties of uncoupled $\text{Sm}_2\text{Co}_{17}\text{Cu}$ nanocomposites. <i>Applied Physics Letters</i> , 2002, 80, 1960-1962.	3.3	22
194	Magnetic properties of $\text{GdFe}_{11}\text{Si}_x\text{Ti}$. <i>Journal of Alloys and Compounds</i> , 2002, 345, 27-35.	5.5	9
195	Influence of Si substitution on the structure and magnetic properties of $\text{YFe}_{11}\text{Si}_x\text{Ti}$ ($x \in \{1/2, 2\}$). <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 242-245, 823-825.	2.3	6
196	Mössbauer study of $\text{Sm}_2\text{Fe}_{17}\text{Si}_x$. , 2002, , 75-78.		1
197	Effect of Si content on magnetic properties and intersublattice exchange interactions in $\text{GdFe}_{11}\text{Si}_x\text{Ti}$ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 226-230, 1171-1173.	2.3	5
198	Mössbauer spectra and magnetic properties of mechanically alloyed $\text{SmFe}_{11}\text{Co}_x\text{Ti}$. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 226-230, 1564-1566.	2.3	6

#	ARTICLE	IF	CITATIONS
199	Nanometric Architecture of SmCo ₅ Related Magnetic Properties. Materials Science Forum, 2001, 360-362, 513-518.	0.3	0
200	Nanometric Architecture of SmCo ₅ Related Magnetic Properties. Journal of Metastable and Nanocrystalline Materials, 2001, 10, 513-518.	0.1	0
201	Structure and hyperfine properties of Sm ₂ (Fe,Si) ₁₇ . Physical Review B, 2001, 65, .	3.2	41
202	Structure and magnetic properties of nanocrystalline Sm(Fe _{1-x} Cox) ₁₁ Ti(x~2). Physical Review B, 2001, 63, .	3.2	93
203	Emergence of order in nanocrystalline SmFe ₉ . Journal of Magnetism and Magnetic Materials, 2000, 210, 81-87.	2.3	57
204	A single integral expression for the magnetisation of a textured superparamagnetic system. Journal of Magnetism and Magnetic Materials, 1999, 203, 265-267.	2.3	11
205	Series expansions for the magnetisation of a solid superparamagnetic system of non-interacting particles with anisotropy. Journal of Magnetism and Magnetic Materials, 1999, 202, 554-564.	2.3	27
206	Magnetic Hardening of Mechanically Alloyed SmFe _{11-x} CoxTi. Materials Research Society Symposia Proceedings, 1999, 581, 259.	0.1	2
207	Structure and Magnetic Property Correlation in Nanocrystalline SmFe ₉ . Materials Research Society Symposia Proceedings, 1999, 581, 95.	0.1	0
208	Solute distribution in the ferromagnetic matrix of an M50 high-speed steel in annealed and quenched states. Journal of Physics Condensed Matter, 1997, 9, 4931-4942.	1.8	2
209	Nanocrystalline precipitates formed by aging of bcc disordered Fe-Ni-Mo alloys. Physical Review B, 1995, 51, 8830-8840.	3.2	15
210	Relaxation rate of fine magnetic particles. , 1992, , 21-26.		0
211	Relaxation time of fine magnetic particles in uniaxial symmetry. Physical Review B, 1992, 45, 7805-7815.	3.2	83
212	Effect of the applied field on the relaxation time of the magnetic moment of uniaxial small particles with easy axis in random position. Influence on Mössbauer spectra. Hyperfine Interactions, 1992, 70, 1109-1112.	0.5	6
213	New method of resolution of Brown's model for the relaxation time of fine magnetic particles: approximative formula and numerical calculations. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1565-1566.	2.3	5
214	Hyperfine parameters of amorphous Fe ₆₄ Cr ₁₆ B ₂₀ particles dispersed in an alumina matrix. Hyperfine Interactions, 1990, 55, 933-937.	0.5	6
215	A dynamic study of small interacting particles: superparamagnetic model and spin-glass laws. Journal of Physics C: Solid State Physics, 1988, 21, 2015-2034.	1.5	580
216	SUPERPARAMAGNETIC-PARAMAGNETIC TRANSITION IN SMALL PARTICLES. Journal De Physique Colloque, 1988, 49, C8-1825-C8-1826.	0.2	2

#	ARTICLE	IF	CITATIONS
217	Static and dynamic properties of small ferromagnetic particles: Comparison with spin-glass behaviour. <i>Journal of Magnetism and Magnetic Materials</i> , 1986, 54-57, 173-174.	2.3	26
218	Effect of M Substitution on Structural, Magnetic and Magnetocaloric Properties of $R_{2-x}Fe_{17-x}M_x$ ($R = Gd, Nd$; $M = Co, Cu$) Solid Solutions. , 0, , .		0
219	Magnetocaloric Properties of Nanostructured $Pr_{2-x}Dy_xFe_{17}$. , 0, , 105-109.		0
220	Influence of Si substitution on magnetic properties, random anisotropy, and magnetocaloric effect of nanocrystalline $Sm_2Fe_{17-x}Si_x$. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , 1.	2.2	2