

Benilde Costa

List of Publications by Year in descending order

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158
papers

1,901
citations

331670

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36
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161
all docs

161
docs citations

161
times ranked

2341
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#	ARTICLE	IF	CITATIONS
1	Investigation of the magnetocaloric effect and the critical behavior of the interacting superparamagnetic nanoparticles of $\text{La}_{0.8}\text{Sr}_{0.15}\text{Na}_{0.05}\text{MnO}_3$. Journal of Alloys and Compounds, 2022, 890, 161739.	5.5	10
2	Novel Kevlar® pulp-reinforced alumina-silica aerogel composites for thermal insulation at high temperature. Journal of Sol-Gel Science and Technology, 2022, 101, 87-102.	2.4	7
3	Investigation of temperature and frequency dependence of the dielectric properties of multiferroic $(\text{La}_{0.8}\text{Ca}_{0.2})_{0.4}\text{Bi}_{0.6}\text{FeO}_3$ nanoparticles for energy storage application. RSC Advances, 2022, 12, 6907-6917.	3.6	11
4	Synthesis and physico-chemical characterization of Bi-doped Cobalt ferrite nanoparticles: cytotoxic effects against breast and prostate cancer cell lines. European Physical Journal Plus, 2022, 137, .	2.6	4
5	Influence of Al^{3+} substituted cobalt nano-ferrite on structural, morphological and magnetic properties. Journal of Alloys and Compounds, 2021, 854, 156968.	5.5	13
6	Assessment of the critical behavior in the multiferroic $\text{Bi}_{0.8}\text{Ba}_{0.1}\text{Er}_{0.1}\text{Fe}_{0.96}\text{Cr}_{0.02}\text{Co}_{0.02}\text{O}_3$ material, multi-substitution effect on magnetic and Mössbauer properties. Journal of Magnetism and Magnetic Materials, 2021, 524, 167640.	2.3	4
7	Synthesis and investigation of oxygen deficiency effect on electric properties of $\text{La}_{0.75}\text{Ba}_{0.10}\text{Sr}_{0.15}\text{Fe}_{2.875-x}\text{O}_7$ ($x=0.00, 0.125$ and 0.25) ferrites. Journal of Materials Science: Materials in Electronics, 2021, 32, 13000-13013.	2.2	7
8	Electrical conductivity and dielectric properties of Sr doped M-type barium hexaferrite $\text{BaFe}_{12}\text{O}_{19}$. RSC Advances, 2021, 11, 1531-1542.	3.6	37
9	High electrical conductivity at room temperature of MnCo_2O_4 cobaltite spinel prepared by sol-gel method. Journal of Materials Science: Materials in Electronics, 2021, 32, 1221-1232.	2.2	12
10	Assessment of nanostructure, optical, dielectric and modulus response by Bi substitution in $\text{La}_{1-x}\text{Bi}_x\text{Ni}_0.5\text{Ti}_0.5\text{O}_3$ ($x=0.0$ to 0.2) system. European Physical Journal Plus, 2021, 136, 1.	2.6	2
11	Synthesis and study of the structural and dielectric properties of $\text{La}_{0.67}\text{Ca}_{0.2}\text{Ba}_{0.13}\text{Fe}_{1-x}\text{Mn}_x\text{O}_3$ ferrites ($x=0, 0.03$ and 0.06). Journal of Materials Science: Materials in Electronics, 2021, 32, 7926-7942.	2.2	6
12	Study of structural, morphological, Mössbauer and dielectric properties of NiFeCoO_4 prepared by a sol gel method. Journal of Sol-Gel Science and Technology, 2021, 98, 364-375.	2.4	8
13	Recycling of mining waste in the synthesis of magnetic nanomaterials for removal of nitrophenol and polycyclic aromatic hydrocarbons. Chemical Physics Letters, 2021, 771, 138482.	2.6	8
14	^{57}Fe Mössbauer Analysis of Meteorites and Tektites. Minerals (Basel, Switzerland), 2021, 11, 628.	2.0	2
15	Specific features of structural, magnetic, Raman and Mössbauer: Properties of $\text{La}_{0.57}\text{Nd}_{0.10}\text{Sr}_{0.18}\text{Ag}_{0.15}\text{FeO}_3$ ferrite nanoparticles. Journal of Molecular Structure, 2021, 1238, 130344.	3.6	1
16	Investigation of Cr substitution effect on the evolution of $\text{La}_{0.67}\text{Ca}_{0.2}\text{Ba}_{0.13}\text{Fe}_{1-x}\text{Cr}_x\text{O}_3$ ($x=0$ and 0.03) electrical properties under frequency and temperature variation. European Physical Journal Plus, 2021, 136, 1.	2.6	6
17	Analysis of the electrical transport, conductivity, and dielectric relaxation behavior of $\text{La}_{0.75}\text{Ba}_{0.10}\text{Sr}_{0.15}\text{Fe}_{2.875-x}\text{O}_7$ ($x=0.375$ and 0.50) brownmillerite oxides. Journal of Materials Science: Materials in Electronics, 2021, 32, 21897-21908.	2.2	0
18	Structural, dielectric relaxation and magnetic features of the $(\text{La}_{0.8}\text{Ca}_{0.2})_{0.9}\text{Bi}_{0.1}\text{Fe}_{1-y}\text{Ti}_y\text{O}_3$ ($y=0.0$) Tj ET Og 0 0 0 rg BT / Overlo	5.5	7

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19	Study of the influence of 2.5% Mg ²⁺ insertion in the B-site of La _{0.8} Ca _{0.1} Pb _{0.1} FeO ₃ on its structural, electrical and dielectric properties. RSC Advances, 2021, 11, 33070-33080.	3.6	0
20	Structural, morphological, Raman, dielectric and electrical properties of La _{1-x} Ba _x BiFeO ₃ (0.00 ≤ x ≤ 0.30) perovskites. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1007-1012.	1.8	3
21	Design and development a novel uranyl sensor based on FePt/ZnIn ₂ S ₄ core-shell semiconductor nanostructures. Arabian Journal of Chemistry, 2020, 13, 1429-1439.	4.9	5
22	Synthesis, Structural Studies, and Magnetic Properties of a New Mixed-Valence Diphosphate: Zn ₂ +5Fe ₃ +2(P ₂ O ₇) ₄ . Journal of Superconductivity and Novel Magnetism, 2020, 33, 1007-1012.	1.8	3
23	Effect of controlled crystallization on polaronic transport in phosphate-based glass-ceramics. International Journal of Applied Glass Science, 2020, 11, 97-111.	2.0	12
24	Influence of oxygen deficiency on optical and dielectric properties of La _{0.75} Ba _{0.10} Sr _{0.15} FeO _{2.875-δ} compounds. Chemical Physics Letters, 2020, 741, 137106.	2.6	3
25	Study of the magneto transport properties at room temperature in lacunary ceramics La _{0.8-x} Na _{0.2-x} MnO ₃ in site A. Journal of Superconductivity and Novel Magnetism, 2020, 33, 313-322.	1.8	0
26	Structural, electric and dielectric properties of Ni _{0.5} Zn _{0.5} FeCoO ₄ ferrite prepared by sol-gel. Journal of Magnetism and Magnetic Materials, 2020, 499, 166243.	2.3	21
27	Structural, optical and dielectric properties of Cu _{1.5} Mn _{1.5} O ₄ spinel nanoparticles. RSC Advances, 2020, 10, 42542-42556.	3.6	35
28	Effect of annealing temperature on structural, morphological and dielectric properties of La _{0.8} Ba _{0.1} Ce _{0.1} FeO ₃ perovskite. Journal of Materials Science: Materials in Electronics, 2020, 31, 16220-16234.	2.2	16
29	Synthesis and study of structural, optical, and electrical properties of nontoxic and earth-abundant Na ₂ ZnSnS ₄ material. Journal of Materials Science: Materials in Electronics, 2020, 31, 18858-18869.	2.2	7
30	Supercritically dried superparamagnetic mesoporous silica nanoparticles for cancer theranostics. Materials Science and Engineering C, 2020, 115, 111124.	7.3	28
31	Magneto-Transport Properties of the Ag Doping Sr Site in La _{0.57} Nd _{0.1} Sr _{0.33-x} Ag _x MnO ₃ (0.00 and 0.15) Manganites. Journal of Low Temperature Physics, 2020, 200, 131-141.	1.4	10
32	Assessment of structural, optical, magnetic, magnetocaloric properties and critical phenomena of La _{0.57} Nd _{0.1} Sr _{0.18} Ag _{0.15} MnO ₃ system at room temperature. Journal of Materials Science: Materials in Electronics, 2020, 31, 11983-11996.	2.2	5
33	Airborne environmental fine particles induce intense inflammatory response regardless of the absence of heavy metal elements. Ecotoxicology and Environmental Safety, 2020, 195, 110500.	6.0	4
34	Structural and Magnetic Studies of Annealed Iron Oxide Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2020, 33, 3249-3261.	1.8	14
35	Structural study and large magnetocaloric entropy change at room temperature of La _{1-x} MnO ₃ compounds. RSC Advances, 2020, 10, 8352-8363.	3.6	14
36	North West Africa stony meteorite: a case study. Hyperfine Interactions, 2020, 241, 1.	0.5	1

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37	Effect of synthesis route on structural, morphological, Raman, dielectric, and electric properties of La _{0.8} Ba _{0.1} Bi _{0.1} FeO ₃ . Journal of Materials Science: Materials in Electronics, 2020, 31, 3197-3214.	2.2	11
38	Effect of Bi-substitution into the A-site of multiferroic La _{0.8} Ca _{0.2} FeO ₃ on structural, electrical and dielectric properties. RSC Advances, 2020, 10, 16132-16146.	3.6	16
39	Effect of the annealing temperature and of Bi substitution on the structural and magnetic behaviors of double-doping (Bi/La, Ca) (La _{0.8} Ca _{0.2}) _{1-x} Bi _x FeO ₃ compounds. New Journal of Chemistry, 2020, 44, 9813-9821.	2.8	6
40	Magnetic Studies on New Mixed-Valence Phosphates Zn ₂ +Fe ₂ + $\{P_2O_7\}_2$ and Zn. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1377-1382.	1.8	2
41	Investigating the structural, morphological, dielectric and electric properties of the multiferroic (La _{0.8} Ca _{0.2}) _{0.9} Bi _{0.1} FeO ₃ material. Chemical Physics Letters, 2019, 731, 136588.	2.6	11
42	Biocompatible and high-magnetically responsive iron oxide nanoparticles for protein loading. Journal of Physics and Chemistry of Solids, 2019, 134, 273-285.	4.0	12
43	Synthesis, structure and magnetic properties of multipod-shaped cobalt ferrite nanocrystals. New Journal of Chemistry, 2019, 43, 10259-10269.	2.8	9
44	Disorder of Fe(2)O ₅ bipyramids and spin-phonon coupling in SrFe ₂ O ₁₉ nanoparticles. Ceramics International, 2019, 45, 13571-13574.	4.8	16
45	Structural, Morphological, Raman, and Mössbauer Studies on (La _{0.8} Ca _{0.2}) _{1-x} Bi _x FeO ₃ (x = 0.0, 0.1, and 1). Journal of Physics and Chemistry of Solids, 2019, 134, 1078-1084.	1.8	9
46	Influence of Non-magnetic Ti ⁴⁺ Ion Doping at Mn Site on Structural, Magnetic, and Magnetocaloric Properties of La _{0.5} Pr _{0.2} Sr _{0.3} Mn _{1-x} Ti _x O ₃ Manganites (x = 0.0 and 0.1). Journal of Superconductivity and Novel Magnetism, 2019, 32, 1653-1662.	1.8	2
47	Structural, morphological, Raman and ac electrical properties of the multiferroic sol-gel made Bi _{0.8} Er _{0.1} Ba _{0.1} Fe _{0.96} Cr _{0.02} Co _{0.02} O ₃ material. Journal of Alloys and Compounds, 2019, 775, 304-315.	5.5	23
48	Synthesis and physicochemical characterizations of a new valence-mixed pyrophosphate: Cu _{0.5} Zn _{0.5} Fe ₂ (P ₂ O ₇) ₂ . Journal of Physics and Chemistry of Solids, 2018, 119, 122-125.	4.0	5
49	Effects of oxygen deficiency on the transport and dielectric properties of NdSrNbO. Journal of Physics and Chemistry of Solids, 2018, 117, 1-12.	4.0	33
50	Novel synthesis and application of FePt/CuInS ₂ magneto-optical core-shell nanostructures in copper ions sensing. Sensors and Actuators B: Chemical, 2018, 254, 448-456.	7.8	4
51	Synthesis and physicochemical characterization of a new mixed-valence Iron(III)-Zinc(II) diphosphate: Zn ₂ +Fe ₃ +2(P ₂ O ₇) ₂ . Materials Chemistry and Physics, 2018, 216, 22-27.	4.0	5
52	Development and characterization of iron-pectin beads as a novel system for iron delivery to intestinal cells. Colloids and Surfaces B: Biointerfaces, 2018, 170, 538-543.	5.0	21
53	Development of a biocompatible magnetic nanofluid by incorporating SPIONs in Amazonian oils. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 172, 135-146.	3.9	18
54	Highly fluorescent and superparamagnetic nanosystem for biomedical applications. Nanotechnology, 2017, 28, 285704.	2.6	12

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55	Superparamagnetic core-shell nanocomplexes doped with Yb 3+ : Er 3+ /Ho 3+ rare-earths for upconversion fluorescence. <i>Materials and Design</i> , 2017, 130, 263-274.	7.0	11
56	Mechanosynthesis of bcc alloys from Fe ₅₀ ~y/2Co ₅₀ ~y/2Sn y mixtures (2 ~y ~ 33) and B2 ordering by annealing at modest temperatures. <i>Hyperfine Interactions</i> , 2017, 238, 1.	0.5	0
57	Klimt artwork: red-pigment material investigation by backscattering Fe-57 M~ssbauer spectroscopy, SEM and p-XRF. <i>Science and Technology of Archaeological Research</i> , 2017, 3, 450-455.	2.4	2
58	M~ssbauer investigation of novel pentadentate schiff base complexes. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.5	2
59	57Fe M~ssbauer, SEM/EDX, p-XRF and ~4-XRF studies on a Dutch painting. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.5	4
60	M~ssbauer and XRD studies of Roman amphorae buried in the sea for two millennia. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.5	2
61	Klimt artwork (Part II): material investigation by backscattering Fe-57 M~ssbauer- and Raman-spectroscopy, SEM and p-XRF. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.5	2
62	Design of multifunctional magnetic hybrid silica aerogels with improved properties. <i>Microporous and Mesoporous Materials</i> , 2016, 232, 227-237.	4.4	16
63	M~ssbauer spectroscopy and X-ray fluorescence studies on sediments from the methanic zone of the Helgoland mud area, North Sea. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.5	0
64	B2 long-range order in mechanically alloyed Fe _{53.3} ~0.6x Co _{46.7} ~0.4x Sn x (2~x~26) annealed at moderate temperatures. <i>Journal of Materials Science</i> , 2016, 51, 5775-5790.	3.7	8
65	Effect of Fe-doping on the structure and magnetoelectric properties of (Ba _{0.85} Ca _{0.15})(Ti _{0.9} Zr _{0.1})O ₃ synthesized by a chemical route. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1066-1079.	5.5	60
66	Distinct microbial populations are tightly linked to the profile of dissolved iron in the methanic sediments of the Helgoland mud area, North Sea. <i>Frontiers in Microbiology</i> , 2015, 06, 365.	3.5	72
67	Nanostructured Titania Photoanodes for Dye Solar Cells. <i>Materials Today: Proceedings</i> , 2015, 2, 141-146.	1.8	3
68	Gelatin-assisted sol-gel derived TiO ₂ microspheres for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4945-4950.	7.1	19
69	Debye temperature of nanocrystalline Fe~Cr alloys obtained by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2015, 649, 1246-1252.	5.5	5
70	Controlled phase formation of nanocrystalline iron oxides/hydroxides in solution ~ An insight on the phase transformation mechanisms. <i>Materials Chemistry and Physics</i> , 2015, 163, 88-98.	4.0	22
71	Klimt artwork: material investigation by backscattering Fe-57 M~ssbauer and Raman spectroscopy. <i>Hyperfine Interactions</i> , 2014, 226, 621-627.	0.5	3
72	Backscattering M~ssbauer MIMOS II and XRF studies on tektites from different strewn fields. <i>Hyperfine Interactions</i> , 2014, 226, 613-619.	0.5	3

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73	⁵⁷ Fe Mössbauer spectroscopy studies of Tektites from Khon Kaen, Ne Thailand. <i>Hyperfine Interactions</i> , 2014, 224, 51-56.	0.5	5
74	Formation stages of bcc (Fe ₄₄ Co ₄₄)Sn ₁₂ extended solid solution by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2014, 615, S559-S563.	5.5	8
75	The influence of the heat treatment temperature in the magnetic characteristics of a SiO ₂ -Li ₂ O-Fe ₂ O ₃ glass prepared by sol-gel. <i>Journal of Non-Crystalline Solids</i> , 2014, 391, 32-38.	3.1	2
76	Iron(III) Complexes on a Dendrimeric Basis and Various Amine Core Investigated by Mössbauer Spectroscopy. <i>Journal of Physics: Conference Series</i> , 2014, 534, 012003.	0.4	0
77	Kinetics of β' -phase formation in equiatomic cold-rolled Fe-V alloys. <i>Materials Chemistry and Physics</i> , 2013, 143, 19-25.	4.0	10
78	Electric Properties of Single-Phased BiFeO ₃ Ceramics. <i>Ferroelectrics</i> , 2013, 452, 57-62.	0.6	0
79	Mössbauer studies of a martensitic transformation and of cryogenic treatments of a D2 tool steel. <i>Hyperfine Interactions</i> , 2013, 219, 135-139.	0.5	0
80	Perovskite xBiInO ₃ -(1-x)PbTiO ₃ Crystals. <i>Ferroelectrics</i> , 2013, 457, 39-43.	0.6	0
81	Development of High Curie Temperature Ferroelectric xBi(Sc _{0.5} ,Yb _{0.5})O ₃ -(1-x)PbTiO ₃ Single Crystals. <i>Ferroelectrics</i> , 2013, 447, 33-39.	0.6	1
82	Cellulose/iron oxide hybrids as multifunctional pigments in thermoplastic starch based materials. <i>Cellulose</i> , 2013, 20, 861-871.	4.9	6
83	Mechanically Driven Dissolution of Sn in Near-Equiatomic Bcc FeCo. <i>Solid State Phenomena</i> , 2012, 194, 187-193.	0.3	3
84	Mechanosynthesis of supersaturated solid solutions of Sn in near-equiatomic bcc FeCo. <i>Journal of Alloys and Compounds</i> , 2012, 536, S31-S34.	5.5	7
85	Size-controlled synthesis of superparamagnetic iron oxide nanoparticles and their surface coating by gold for biomedical applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3997-4005.	2.3	106
86	X-ray compositional microanalysis and diffraction studies of Haltern 70 amphorae sherds. <i>X-Ray Spectrometry</i> , 2012, 41, 69-74.	1.4	5
87	Sol-gel synthesis and washing of amorphous γ -FeO(OH) xerogels. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012, 43, 427-434.	0.9	4
88	The effect of composition and temperature on the amount and type of nanoferrite particles inserted in Fe ₂ O ₃ -ZnO-MgO-SiO ₂ glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 3722-3725.	3.1	4
89	Order-disorder phenomena from X-ray diffraction in FeCo alloys annealed and ground at high energy. <i>Powder Diffraction</i> , 2011, 26, 267-272.	0.2	7
90	Characterization of iron(III) oxide/hydroxide nanostructured materials produced by sol-gel technology based on the Fe(NO ₃) ₃ ·9H ₂ O-C ₂ H ₅ OH-CH ₃ CH ₂ O system. <i>Materials Chemistry and Physics</i> , 2011, 130, 548-560.	4.0	15

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91	Mössbauer studies of Haltern 70 amphorae from Castro do Vieito, North of Portugal, and of amphora sherds from kilns in the Roman provinces Hispania Baetica and Lusitania. <i>Hyperfine Interactions</i> , 2011, 202, 81-87.	0.5	7
92	Comparison of disorder induced by annealing and quench and by ball-milling in B2 FeCo. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 3087-3090.	0.8	3
93	Structural, ferroelectric and magnetic properties of $\text{Bi}_{0.85}\text{Sm}_{0.15}\text{FeO}_3$ perovskite. <i>Crystal Research and Technology</i> , 2011, 46, 238-242.	1.3	43
94	BiFeO_3 ceramic matrix with Bi_2O_3 or PbO added: Mössbauer, Raman and dielectric spectroscopy studies. <i>Physica B: Condensed Matter</i> , 2011, 406, 2532-2539.	2.7	31
95	Sol-gel synthesis of iron(III) oxyhydroxide nanostructured monoliths using $\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}/\text{CH}_3\text{CH}_2\text{OH}/\text{NH}_4\text{OH}$ ternary system. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 678-684.	4.0	14
96	Mössbauer studies of Haltern 70 amphorae from Castro do Vieito, North of Portugal, and of amphora sherds from kilns in the Roman provinces Hispania Baetica and Lusitania. , 2011, , 81-87.		0
97	Ball Milling of an Equiatomic $\text{Fe}-\text{V}$ Alloy in Vacuum. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2850-2852.	0.9	0
98	Magnetic study of amorphization of ball-milled FeCr alloys. <i>Journal of Physics: Conference Series</i> , 2010, 200, 082017.	0.4	0
99	Mössbauer study of Haltern 70 amphora sherds from Castro do Vieito, North of Portugal. <i>Journal of Physics: Conference Series</i> , 2010, 217, 012060.	0.4	3
100	Long ball-milling of bcc-FeCr at different injected powers: Amorphization and partial crystallization. <i>Journal of Physics: Conference Series</i> , 2010, 217, 012103.	0.4	0
101	Long-time ball milling of FeCr. <i>International Journal of Nanomanufacturing</i> , 2010, 5, 10.	0.3	0
102	X-Ray Diffraction and Mössbauer Studies of Sigma-FeV Alloys Ball-Milled in Vacuum. <i>Materials Science Forum</i> , 2010, 636-637, 941-945.	0.3	0
103	Rhombohedral-to-orthorhombic transition and multiferroic properties of Dy-substituted BiFeO_3 . <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	86
104	On the Debye temperature in sigma-phase Fe-V alloys. <i>Intermetallics</i> , 2010, 18, 1695-1698.	3.9	11
105	Anomalous behaviour of the Debye temperature in Fe-rich Fe-Cr alloys. <i>Journal of Alloys and Compounds</i> , 2010, 492, L1-L4.	5.5	6
106	Debye temperature of disordered bcc-Fe-Cr alloys. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 055402.	1.8	14
107	Study of a sigma-phase formation in an equiatomic Fe-V alloy. <i>Journal of Physics: Conference Series</i> , 2010, 217, 012077.	0.4	3
108	Effect of activating flux and shielding gas on microstructure of TIG welds in austenitic stainless steel. <i>Science and Technology of Welding and Joining</i> , 2009, 14, 315-320.	3.1	14

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109	Delayed electron capture and formation in ZnSe. <i>Physica B: Condensed Matter</i> , 2009, 404, 888-891.	2.7	9
110	Magnetic ordering above room temperature in the sigma-phase of Fe ₆₆ V ₃₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 2160-2165.	2.3	31
111	Hydrogen effect on the sigma-phase in Fe _{53.8} Cr _{46.2} . <i>Journal of Alloys and Compounds</i> , 2009, 467, 182-186.	5.5	3
112	Ball-milling in vacuum of σ and β phases of near-equiatomic FeCr alloys. <i>Journal of Alloys and Compounds</i> , 2009, 483, 70-73.	5.5	3
113	Superferromagnetism in mechanically alloyed fcc Fe ₂₃ Cu ₇₇ with bimodal cluster size distribution. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 046003.	1.8	4
114	Biofunctionalized magnetic hydrogel nanospheres of magnetite and κ -carrageenan. <i>Nanotechnology</i> , 2009, 20, 355602.	2.6	45
115	Partial amorphization of an σ -FeCr alloy by ball-milling. <i>Hyperfine Interactions</i> , 2008, 183, 109-115.	0.5	5
116	Evolution of a FeV sigma phase ball-milled in a mixture of argon and air. <i>Hyperfine Interactions</i> , 2008, 183, 67-73.	0.5	7
117	Synthesis, structure and magnetic behaviour of mixed metal leucophospite. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1330-1336.	2.9	5
118	Magnetic and transport studies of β -phase Fe ₅₀ V ₅₀ alloys with different thermal history. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5287-5289.	3.1	1
119	The effect of oxygen on ball milling of a near-equiatomic FeV sigma phase. <i>Journal of Applied Physics</i> , 2008, 104, 084315.	2.5	5
120	Structural analysis and ⁵⁷ Fe Mössbauer spectrometry of Zr ₆ FeSn ₂ and related compounds. <i>Journal of Alloys and Compounds</i> , 2007, 438, 88-91.	5.5	4
121	Mössbauer spectrometry of near equiatomic Fe-Cr alloys: Influence of preparation method. <i>Journal of Alloys and Compounds</i> , 2007, 434-435, 584-586.	5.5	14
122	Mössbauer spectrometry of near equiatomic Fe-Cr alloys: Phase separation at high temperature?. <i>Journal of Alloys and Compounds</i> , 2007, 434-435, 587-589.	5.5	4
123	In Situ Synthesis of Magnetite Nanoparticles in Carrageenan Gels. <i>Biomacromolecules</i> , 2007, 8, 2350-2357.	5.4	107
124	X-ray diffraction and Mössbauer spectrometry studies of molecular iron compounds. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 580, 408-411.	1.6	0
125	Fe ₂ O ₃ /aluminum thermite reaction intermediate and final products characterization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 465, 199-210.	5.6	110
126	Mössbauer spectroscopy and X-ray diffraction studies of ball-milling-induced transformations of a near-equiatomic FeV sigma phase: Influence of oxygen. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 580, 404-407.	1.6	2

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127	Laser selectivity on cleaning museologic iron artefacts. , 2006, , .		2
128	Mechanically induced phase transformations of the sigma phase of nanograined and of coarse-grained near-equiatomic FeCr alloys. Journal of Alloys and Compounds, 2006, 424, 131-140.	5.5	23
129	Investigation of a Cr _{42.2} Fe _{57.8} alloy prepared by mechanical alloying. Journal of Physics Condensed Matter, 2006, 18, 3263-3276.	1.8	5
130	The Debye temperature of quasi-equi-atomic $\hat{\pm}$ -Fe $\hat{\epsilon}$ Cr alloys. Journal of Physics Condensed Matter, 2006, 18, 10899-10903.	1.8	6
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