

Orestis Kalogirou

List of Publications by Year in descending order

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104
papers

1,881
citations

279798

23
h-index

289244

40
g-index

106
all docs

106
docs citations

106
times ranked

2257
citing authors

#	ARTICLE	IF	CITATIONS
1	Existence range, structural and magnetic properties of Nd ₃ Fe _{27.5} Ti _{1.5} â ^γ Moy and Nd ₃ Fe _{27.5} Ti _{1.5} â ^γ MoyNx (0.0 ≤ y ≤ 1.5). Journal of Magnetism and Magnetic Materials, 1995, 146, 335-345.	2.3	159
2	Arrangement at the nanoscale: Effect on magnetic particle hyperthermia. Scientific Reports, 2016, 6, 37934.	3.3	131
3	High coercivity cobalt carbide nanoparticles processed via polyol reaction: a new permanent magnet material. Journal Physics D: Applied Physics, 2010, 43, 165003.	2.8	107
4	In vitro application of Fe/MgO nanoparticles as magnetically mediated hyperthermia agents for cancer treatment. Journal of Magnetism and Magnetic Materials, 2011, 323, 775-780.	2.3	98
5	Magnetic Graphene Oxide: Effect of Preparation Route on Reactive Black 5 Adsorption. Materials, 2013, 6, 1360-1376.	2.9	94
6	Reducing the inversion degree of MnFe ₂ O ₄ nanoparticles through synthesis to enhance magnetization: evaluation of their ¹ H NMR relaxation and heating efficiency. Dalton Transactions, 2014, 43, 12754-12765.	3.3	86
7	In vitro application of Mn-ferrite nanoparticles as novel magnetic hyperthermia agents. Journal of Materials Chemistry B, 2014, 2, 8390-8398.	5.8	66
8	Controlled synthesis and phase characterization of Fe-based nanoparticles obtained by thermal decomposition. Journal of Magnetism and Magnetic Materials, 2007, 316, e1-e4.	2.3	64
9	Controlling the crystal structure of Ni nanoparticles by the use of alkylamines. Journal of Magnetism and Magnetic Materials, 2009, 321, 2723-2728.	2.3	55
10	Morphology influence on nanoscale magnetism of Co nanoparticles: Experimental and theoretical aspects of exchange bias. Physical Review B, 2011, 84, .	3.2	44
11	Unveiling the Physicochemical Features of CoFe ₂ O ₄ Nanoparticles Synthesized via a Variant Hydrothermal Method: NMR Relaxometric Properties. Journal of Physical Chemistry C, 2015, 119, 8336-8348.	3.1	41
12	Processing of magnetically anisotropic MnBi particles by surfactant assisted ball milling. Journal of Magnetism and Magnetic Materials, 2017, 426, 691-697.	2.3	39
13	Structure and magnetic properties of RCo ₇ â ^x Mnx alloys (R=Sm, Gd; x=0.1â€“1.4). Journal of Magnetism and Magnetic Materials, 2002, 242-245, 844-846.	2.3	37
14	Evolution of Nd ₂ Fe ₁₄ B nanoparticles magnetism during surfactant-assisted ball-milling. Intermetallics, 2011, 19, 589-595.	3.9	37
15	Biogenic selenium nanoparticles produced by <i>Lactobacillus casei</i> ATCC 393 inhibit colon cancer cell growth <i>in vitro</i> and <i>in vivo</i> . Nanoscale Advances, 2021, 3, 2516-2528.	4.6	36
16	Site occupancy and lattice changes on nitrogenation in Nd ₃ Fe ₂₉ â ^x TixNy. Journal of Applied Physics, 1996, 80, 2955-2959.	2.5	34
17	Synthesis and magnetic properties of R ₃ (Fe,Ti) ₂₉ and R ₃ (Fe,Ti) ₂₉ Nx (R = Ce,Pr,Gd). Journal of Magnetism and Magnetic Materials, 1995, 147, L7-L10.	2.3	30
18	Structural and intrinsic magnetic material parameters of Pr ₃ (Fe,Ti) ₂₉ and Pr ₃ (Fe,Ti) ₂₉ Nx. Journal of Magnetism and Magnetic Materials, 1996, 153, 75-85.	2.3	27

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19	Magnetostrictive properties of amorphous and partially crystalline TbDyFe thin films. Journal of Applied Physics, 1997, 81, 5696-5698.	2.5	26
20	On the local coordination of Fe in Fe ₂ O ₃ -glass and Fe ₂ O ₃ -glass ceramic systems containing Pb, Na and Si. Journal of Non-Crystalline Solids, 2007, 353, 2717-2733.	3.1	26
21	Magnetic phase transitions and magnetocrystalline anisotropy in Nd ₃ (Fe,Ti) ₂₉ and Nd ₃ (Fe,Ti) ₂₉ N ₄ . Solid State Communications, 1996, 97, 471-475.	1.9	25
22	The role of synthetic parameters in the magnetic behavior of relative large hcp Ni nanoparticles. Journal of Nanoparticle Research, 2011, 13, 1897-1908.	1.9	24
23	Synthesis and characterization of inverse spinel LiNiVO ₄ and LiCoVO ₄ with impedance spectroscopy. Solid State Ionics, 2008, 179, 1980-1985.	2.7	23
24	Effect of low frequency magnetic fields on the growth of MNP-treated HT29 colon cancer cells. Nanotechnology, 2018, 29, 175101.	2.6	23
25	Structural and magnetic properties of Nd ₃ (Fe _{1-x} Co _x) ₂₇ Ti _{1.3} (0<x<0.4) alloys. Journal of Alloys and Compounds, 2001, 325, 59-66.	5.5	22
26	Effects of Co substitution on structural and magnetic properties of R ₃ (Fe _{1-x} Co _x) ₂₉ Y _y (R=Tb, Dy). Journal of Magnetism and Magnetic Materials, 2002, 247, 34-41.	2.3	22
27	Tunable AC Magnetic Hyperthermia Efficiency of Ni Ferrite Nanoparticles. IEEE Transactions on Magnetics, 2014, 50, 1-7.	2.1	21
28	Rapid Millifluidic Synthesis of Stable High Magnetic Moment Fe _x C _y Nanoparticles for Hyperthermia. ACS Applied Materials & Interfaces, 2020, 12, 28520-28531.	8.0	20
29	Structural and magnetic features of heterogeneously nucleated Fe-oxide nanoparticles. Journal of Magnetism and Magnetic Materials, 2008, 320, 1631-1638.	2.3	19
30	Carbon-encapsulated cobalt nanoparticles: synthesis, properties, and magnetic particle hyperthermia efficiency. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	18
31	The Effect of Polyol Composition on the Structural and Magnetic Properties of Magnetite Nanoparticles for Magnetic Particle Hyperthermia. Materials, 2019, 12, 2663.	2.9	17
32	Mitigation of magnetic particle hyperthermia side effects by magnetic field controls. International Journal of Hyperthermia, 2021, 38, 511-522.	2.5	17
33	Ab initio crystal structure solution of the novel intermetallic compound Nd ₃ (Fe,Ti) ₂₉ . Journal of Alloys and Compounds, 1996, 234, 62-66.	5.5	16
34	Impedance spectroscopy study of LiCuVO ₄ . Solid State Ionics, 2008, 179, 936-940.	2.7	16
35	Synthesis and magnetic properties of PrFe ₁₂ xMox and PrFe ₁₂ xMoxNy(0.5<x<1.0,y<1). Journal of Applied Physics, 1994, 76, 6722-6724.	2.5	15
36	CoFe _{2-x} RExO ₄ (RE=Dy, Yb, Gd) magnetic nanoparticles for biomedical applications. Physica B: Condensed Matter, 2021, 606, 412849.	2.7	15

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37	Synthesis and magnetic properties of rare earth-iron-chromium phases and their nitrides. Journal of Applied Physics, 1996, 79, 5539.	2.5	12
38	OXIDATION PROCESS OF Fe NANOPARTICLES. Modern Physics Letters B, 2007, 21, 1143-1151.	1.9	12
39	A novel strategy combining magnetic particle hyperthermia pulses with enhanced performance binary ferrite carriers for effective in vitro manipulation of primary human osteogenic sarcoma cells. International Journal of Hyperthermia, 2016, 32, 778-785.	2.5	12
40	Synthesis and magnetic properties of Fe^{3+} -ferrites stabilized by Co^{2+} and Ni^{2+} . Materials Research Bulletin, 1989, 24, 1399-1404.	5.2	11
41	Synthesis and Thermal Stability of Polycrystalline New Divalent Fe^{3+} - and Fe^{2+} -Ferrites Prepared by Ion Exchange. Journal of Solid State Chemistry, 1993, 102, 318-331.	2.9	11
42	Effect of humidity on the conduction processes of Li_3VO_4 . Journal of Materials Science, 2009, 44, 4987-4992.	3.7	11
43	Tailoring the morphology of $\text{Co}_x\text{Pt}_{1-x}$ magnetic nanostructures. Journal of Magnetism and Magnetic Materials, 2009, 321, 3120-3125.	2.3	11
44	Structural and magnetic properties of a novel compound with $\text{Y}_3(\text{Fe}, \text{V})_{29}$ stoichiometry and disordered CaCu_5 -type structure. Journal of Alloys and Compounds, 1998, 270, 21-27.	5.5	10
45	Structural and magnetic properties of rare earth-iron-cobalt-vanadium intermetallic compounds (R: Tb, Dy). Journal of Alloys and Compounds, 2004, 367, 255-261.	5.5	10
46	EFFECT OF AIR EXPOSURE ON STRUCTURAL AND MAGNETIC FEATURES OF FeCo NANOPARTICLES. Modern Physics Letters B, 2007, 21, 1161-1168.	1.9	10
47	Magnetic properties and structural characteristics of a novel $\text{Ce}_{3/29}(\text{Fe}_{0.95}/\text{Ti}_{0.05})_{29}/\text{N}_4$ nitride. IEEE Transactions on Magnetics, 1995, 31, 3698-3700.	2.1	9
48	Magnetostrictive properties of amorphous and nanocrystalline TbDyFe films with Nb and Zr additives. Journal of Magnetism and Magnetic Materials, 1998, 187, 17-22.	2.3	9
49	Magnetic properties and composition range of non-stoichiometric m-type hexagonal ferrites prepared by ion exchange. Journal of Magnetism and Magnetic Materials, 1990, 89, 379-385.	2.3	8
50	Phase diagram and magnetic properties of $\text{Nd}_{3-x}\text{Dy}_x(\text{Fe}, \text{Ti})_{29}$ ($0.1 < x < 3$) intermetallic compounds. Journal of Alloys and Compounds, 2000, 305, 311-317.	5.5	8
51	Synthesis and magnetic properties of $(\text{R}, \text{R}^{\prime})_3(\text{Fe}, \text{Ti})_{29}$ (R=Pr, Nd and $\text{R}^{\prime}=\text{Sm}, \text{Er}$) intermetallic compounds. Journal of Alloys and Compounds, 2003, 352, 73-78.	5.5	8
52	Cell Behavioral Changes after the Application of Magneto-Mechanical Activation to Normal and Cancer Cells. Magnetochemistry, 2022, 8, 21.	2.4	8
53	Structural and magnetic properties of $\text{Nd}_3(\text{Fe}, \text{Ti})_{29}\text{C}_x$ carbide. Journal of Alloys and Compounds, 1996, 240, 134-138.	5.5	7
54	Impact of synthesis parameters on structural and magnetic characteristics of Co-based nanoparticles. Journal of Nanoparticle Research, 2009, 11, 1477-1484.	1.9	7

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55	The Effect of Composition and Structural Ordering on the Magnetism of FePt Nanoparticles. Journal of Nanoscience and Nanotechnology, 2010, 10, 6017-6023.	0.9	7
56	Crystal structure and composition of nonstoichiometric M-type hexagonal ferrites prepared by ion exchange. Solid State Ionics, 1992, 50, 11-18.	2.7	6
57	Structural and giant magnetoresistance characterization of AgCo multilayers. Journal of Magnetism and Magnetic Materials, 1997, 165, 334-337.	2.3	6
58	Structural and magnetic properties of $Y_3(Fe_{1-x}Co_x)_{27.5}V_{1.5}$ ($0 \leq x \leq 0.4$). Journal of Alloys and Compounds, 2005, 399, 41-46.	5.5	6
59	On the coordination environment of Fe- and Pb-rich solidified industrial waste: An X-ray absorption and Mössbauer study. Journal of Non-Crystalline Solids, 2006, 352, 2933-2942.	3.1	6
60	Existence and properties of Co-rich 3:29-type of compounds synthesized with heavy rare earths. Journal of Magnetism and Magnetic Materials, 2007, 316, e458-e461.	2.3	6
61	Structure and magnetic properties of $Sm(Co_{0.74}Fe_{0.1}Cu_{0.12}Zr_{0.04})_8$ melt-spun nanostructured alloys. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 152, 81-85.	3.5	6
62	Thermal treatment effects in the self-assembly of FePt nanoparticle arrays. Journal of Magnetism and Magnetic Materials, 2008, 320, 2665-2671.	2.3	6
63	Impedance spectroscopy study on the ionic conductivity processes of the novel $LiFeVO_4$ phase. Ionics, 2010, 16, 289-295.	2.4	6
64	Study of $LiMgVO_4$ electrical conductivity mechanism. Journal of Alloys and Compounds, 2010, 489, 714-718.	5.5	6
65	Preparation and properties of polycrystalline monovalent-cation $\text{R}^{2+}\text{Fe}^{3+}$ -ferrites. Materials Research Bulletin, 1993, 28, 385-392.	5.2	5
66	Nitrogen absorption in bulk and thin films of $RFe_{12-x}Tx$ -type compounds. Journal of Alloys and Compounds, 1995, 222, 44-48.	5.5	5
67	Influences of Co on structural and magnetic properties of $R_3(Fe_{1-x}Co_x)_29-yMy$ (R=rare earth metal, Y) $1 \leq x \leq 1$ $0 \leq y \leq 1$ $0 \leq M \leq 1$	5.5	5
68	ANNEALING EFFECT ON THE INDUCED MAGNETISM OF PLATINUM IN FePt NANOPARTICLES. Modern Physics Letters B, 2007, 21, 1189-1196.	1.9	5
69	Effects of various chemical synthetic routes on structural and magnetic features of Mn^{2+} -Pt bimetallic nanoparticles. Polyhedron, 2009, 28, 3284-3290.	2.2	5
70	Magnetocrystalline anisotropy of a novel $Y(Fe,V)_9.66$ intermetallic compound and its nitride with a disordered $CaCu_5$ -type structure. Journal of Magnetism and Magnetic Materials, 2000, 208, 20-26.	2.3	4
71	Detection by means of electrical and magnetic measurements of Cr^{n+} ($n > 3$) ions in polycrystalline $ZnCr_2O_4$ samples prepared by heating in air. Journal of Alloys and Compounds, 2005, 392, 310-316.	5.5	4
72	Modification of the Fe-environment in Fe_2O_3 glass/glass ceramic systems containing Pb, Na and Si. Nuclear Instruments & Methods in Physics Research B, 2006, 246, 170-175.	1.4	4

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73	Structural and Magnetic Properties of $\text{Sm}_{0.3}(\text{Fe}_{1-x}\text{Co}_x)_{27.7}\text{Ti}_{1.3}$. IEEE Transactions on Magnetics, 2006, 42, 3767-3769.	2.1	4
74	Improving the Subcutaneous Mouse Tumor Model by Effective Manipulation of Magnetic Nanoparticles-Treated Implanted Cancer Cells. Annals of Biomedical Engineering, 2018, 46, 1975-1987.	2.5	4
75	Thermal decomposition process of polycrystalline Cd-stabilized mono- and divalent-cation I^{2+} - and I^{2-} -ferrites. Solid State Ionics, 1994, 74, 205-209.	2.7	3
76	Structural and magnetic properties of a novel $\text{DyFe}_{9.16}\text{VO}_{5.50}$ intermetallic compound with a disordered CaCu_5 -type structure. Journal of Applied Physics, 1999, 86, 5444-5449.	2.5	3
77	The effect of humidity on the conductivity processes in polycrystalline Cu^{2+} -stabilised $\text{K}^{+}\text{I}^{2+}$ -ferrite. Solid State Ionics, 2000, 136-137, 375-380.	2.7	3
78	Magnetic properties and structural characteristics of interstitially modified $\text{Nd}_3(\text{Fe}_{1-x}\text{Co}_x)_{27.7}\text{Ti}_{1.3}\text{Ny}$ nitrides ($x=0.1, 0.2, 0.3, 0.4$). Journal of Magnetism and Magnetic Materials, 2004, 278, 46-56.	2.3	3
79	Identification of corrosion products resulting from accelerated oxidation process. Corrosion Engineering Science and Technology, 2009, 44, 469-473.	1.4	3
80	Using magnetic circular dichroism for the study of the magnetization and the magnetic moments of atoms in $\text{Nd}_{3-x}\text{Fe}_{27.5-x}\text{Ti}_{1.5-x}$. Journal of Physics Condensed Matter, 2009, 21, 236001.	1.8	3
81	Magnetic anisotropy of HoFeCoCr intermetallic compounds. Journal of Alloys and Compounds, 2009, 482, 19-22.	5.5	3
82	Impedance spectroscopy analysis of LiZnVO_4 and LiMgVO_4 . Ionics, 2013, 19, 1085-1090.	2.4	3
83	Synthesis, processing and characterization of Mn-based nanoparticles for permanent magnet applications. Materials Today: Proceedings, 2019, 19, 126-132.	1.8	3
84	Impedance spectroscopy related to reversible water uptake and loss in polycrystalline Cu^{2+} -stabilized $\text{K}^{+}\text{I}^{2+}$ -ferrite. Ionics, 1996, 2, 97-101.	2.4	2
85	Synthesis of melt-spun rare-earth transition-metal intermetallics with $\text{Nd}_3(\text{Fe,Ti})_{29}$ -type structure. Journal of Alloys and Compounds, 1999, 290, 1-5.	5.5	2
86	Crystallographic study of hydrated polycrystalline $\text{M}(\text{I}^{2+}, \text{I}^{2-})$ -ferrites ($\text{M}=\text{K}^+, \text{Mg}^{2+}, \text{Ca}^{2+}$). Solid State Ionics, 2000, 136-137, 441-446.	2.7	2
87	Magnetic properties of interstitial modified $\text{Pr}_3(\text{Fe,Ti})_{29}$ hydrocarbide. Journal of Alloys and Compounds, 2000, 307, 234-239.	5.5	2
88	Structure and magnetic properties of $\text{Gd}_4(\text{Co,Ti})_{41}$ alloys. Journal of Alloys and Compounds, 2006, 423, 59-61.	5.5	2
89	Influence of multilayer modulation on structural and magnetic features in the Pt/SmCo system. Journal of Magnetism and Magnetic Materials, 2009, 321, 3155-3158.	2.3	2
90	Size-Induced Effects in Wet-Chemically Synthesized CoPt_{33} Nanoparticles. Journal of Nanoscience and Nanotechnology, 2010, 10, 6087-6092.	0.9	2

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91	Impedance, dielectric and modulus analyses of compounds LiMnVO_4 and LiCuVO_4 . Advances in Applied Ceramics, 2012, 111, 408-414.	1.1	2
92	Structural and Magnetic Properties of Fe Doped Mn-Ga Ribbons. EPJ Web of Conferences, 2014, 75, 03004.	0.3	2
93	^{57}Fe Mössbauer study of a modified M-type Ba(Sr)-ferrite prepared by ion exchange. Solid State Ionics, 1993, 63-65, 528-533.	2.7	1
94	Magnetic characterisation and hydrogen absorption characteristics of $\text{Pr}_3(\text{Fe,Ti})_{29}\text{H}_x$. Journal of Magnetism and Magnetic Materials, 2001, 234, 47-54.	2.3	1
95	^{57}Fe Mössbauer spectroscopic studies of the magnetic anisotropy and spin reorientations in $\text{Nd}_3(\text{Fe}_{1-x}\text{Co}_x)_{27.7}\text{Ti}_{1.3}$ ($0 \leq x \leq 0.4$). Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1913-E1915.	2.3	1
96	Study on the existence and properties of $\text{Y}_3(\text{Fe}_{1-x}\text{Co}_x)_{29}\text{Cr}_y$ ($x=0.6 \sim 1.0$; $y=5 \sim 7$) intermetallic compounds. Journal of Alloys and Compounds, 2007, 437, 16-21.	5.5	1
97	Compensation law in stabilized Fe^{2+} - and Fe^{3+} -ferrites. Ionics, 2009, 15, 151-156.	2.4	1
98	The effect of humidity on the ionic conductivity of Mg^{2+} -stabilized K^{+} -ferrite. Ionics, 2009, 15, 531-536.	2.4	1
99	Magnetocrystalline Anisotropy of $\text{Nd}_3(\text{Fe}_{1-x}\text{Co}_x)_{27.7}\text{Ti}_{1.3}\text{Ny}$ Compounds. AIP Conference Proceedings, 2007, , .	0.4	0
100	Magnetocrystalline anisotropy of $\text{Nd}_3(\text{Fe}_{1-x}\text{Co}_x)_{27.7}\text{Ti}_{1.3}\text{Ny}$ compounds. Journal of Alloys and Compounds, 2008, 458, 37-40.	5.5	0
101	Tuning the Perpendicular Magnetic Anisotropy of Co-Based Layers in Multilayered Systems. Journal of Nanoscience and Nanotechnology, 2010, 10, 6082-6086.	0.9	0
102	Ionic Conductivity Study on Polycrystalline LiFeVO_4 . , 2010, , .		0
103	Structure and Magnetic Properties of Boron Doped $\text{Fe}_{50+x}\text{Cu}_{25-x}\text{M}_{25}$ ($\text{M} = \text{Al}, \text{Ga}$) and $\text{Fe}_{50+x}\text{Co}_{25-x}\text{Ga}_{25}$ Heusler Alloys. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	0
104	Synthesis, processing and characterization of FeMnGa nanoparticles for permanent magnet applications. Materials Today: Proceedings, 2017, 4, 6948-6953.	1.8	0