

Elisabetta Agostinelli

List of Publications by Year in descending order

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75
papers

1,571
citations

361045

20
h-index

329751

37
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76
all docs

76
docs citations

76
times ranked

2208
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-glass-like freezing and enhanced magnetization in ultra-small CoFe ₂ O ₄ nanoparticles. Nanotechnology, 2010, 21, 125705.	1.3	157
2	An XPS study of the electronic structure of the Zn _x Cd _{1-x} Cr ₂ (X = S, Se) spinel system. Journal of Physics and Chemistry of Solids, 1989, 50, 269-272.	1.9	140
3	Bimagnetic CoO Core/CoFe ₂ O ₄ Shell Nanoparticles: Synthesis and Magnetic Properties. Chemistry of Materials, 2012, 24, 512-516.	3.2	77
4	Synthesis of magnetic zeolite at low temperature using a waste material mixture: Fly ash and red mud. Microporous and Mesoporous Materials, 2015, 202, 208-216.	2.2	75
5	Magnetic interactions in silica coated nanoporous assemblies of CoFe ₂ O ₄ nanoparticles with cubic magnetic anisotropy. Nanotechnology, 2010, 21, 315701.	1.3	69
6	Solvothermal synthesis of MnFe ₂ O ₄ nanoparticles: The role of polymer coating on morphology and magnetic properties. Journal of Magnetism and Magnetic Materials, 2016, 399, 236-244.	1.0	67
7	Red mud as aluminium source for the synthesis of magnetic zeolite. Microporous and Mesoporous Materials, 2018, 270, 24-29.	2.2	63
8	Tuning the Size and Shape of Oxide Nanoparticles by Controlling Oxygen Content in the Reaction Environment: Morphological Analysis by Aspect Maps. Chemistry of Materials, 2015, 27, 1982-1990.	3.2	52
9	Physicochemical Investigation of Pulsed Laser Deposited Carbonated Hydroxyapatite Films on Titanium. ACS Applied Materials & Interfaces, 2009, 1, 1813-1820.	4.0	47
10	Origin of magnetic anisotropy in ZnO/CoFe ₂ O ₄ and CoO/CoFe ₂ O ₄ core/shell nanoparticle systems. Applied Physics Letters, 2012, 101, 252405.	1.5	43
11	Superparamagnetic blocking and superspin-glass freezing in ultra small γ -(Fe _{0.67} Mn _{0.33})OOH particles. Physical Chemistry Chemical Physics, 2012, 14, 3162.	1.3	40
12	Magnetic Interactions and Energy Barrier Enhancement in Core/Shell Bimagnetic Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 15755-15762.	1.5	40
13	Superconducting thin films of Bi ₂ CaCu ₂ O ₈ obtained by laser ablation processing. Applied Physics Letters, 1988, 53, 321-323.	1.5	37
14	Shape-control by microwave-assisted hydrothermal method for the synthesis of magnetite nanoparticles using organic additives. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	35
15	Hemiporphyrzine, a porphyrin-related macrocycle that induces rhombically compressed stereochemistries: structure and properties of bis(pyridine)(hemiporphyrzinato)nickel(II). Inorganic Chemistry, 1984, 23, 1162-1165.	1.9	29
16	Spin-glass behaviour in cobalt oxyspinel CoGa ₂ O ₄ . Journal of Magnetism and Magnetic Materials, 1986, 54-57, 83-84.	1.0	29
17	Effect of oxygen partial pressure on PLD cobalt oxide films. Applied Surface Science, 2008, 254, 5111-5115.	3.1	29
18	Great reduction of particulates in pulsed laser deposition of Ag ₂ Co films by using a shaded off-axis geometry. Applied Surface Science, 2000, 156, 143-148.	3.1	27

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19	Magnetization reversal mechanism in perpendicular exchange-coupled Fe/L1₀â€“FePt bilayers. New Journal of Physics, 2012, 14, 073008.	1.2	26
20	Structural and Morphological Characterization by Energy Dispersive X-ray Diffractometry and Reflectometry Measurements of Cr/Pt Bilayer Films. Chemistry of Materials, 2004, 16, 292-298.	3.2	25
21	Crystal growth and X-ray structural investigation of two forms of HgGa ₂ Te ₄ . Materials Chemistry and Physics, 1985, 12, 303-312.	2.0	20
22	Exchange bias and surface effects in bimagnetic<math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CoO</mml:mi><mml:math>^{\text{â€“}}</mml:math></mml:mrow></math>O</math> $^{\text{â€“}}$ </math>. Physical Review B, 2016, 94, .	1.3	18
23	Microstructure and magnetic properties of (0 01) textured L10 FePt films on amorphous glass substrate. Applied Surface Science, 2015, 337, 118-124.	3.1	19
24	Magnetic properties of vitreous and crystalline PbV ₂ O ₆ . Journal of Non-Crystalline Solids, 1986, 84, 329-336.	1.5	18
25	Crystal growth, thermodynamical and structural study of CoGa ₂ O ₄ and ZnCr ₂ O ₄ single crystals. Journal of Crystal Growth, 1986, 79, 410-416.	0.7	18
26	Magnetic anisotropy and intergrain interactions in L1₀CoPt(1â€“1)/Pt(1â€“1)/MgO(1â€“0) PLD granular films with tilted easy axes. Journal Physics D: Applied Physics, 2008, 41, 134017.	1.3	18
27	Exchange bias and magnetothermal properties in Fe@Mn nanocomposites. Journal of Magnetism and Magnetic Materials, 2012, 324, 3503-3507.	1.0	18
28	Crystallographic and magnetic investigations on cobalt gallium sulfides: $\hat{1}\pm$ -CoGa ₂ S ₄ and $\hat{1}^3$ -CoGa ₂ S ₄ . Journal of Physics and Chemistry of Solids, 1985, 46, 1345-1349.	1.9	17
29	Size effects in the spinâ€“flop transition of hematite nanoparticles. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1575-1576.	1.0	17
30	Surface Effects in Ultrathin Iron Oxide Hollow Nanoparticles: Exploring Magnetic Disorder at the Nanoscale. Journal of Physical Chemistry C, 2018, 122, 7516-7524.	1.5	16
31	Evolution of the Pt Layer Deposited on MgO(001) by Pulsed Laser Deposition as a Function of the Deposition Parameters: A Scanning Tunneling Microscopy and Energy Dispersive X-ray Diffractometry/Reflectometry Study. Journal of Physical Chemistry B, 2006, 110, 5529-5536.	1.2	15
32	Exchange Bias in CoFe ₂ O ₄ /NiO nanocomposites. Superlattices and Microstructures, 2009, 46, 125-129.	1.4	14
33	Interface exchange coupling in a CoPt/NiO bilayer. Thin Solid Films, 2013, 543, 162-166.	0.8	14
34	A low temperature and solvent-free direct chemical synthesis of L1₀ FePt nanoparticles with size tailoring. Green Chemistry, 2014, 16, 2292-2297.	4.6	14
35	Superspin glass state in a diluted nanoparticle system stabilized by interparticle interactions mediated by an antiferromagnetic matrix. Nanotechnology, 2017, 28, 035701.	1.3	14
36	High T _c superconducting thin films: An analysis of reflectance spectra. Physica C: Superconductivity and Its Applications, 1991, 180, 116-119.	0.6	13

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37	Spin-glass like behaviour in a concentrated chromium spinel: Zn _{0.5} Cd _{1-x} Cr ₂ S ₄ . Solid State Communications, 1985, 56, 541-543.	0.9	12
38	Highly Textured FeCo Thin Films Deposited by Low Temperature Pulsed Laser Deposition. ACS Applied Materials & Interfaces, 2015, 7, 22341-22347.	4.0	12
39	Disordered magnetic properties in the system Zn _x Cd _{1-x} Cr ₂ S ₄ . Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1641-1642.	1.0	11
40	Study of microstructure and magnetization reversal mechanism in granular CoCrPt:SiO ₂ films of variable thickness. Materials Chemistry and Physics, 2013, 141, 790-796.	2.0	11
41	Magnetic anisotropy phase-graded Al/LiO-FePt films on amorphous glass substrates. Materials and Design, 2017, 123, 147-153.	3.3	11
42	Ordered arrays of FePt nanoparticles on unoxidized silicon surface by wet chemistry. Superlattices and Microstructures, 2009, 46, 95-100.	1.4	10
43	Synthesis and Use in Catalysis of Hematite Nanoparticles Obtained from a Polymer Supported Fe(III) Complex. European Journal of Inorganic Chemistry, 2022, 2022, .	1.0	10
44	Reduced splashing effect in laser ablated superconducting thin films formed from a melt-quenched nonsuperconducting amorphous target. Journal of Materials Research, 1990, 5, 2075-2078.	1.2	9
45	Study of structural microstructural and magnetic properties of very thin Co ₅₀ Pt ₅₀ films deposited by PLD. Materials Science and Engineering C, 2007, 27, 1466-1469.	3.8	9
46	Study of Magnetic Easy Axis 3-D Arrangement in L ₁ ₀ CoPt(111)/Pt(111)/MgO(100) Tilted System for Perpendicular Recording. IEEE Transactions on Magnetics, 2008, 44, 643-647.	1.2	9
47	Preparation and characterization of textured thick films of the 2212 phase in the BSCCO and BPSCCO systems. Physica C: Superconductivity and Its Applications, 1991, 176, 216-226.	0.6	8
48	Investigation of static and dynamic magnetic properties of Joule heated granular Co ₁₀ Cu ₉₀ ribbons. Journal of Magnetism and Magnetic Materials, 1999, 202, 123-132.	1.0	8
49	Static and Dynamic Magnetic Properties of Melt-Spun Granular Cu _{100-x} Co _x Alloys. Materials Science Forum, 1997, 235-238, 705-710.	0.3	7
50	Hyperfine parameters of amorphous Fe ₆₄ Cr ₁₆ B ₂₀ particles dispersed in an alumina matrix. Hyperfine Interactions, 1990, 55, 933-937.	0.2	6
51	XPS studies of iron sodium borosilicate glasses. Journal of Non-Crystalline Solids, 1987, 95-96, 373-379.	1.5	5
52	Preparation and characterization of the superconducting system Bi _{1-x} Pb _x SrCaCu ₂ O _y . Journal of Materials Research, 1989, 4, 1103-1110.	1.2	5
53	Growth, thermodynamic and magneto-structural study of FeGa ₂ O ₄ single crystals. Journal of Crystal Growth, 1991, 112, 644-650.	0.7	5
54	Ledge-type Co/Li-FePt exchange-coupled composites. Journal of Applied Physics, 2016, 119, .	1.1	5

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55	T ₁ as a function of Larmor frequency in solid CH ₄ at 4.2 K: An experiment on recent theories. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 95, 118-120.	0.9	4
56	Laser ablation deposition of superconducting Bi _{1-x} Sr _x Ca _{1-y} Cu _y O thin films on zirconia-buffered crystalline quartz. Journal of Applied Physics, 1989, 65, 4447-4449.	1.1	4
57	Stabilization of the 108 K superconducting phase in the Bi _{0.7} Pb _{0.3} SrCaCu _{1.8} O _y system. Journal of Superconductivity and Novel Magnetism, 1989, 2, 361-367.	0.5	4
58	Magnetic measurements on Bi-Sr-Ca-Cu-O superconductor. Journal of Magnetism and Magnetic Materials, 1990, 83, 509-510.	1.0	4
59	Structural and magnetic properties of PLD Co _{1-x} Ag _x granular thin films. Journal of Magnetism and Magnetic Materials, 1999, 203, 196-198.	1.0	4
60	Exchange Bias in fcc-CoPt/CoO/Si films as a function of annealing treatment. Superlattices and Microstructures, 2009, 46, 90-94.	1.4	4
61	Magnetic investigation of Bi ₂ Sr ₂ CaCu ₂ O _{8+x} single crystals. Physica C: Superconductivity and Its Applications, 1989, 162-164, 319-320.	0.6	3
62	Structural and magnetic properties of granular Co-Ag thin films deposited by pulsed laser deposition. Scripta Materialia, 1998, 10, 217-233.	0.5	3
63	Study of Magnetic Properties of Joule Heated Granular Co _{1-x} Cu _x 100-x Ribbons. Materials Science Forum, 1999, 307, 153-158.	0.3	3
64	Magnetic and transport properties of Co-Ag nanocrystalline particles. Materials Science and Engineering C, 2002, 19, 151-154.	3.8	3
65	Structural, morphological and magnetic study of CoPt/Cr/MgO films by energy dispersive X-ray diffractometry and reflectometry measurements. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E873-E874.	1.0	3
66	Magnetic properties of YBa ₂ Cu ₃ O _{7-x} superconductor: Flux trapping and glassy like features. Physica C: Superconductivity and Its Applications, 1988, 153-155, 334-335.	0.6	2
67	There is still plenty of room at the bottom: Nanostructured Materials 2010. Journal of Nanoparticle Research, 2011, 13, 5585-5586.	0.8	2
68	Relaxation effects in Bi ₂ Sr ₂ Ca ₁ Cu ₂ O _{8+x} and Bi _{1.7} Pb _{0.3} Sr ₂ Ca ₁ Cu ₂ O _{8+x} single crystals. Superconductor Science and Technology, 1991, 4, S223-S225.	1.8	1
69	Investigation of magnetization reversal processes in Co-Pt/Pt thin films. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 467-470.	1.0	1
70	Magnetic susceptibility and magnetization measurements on YBa ₂ Cu ₃ O _{7-x} sintered samples. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1989, 11, 1355-1365.	0.4	0
71	Dissipative effects in Bi ₂ Sr ₂ Ca ₁ Cu ₂ O _{8+x} and Bi _{1.7} Pb _{0.3} Sr ₂ Ca ₁ Cu ₂ O _{8+x} single crystals. Journal of the Less Common Metals, 1990, 164-165, 553-558.	0.9	0
72	Magnetic investigation of dissipative effects in Bi-Pb-Sr-Ca-Cu-O thick films. Physica C: Superconductivity and Its Applications, 1991, 180, 172-175.	0.6	0

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73	Irreversibility (H, T) line in Bi-Pb-Sr-Ca-CuO superconductor. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 603-604.	1.0	0
74	Structural and magnetic properties of pulsed laser deposited CoPt ₃ films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E907-E908.	1.0	0
75	A Special Section on Metastable, Amorphous and Nanostructured Materials. Journal of Nanoscience and Nanotechnology, 2020, 20, 4537-4539.	0.9	0