

Alberto Maria Testa

List of Publications by Year in descending order

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92
docs citations

92
times ranked

3160
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of high critical currents in YBa ₂ Cu ₃ O _{7-δ} superconducting thin films. Nature, 1999, 399, 439-442.	13.7	432
2	Surface-related properties of $\hat{\text{I}}^3$ -Fe ₂ O ₃ nanoparticles. Journal of Magnetism and Magnetic Materials, 2000, 221, 63-79.	1.0	272
3	Magnetothermal behavior of a nanoscale Fe/Fe oxide granular system. Physical Review B, 2002, 66, .	1.1	187
4	Field-cooling dependence of exchange bias in a granular system of Fe nanoparticles embedded in an Fe oxide matrix. Physical Review B, 2004, 70, .	1.1	149
5	Investigation of magnetic properties of interacting Fe ₂ O ₃ nanoparticles. Journal of Magnetism and Magnetic Materials, 2001, 224, 5-11.	1.0	138
6	Magnetic properties of maghemite nanoparticle systems: surface anisotropy and interparticle interaction effects. Physica B: Condensed Matter, 2002, 320, 122-126.	1.3	127
7	Surface effects in noninteracting and interacting $\hat{\text{I}}^3$ -Fe ₂ O ₃ nanoparticles. Journal of Magnetism and Magnetic Materials, 2003, 262, 6-14.	1.0	126
8	Evidence of Cobalt-Vacancy Complexes in ZnO Dilute Magnetic Semiconductors. Physical Review Letters, 2011, 107, 127206.		
9	Magnetic interactions in silica coated nanoporous assemblies of CoFe ₂ O ₄ nanoparticles with cubic magnetic anisotropy. Nanotechnology, 2010, 21, 315701.	1.3	69
10	Magnetic properties of ultrafine $\hat{\text{I}}^{\pm}$ -Fe ₂ O ₃ antiferromagnetic particles. Journal of Magnetism and Magnetic Materials, 1994, 133, 71-73.	1.0	67
11	Nonuniversal temperature dependencies of the low-frequency ac magnetic susceptibility in high-T _c superconductors. Physical Review B, 1999, 59, 11539-11550.	1.1	58
12	The interplay between single particle anisotropy and interparticle interactions in ensembles of magnetic nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 28634-28643.	1.3	54
13	Magnetite Nanoparticles Anchored to Crystalline Silicon Surfaces. Chemistry of Materials, 2005, 17, 3311-3316.	3.2	46
14	$\text{Mn}_{0.06}\text{Ge}_{0.94}$ diluted magnetic semiconductor epitaxially grown on Ge(001): Influence of	1.1	44
15	Free Rotation of Magnetic Nanoparticles in a Solid Matrix. Chemistry of Materials, 2001, 13, 1487-1490.	3.2	42
16	General Features of Quantum Creep in High-T _c Superconductors. Physical Review Letters, 1998, 80, 4293-4296.	2.9	33
17	Classy dynamics in the exchange bias properties of the iron/iron oxide nanogranular system. Physical Review B, 2006, 73, .	1.1	33
18	Exchange bias in a superspin glass system of Co particles in Mn matrix. Journal Physics D: Applied Physics, 2008, 41, 134009.	1.3	33

#	ARTICLE	IF	CITATIONS
19	Glassy dynamics in an exchange bias nanogranular system: Fe/FeOx. Journal of Magnetism and Magnetic Materials, 2006, 300, 179-184.	1.0	31
20	Exchange bias in Co nanoparticles embedded in an Mn matrix. Journal of Magnetism and Magnetic Materials, 2007, 316, 155-158.	1.0	31
21	Double perovskite Sr ₂ FeMoO ₆ films: Growth, structure, and magnetic behavior. Journal of Applied Physics, 2006, 100, 013907.	1.1	27
22	Exchange bias in a magnetic ordered/disordered nanoparticle system: A Monte Carlo simulation study. Journal of Magnetism and Magnetic Materials, 2007, 316, e82-e85.	1.0	27
23	Magnetization reversal mechanism in perpendicular exchange-coupled Fe/L ₁ 0₀-FePt bilayers. New Journal of Physics, 2012, 14, 073008.	1.2	26
24	Unconventional magnetic behavior of iron-oxide nanoparticles in polymeric matrices. Journal of Applied Physics, 2001, 90, 1534-1539.	1.1	25
25	Exchange bias in disordered granular systems. Journal of Physics Condensed Matter, 2007, 19, 225007.	0.7	24
26	Magnetic dynamics of γ -Fe ₂ O ₃ nanoparticles. Scripta Materialia, 1995, 6, 945-948.	0.5	23
27	Interface exchange coupling in Co nanoparticles dispersed in a Mn matrix. Journal of Physics Condensed Matter, 2010, 22, 436005.	0.7	20
28	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
29	Giant magneto-optical response in H ⁺ irradiated Zn _{1-x} Co _x O thin films. Journal of Materials Chemistry C, 2019, 7, 78-85.	2.7	19
30	Effects of annealing under reducing atmosphere on BSCCO 2212 textured thick films prepared by partial melting techniques. Physica C: Superconductivity and Its Applications, 1992, 203, 403-410.	0.6	18
31	Structural and magnetic properties of γ -Fe ₂ O ₃ nanoparticles. Applied Organometallic Chemistry, 1998, 12, 347-351.	1.7	18
32	Magnetic properties of nanocrystalline CoFe ₂ O ₄ dispersed in amorphous silica. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1561-1562.	1.0	18
33	Magnetic anisotropy and intergrain interactions in L ₁ 0₀-CoPt(111)/Pt(111)/MgO(000) PLD granular films with tilted easy axes. Journal Physics D: Applied Physics, 2008, 41, 134017.	1.3	18
34	Exchange bias and magnetothermal properties in Fe@Mn nanocomposites. Journal of Magnetism and Magnetic Materials, 2012, 324, 3503-3507.	1.0	18
35	Temperature and magnetic-field dependence of quantum creep in various high-T _c superconductors. Physical Review B, 1999, 59, 7222-7237.	1.1	17
36	Experimental evidence of quantum tunnelling in TlBaCaCuO. Journal of Physics Condensed Matter, 1992, 4, 10341-10346.	0.7	16

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37	Magnetic properties of the Fe/Fe oxide granular system. Journal of Magnetism and Magnetic Materials, 2003, 262, 128-131.	1.0	16
38	MnxGe1-x thin layers studied by TEM, X-ray absorption spectroscopy and SQUID magnetometry. Surface Science, 2007, 601, 2628-2631.	0.8	15
39	Size and shape effect on the canted antiferromagnetism in $\hat{1}\pm$ -Fe2O3 particles. Scripta Materialia, 1999, 12, 939-942.	0.5	14
40	Frequency dependence of HTS AC harmonic susceptibility in the Kim-Anderson and collective pinning vortex glass models. IEEE Transactions on Applied Superconductivity, 2001, 11, 3924-3927.	1.1	14
41	Nano-patterning of perpendicular magnetic recording media by low-energy implantation of chemically reactive ions. Journal of Magnetism and Magnetic Materials, 2010, 322, 2762-2768.	1.0	14
42	Interface exchange coupling in a CoPt/NiO bilayer. Thin Solid Films, 2013, 543, 162-166.	0.8	14
43	Ferromagnetism above room temperature in Mn-doped ZnO thin films. Superlattices and Microstructures, 2009, 46, 101-106.	1.4	13
44	Highly Textured FeCo Thin Films Deposited by Low Temperature Pulsed Laser Deposition. ACS Applied Materials & Interfaces, 2015, 7, 22341-22347.	4.0	12
45	Study of microstructure and magnetization reversal mechanism in granular CoCrPt:SiO2 films of variable thickness. Materials Chemistry and Physics, 2013, 141, 790-796.	2.0	11
46	CVT growth and characterization of Zn1-xMnxCr2O4 single crystals. Journal of Crystal Growth, 1993, 128, 859-863.	0.7	10
47	Crystal growth and magnetic characterization of Zn1-xMnxCr2O4 single crystals. Journal of Materials Science, 1993, 28, 3945-3950.	1.7	10
48	Static magnetic properties at low and medium field of γ -Fe ₂ O ₃ particles with controlled dispersion. IEEE Transactions on Magnetics, 1994, 30, 1098-1100.	1.2	10
49	MOCVD Growth, Micro-Structural, and Superconducting Properties of a-axis Oriented TlBaCaCuO Thin Films. Chemistry of Materials, 2004, 16, 608-613.	3.2	10
50	Ordered arrays of FePt nanoparticles on unoxidized silicon surface by wet chemistry. Superlattices and Microstructures, 2009, 46, 95-100.	1.4	10
51	Study of structural microstructural and magnetic properties of very thin Co50Pt50 films deposited by PLD. Materials Science and Engineering C, 2007, 27, 1466-1469.	3.8	9
52	Study of Magnetic Easy Axis 3-D Arrangement in L1 ₀ CoPt(111)/Pt(111)/MgO(100) Tilted System for Perpendicular Recording. IEEE Transactions on Magnetics, 2008, 44, 643-647.	1.2	9
53	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
54	Magnetic properties of Fe80B20 alloy with nanocrystalline structures. Journal of Magnetism and Magnetic Materials, 1994, 133, 295-298.	1.0	8

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55	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
56	Local magneto-optical response of H ⁺ irradiated Zn _{1-x} CoxO thin films. European Physical Journal: Special Topics, 2019, 228, 683-687.	1.2	7
57	Transport mechanisms in Co-doped ZnO (ZCO) and H-irradiated ZCO polycrystalline thin films. Physical Chemistry Chemical Physics, 2021, 23, 2368-2376.	1.3	7
58	CVT growth, and magnetic and electronic properties of NiGa ₂ O ₄ single crystals. Journal of Crystal Growth, 1990, 104, 498-504.	0.7	6
59	Synthesis and characterization of amorphous Fe _{80-x} CrxB ₂₀ nanoparticles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 204, 165-168.	2.6	6
60	Ferromagnetic Mn-doped Si _{0.3} Ge _{0.7} nanodots self-assembled on Si(100). Journal of Physics Condensed Matter, 2012, 24, 142203.	0.7	6
61	Growth, thermodynamic and magneto-structural study of FeGa ₂ O ₄ single crystals. Journal of Crystal Growth, 1991, 112, 644-650.	0.7	5
62	Vortex-lattice melting in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ epitaxial films: Role of the oxygen stoichiometry. Physical Review B, 1994, 50, 3446-3449.	1.1	5
63	Ledge-type Co/L1-FePt exchange-coupled composites. Journal of Applied Physics, 2016, 119, .	1.1	5
64	Ferromagnetic Behavior and Magneto-Optical Properties of Semiconducting Co-Doped ZnO. Nanomaterials, 2022, 12, 1525.	1.9	5
65	Magnetic measurements on Bi-Sr-Ca-Cu-O superconductor. Journal of Magnetism and Magnetic Materials, 1990, 83, 509-510.	1.0	4
66	Growth and magnetic characterization of YBCO films. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1987-1991.	0.4	4
67	Field and frequency dependences of ac magnetic measurements as a probe of nonlinear flux diffusion in high-temperature superconductors. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 997-1001.	0.6	4
68	Aging in an exchange biased Fe/FeOxide nanogranular system. Journal of Magnetism and Magnetic Materials, 2007, 310, 2289-2291.	1.0	4
69	Exchange Bias in fcc-CoPt/CoO/Si films as a function of annealing treatment. Superlattices and Microstructures, 2009, 46, 90-94.	1.4	4
70	Pinning and dissipative effects in Bi-Pb-Sr-Ca-CuO superconductor. Journal of Superconductivity and Novel Magnetism, 1992, 5, 39-45.	0.5	3
71	Study of Magnetic Properties of Joule Heated Granular Co _x Cu _{100-x} Ribbons. Materials Science Forum, 1999, 307, 153-158.	0.3	3
72	Magnetic and transport properties of Co ^{Ag} nanocrystalline particles. Materials Science and Engineering C, 2002, 19, 151-154.	3.8	3

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73	Microstructure and magnetic behavior of PLD Sr ₂ FeMoO ₆ thin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 3229-3232.	0.8	3
74	Magnetic relaxation and critical current in Bi ₂ Sr ₂ CaCu ₂ O _{8+x} single crystals. <i>Journal of Superconductivity and Novel Magnetism</i> , 1990, 3, 211-214.	0.5	2
75	Synthesis, structural and magnetic properties of amorphous Fe ₈₀ ~XCrXB ₂₀ particles. <i>Scripta Materialia</i> , 1995, 6, 949-952.	0.5	2
76	Dissipative effects near the transition temperature of high T _c superconductor. <i>European Physical Journal D</i> , 1996, 46, 1801-1802.	0.4	2
77	Structural and superconducting properties of EuBa ₂ Cu ₃ O _{7-δ} thin films grown by off-axis pulsed laser deposition. <i>Superconductor Science and Technology</i> , 2004, 17, 1009-1013.	1.8	2
78	Novel ultrasonic-assisted alignment of L10 FePt nanoparticles. <i>Superlattices and Microstructures</i> , 2009, 46, 121-124.	1.4	2
79	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. <i>Superconductor Science and Technology</i> , 1991, 4, S223-S225.	1.8	1
80	Effect of N ⁺ irradiation on the microstructural and magnetic properties of Co/Pd multilayers. <i>EPJ Applied Physics</i> , 2007, 38, 253-258.	0.3	1
81	Magnetic and X-ray absorption investigations of Co-doped ZnO films. <i>Journal of Physics: Conference Series</i> , 2010, 200, 072025.	0.3	1
82	Investigation of magnetic coupling in FePt/spacer/FePt trilayers. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 445002.	1.3	1
83	Role of the carrier density in the transport mechanisms of polycrystalline ZnO films. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13918-13925.	1.3	1
84	Magnetic susceptibility and magnetization measurements on YBa ₂ Cu ₃ O _{7-δ} sintered samples. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1989, 11, 1355-1365.	0.4	0
85	Superconducting properties of polycrystalline YBCO prepared by a pyrolytic process. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994, 16, 1685-1688.	0.4	0
86	Flux motion by quantum tunnelling in high-T _c superconductors. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994, 16, 1925-1932.	0.4	0
87	Role of oxygen content on dimensionality and pinning of epitaxial BSCCO-2212. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994, 16, 1947-1951.	0.4	0
88	Investigation on different contributions to the magnetic irreversibility in Bi ₂ Sr ₂ CaCu ₂ O ₈ single crystals. <i>European Physical Journal D</i> , 1996, 46, 1597-1598.	0.4	0
89	Quantum tunneling of vortices in high-T _c superconducting cuprates. <i>European Physical Journal D</i> , 1996, 46, 1743-1744.	0.4	0
90	Experimental study of the irreversible magnetization in a single crystal. <i>Superconductor Science and Technology</i> , 1997, 10, 203-208.	1.8	0

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91	MOCVD Growth, Micro-Structural, and Superconducting Properties of a-Axis Oriented TlBaCaCuO Thin Films.. ChemInform, 2004, 35, no.	0.1	0
92	Quantum Tunneling of Vortices in High-T _c Superconductors: Magnetic Relaxation Experiments in TlBaCaCuO Compounds. , 1995, , 435-453.		0