

Alberto Maria Testa

List of Publications by Year in descending order

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3160
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#	ARTICLE	IF	CITATIONS
1	Ferromagnetic Behavior and Magneto-Optical Properties of Semiconducting Co-Doped ZnO. <i>Nanomaterials</i> , 2022, 12, 1525.	1.9	5
2	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
3	Transport mechanisms in Co-doped ZnO (ZCO) and H-irradiated ZCO polycrystalline thin films. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2368-2376.	1.3	7
4	Local magneto-optical response of H ⁺ irradiated Zn _{1-x} Co _x O thin films. <i>European Physical Journal: Special Topics</i> , 2019, 228, 683-687.	1.2	7
5	Giant magneto-optical response in H ⁺ irradiated Zn _{1-x} Co _x O thin films. <i>Journal of Materials Chemistry C</i> , 2019, 7, 78-85.	2.7	19
6	The interplay between single particle anisotropy and interparticle interactions in ensembles of magnetic nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28634-28643.	1.3	54
7	Investigation of magnetic coupling in FePt/spacer/FePt trilayers. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 445002.	1.3	1
8	Ledge-type Co/L1-FePt exchange-coupled composites. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	5
9	Microstructure and magnetic properties of (0 01) textured L10 FePt films on amorphous glass substrate. <i>Applied Surface Science</i> , 2015, 337, 118-124.	3.1	19
10	Highly Textured FeCo Thin Films Deposited by Low Temperature Pulsed Laser Deposition. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22341-22347.	4.0	12
11	Interface exchange coupling in a CoPt/NiO bilayer. <i>Thin Solid Films</i> , 2013, 543, 162-166.	0.8	14
12	Study of microstructure and magnetization reversal mechanism in granular CoCrPt:SiO ₂ films of variable thickness. <i>Materials Chemistry and Physics</i> , 2013, 141, 790-796.	2.0	11
13	Ferromagnetic Mn-doped Si _{0.3} Ge _{0.7} nanodots self-assembled on Si(100). <i>Journal of Physics Condensed Matter</i> , 2012, 24, 142203.	0.7	6
14	Exchange bias and magnetothermal properties in Fe@Mn nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3503-3507.	1.0	18
15	Magnetization reversal mechanism in perpendicular exchange-coupled Fe/L1 ₀ FePt bilayers. <i>New Journal of Physics</i> , 2012, 14, 073008.	1.2	26
16	Evidence of Cobalt-Vacancy Complexes in Zn _{1-x} Co _x O Dilute Magnetic Semiconductors. <i>Physical Review Letters</i> , 2011, 107, 127206.	2.0	86
17	Magnetic and X-ray absorption investigations of Co-doped ZnO films. <i>Journal of Physics: Conference Series</i> , 2010, 200, 072025.	0.3	1
18	Nano-patterning of perpendicular magnetic recording media by low-energy implantation of chemically reactive ions. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 2762-2768.	1.0	14

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19	Interface exchange coupling in Co nanoparticles dispersed in a Mn matrix. Journal of Physics Condensed Matter, 2010, 22, 436005.	0.7	20
20	Magnetic interactions in silica coated nanoporous assemblies of CoFe_2O_4 nanoparticles with cubic magnetic anisotropy. Nanotechnology, 2010, 21, 315701.	1.3	69
21	Novel ultrasonic-assisted alignment of L10 FePt nanoparticles. Superlattices and Microstructures, 2009, 46, 121-124.	1.4	2
22	Exchange Bias in fcc-CoPt/CoO/Si films as a function of annealing treatment. Superlattices and Microstructures, 2009, 46, 90-94.	1.4	4
23	Ferromagnetism above room temperature in Mn-doped ZnO thin films. Superlattices and Microstructures, 2009, 46, 101-106.	1.4	13
24	Ordered arrays of FePt nanoparticles on unoxidized silicon surface by wet chemistry. Superlattices and Microstructures, 2009, 46, 95-100.	1.4	10
25	Study of Magnetic Easy Axis 3-D Arrangement in L1_{00} CoPt(111)/Pt(111)/MgO(100) Tilted System for Perpendicular Recording. IEEE Transactions on Magnetics, 2008, 44, 643-647.	1.2	9
26	$\text{Mn}_{0.06}\text{Ge}_{0.94}$ diluted magnetic semiconductor epitaxially grown on Ge(001): Influence of	1.1	44
27	Exchange bias in a superspin glass system of Co particles in Mn matrix. Journal Physics D: Applied Physics, 2008, 41, 134009.	1.3	33
28	Magnetic anisotropy and intergrain interactions in L1_0 CoPt(111)/Pt(111)/MgO(100) PLD granular films with tilted easy axes. Journal Physics D: Applied Physics, 2008, 41, 134017.	1.3	18
29	Exchange bias in disordered granular systems. Journal of Physics Condensed Matter, 2007, 19, 225007.	0.7	24
30	Effect of N-irradiation on the microstructural and magnetic properties of Co/Pd multilayers. EPJ Applied Physics, 2007, 38, 253-258.	0.3	1
31	$\text{Mn}_x\text{Ge}_{1-x}$ thin layers studied by TEM, X-ray absorption spectroscopy and SQUID magnetometry. Surface Science, 2007, 601, 2628-2631.	0.8	15
32	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
33	Aging in an exchange biased Fe/FeOxide nanogranular system. Journal of Magnetism and Magnetic Materials, 2007, 310, 2289-2291.	1.0	4
34	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
35	Exchange bias in Co nanoparticles embedded in an Mn matrix. Journal of Magnetism and Magnetic Materials, 2007, 316, 155-158.	1.0	31
36	Microstructure and magnetic behavior of PLD $\text{Sr}_2\text{FeMoO}_6$ thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3229-3232.	0.8	3

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37	Glassy dynamics in an exchange bias nanogranular system: Fe/FeOx. Journal of Magnetism and Magnetic Materials, 2006, 300, 179-184.	1.0	31
38	Double perovskite Sr ₂ FeMoO ₆ films: Growth, structure, and magnetic behavior. Journal of Applied Physics, 2006, 100, 013907.	1.1	27
39	Glassy dynamics in the exchange bias properties of the iron/iron oxide nanogranular system. Physical Review B, 2006, 73, .	1.1	33
40	Magnetite Nanoparticles Anchored to Crystalline Silicon Surfaces. Chemistry of Materials, 2005, 17, 3311-3316.	3.2	46
41	Structural and superconducting properties of EuBa ₂ Cu ₃ O _{7-x} thin films grown by off-axis pulsed laser deposition. Superconductor Science and Technology, 2004, 17, 1009-1013.	1.8	2
42	MOCVD Growth, Micro-Structural, and Superconducting Properties of a-Axis Oriented TlBaCaCuO Thin Films.. ChemInform, 2004, 35, no.	0.1	0
43	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
44	MOCVD Growth, Micro-Structural, and Superconducting Properties of a-Axis Oriented TlBaCaCuO Thin Films. Chemistry of Materials, 2004, 16, 608-613.	3.2	10
45	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
46	Surface effects in noninteracting and interacting ⁵⁷ Fe-Fe ₂ O ₃ nanoparticles. Journal of Magnetism and Magnetic Materials, 2003, 262, 6-14.	1.0	126
47	Magnetic properties of the Fe/Fe oxide granular system. Journal of Magnetism and Magnetic Materials, 2003, 262, 128-131.	1.0	16
48	Magneto-thermal behavior of a nanoscale Fe/Fe oxide granular system. Physical Review B, 2002, 66, .	1.1	187
49	Magnetic properties of maghemite nanoparticle systems: surface anisotropy and interparticle interaction effects. Physica B: Condensed Matter, 2002, 320, 122-126.	1.3	127
50	Magnetic and transport properties of Co-Ag nanocrystalline particles. Materials Science and Engineering C, 2002, 19, 151-154.	3.8	3
51	Free Rotation of Magnetic Nanoparticles in a Solid Matrix. Chemistry of Materials, 2001, 13, 1487-1490.	3.2	42
52	Investigation of magnetic properties of interacting Fe ₂ O ₃ nanoparticles. Journal of Magnetism and Magnetic Materials, 2001, 224, 5-11.	1.0	138
53	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
54	Unconventional magnetic behavior of iron-oxide nanoparticles in polymeric matrices. Journal of Applied Physics, 2001, 90, 1534-1539.	1.1	25

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55	Surface-related properties of $\hat{\text{I}}^3\text{-Fe}_2\text{O}_3$ nanoparticles. Journal of Magnetism and Magnetic Materials, 2000, 221, 63-79.	1.0	272
56	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
57	Study of Magnetic Properties of Joule Heated Granular $\text{Co}_{1-x}\text{Cu}_x$ Ribbons. Materials Science Forum, 1999, 307, 153-158.	0.3	3
58	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
59	Temperature and magnetic-field dependence of quantum creep in various high- T_c superconductors. Physical Review B, 1999, 59, 7222-7237.	1.1	17
60	Origin of high critical currents in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ superconducting thin films. Nature, 1999, 399, 439-442.	13.7	432
61	Investigation of static and dynamic magnetic properties of Joule heated granular $\text{Co}_{10}\text{Cu}_{90}$ ribbons. Journal of Magnetism and Magnetic Materials, 1999, 202, 123-132.	1.0	8
62	Size and shape effect on the canted antiferromagnetism in $\hat{\text{I}}^\pm\text{-Fe}_2\text{O}_3$ particles. Scripta Materialia, 1999, 12, 939-942.	0.5	14
63	Structural and magnetic properties of Fe_2O_3 nanoparticles. Applied Organometallic Chemistry, 1998, 12, 347-351.	1.7	18
64	General Features of Quantum Creep in High- T_c Superconductors. Physical Review Letters, 1998, 80, 4293-4296.	2.9	33
65	Experimental study of the irreversible magnetization in a single crystal. Superconductor Science and Technology, 1997, 10, 203-208.	1.8	0
66	Investigation on different contributions to the magnetic irreversibility in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ single crystals. European Physical Journal D, 1996, 46, 1597-1598.	0.4	0
67	Quantum tunneling of vortices in high- T_c superconducting cuprates. European Physical Journal D, 1996, 46, 1743-1744.	0.4	0
68	Dissipative effects near the transition temperature of high T_c superconductor. European Physical Journal D, 1996, 46, 1801-1802.	0.4	2
69	Synthesis and characterization of amorphous $\text{Fe}_{80-x}\text{Cr}_x\text{B}_{20}$ nanoparticles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 204, 165-168.	2.6	6
70	Magnetic dynamics of $\hat{\text{I}}^3\text{-Fe}_2\text{O}_3$ nanoparticles. Scripta Materialia, 1995, 6, 945-948.	0.5	23
71	Synthesis, structural and magnetic properties of amorphous $\text{Fe}_{80-x}\text{Cr}_x\text{B}_{20}$ particles. Scripta Materialia, 1995, 6, 949-952.	0.5	2
72	Quantum Tunneling of Vortices in High- T_c Superconductors: Magnetic Relaxation Experiments in TlBaCaCuO Compounds. , 1995, , 435-453.		0

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73	Vortex-lattice melting in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ epitaxial films: Role of the oxygen stoichiometry. <i>Physical Review B</i> , 1994, 50, 3446-3449.	1.1	5
74	Static magnetic properties at low and medium field of $\gamma\text{-Fe}_2\text{O}_3$ particles with controlled dispersion. <i>IEEE Transactions on Magnetics</i> , 1994, 30, 1098-1100.	1.2	10
75	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
76	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
77	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
78	Growth and magnetic characterization of YBCO films. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994, 16, 1987-1991.	0.4	4
79	Magnetic properties of ultrafine $\text{La-Fe}_2\text{O}_3$ antiferromagnetic particles. <i>Journal of Magnetism and Magnetic Materials</i> , 1994, 133, 71-73.	1.0	67
80	Magnetic properties of $\text{Fe}_{80}\text{B}_{20}$ alloy with nanocrystalline structures. <i>Journal of Magnetism and Magnetic Materials</i> , 1994, 133, 295-298.	1.0	8
81	CVT growth and characterization of $\text{Zn}_{1-x}\text{Mn}_x\text{Cr}_2\text{O}_4$ single crystals. <i>Journal of Crystal Growth</i> , 1993, 128, 859-863.	0.7	10
82	Crystal growth and magnetic characterization of $\text{Zn}_{1-x}\text{Mn}_x\text{Cr}_2\text{O}_4$ single crystals. <i>Journal of Materials Science</i> , 1993, 28, 3945-3950.	1.7	10
83	Experimental evidence of quantum tunnelling in TlBaCaCuO . <i>Journal of Physics Condensed Matter</i> , 1992, 4, 10341-10346.	0.7	16
84	Pinning and dissipative effects in Bi-Pb-Sr-Ca-CuO superconductor. <i>Journal of Superconductivity and Novel Magnetism</i> , 1992, 5, 39-45.	0.5	3
85	Effects of annealing under reducing atmosphere on BSCCO 2212 textured thick films prepared by partial melting techniques. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 203, 403-410.	0.6	18
86	Preparation and characterization of textured thick films of the 2212 phase in the BSCCO and BPSCCO systems. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 176, 216-226.	0.6	8
87	Growth, thermodynamic and magneto-structural study of FeGa_2O_4 single crystals. <i>Journal of Crystal Growth</i> , 1991, 112, 644-650.	0.7	5
88	Relaxation effects in $\text{Bi}_2\text{Sr}_2\text{Ca}_1\text{Cu}_2\text{O}_{8+x}$ and $\text{Bi}_{1.7}\text{Pb}_{0.3}\text{Sr}_2\text{Ca}_1\text{Cu}_2\text{O}_{8+x}$ single crystals. <i>Superconductor Science and Technology</i> , 1991, 4, S223-S225.	1.8	1
89	Magnetic measurements on Bi-Sr-Ca-Cu-O superconductor. <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 83, 509-510.	1.0	4
90	Magnetic relaxation and critical current in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ single crystals. <i>Journal of Superconductivity and Novel Magnetism</i> , 1990, 3, 211-214.	0.5	2

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91	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
92	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