

Dante Homero Mosca

List of Publications by Year in descending order

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108
papers

2,666
citations

279487

23
h-index

197535

49
g-index

108
all docs

108
docs citations

108
times ranked

2701
citing authors

#	ARTICLE	IF	CITATIONS
1	Oscillatory interlayer coupling and giant magnetoresistance in Co/Cu multilayers. Journal of Magnetism and Magnetic Materials, 1991, 94, L1-L5.	1.0	633
2	Nickel nanoparticles obtained by a modified polyol process: Synthesis, characterization, and magnetic properties. Journal of Colloid and Interface Science, 2007, 311, 461-468.	5.0	220
3	Oscillatory interlayer exchange and magnetoresistance in Fe/Cu multilayers. Physical Review B, 1991, 44, 5355-5357.	1.1	203
4	Dilute-defect magnetism: Origin of magnetism in nanocrystalline CeO_2 . Physical Review B, 2009, 80, .	1.1	129
5	Room temperature ferromagnetism of Co doped CeO_2 diluted magnetic oxide: Effect of oxygen and anisotropy. Applied Physics Letters, 2007, 90, 062510.	1.5	94
6	Strain Engineering of the Magnetocaloric Effect in MnAs Epilayers. Physical Review Letters, 2008, 101, 125503.	2.9	62
7	Room temperature ferromagnetism in Co-doped CeO_2 films on Si(001). Physical Review B, 2007, 75, .	1.1	61
8	Ferromagnetism induced by oxygen and cerium vacancies above the percolation limit in CeO_2 . Journal of Physics Condensed Matter, 2010, 22, 216004.	0.7	59
9	Structure, Composition, and Morphology of Electrodeposited $\text{Co}_x\text{Fe}_{1-x}$ Alloys. Journal of the Electrochemical Society, 1997, 144, 3222-3226.	1.3	50
10	Magnetic multilayers: oscillatory interlayer exchange and giant magnetoresistance. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1712-1716.	1.0	48
11	Mechanical properties of layered InSe and GaSe single crystals. Journal of Applied Physics, 2002, 91, 140.	1.1	48
12	Magnetoresistance of Co-Based multilayered structures. Journal of Magnetism and Magnetic Materials, 1991, 93, 480-484.	1.0	38
13	Covalent grafting of phenylphosphonate groups onto layered silica derived from in situ-leached chrysotile fibers. Journal of Materials Chemistry, 2003, 13, 304-307.	6.7	38
14	Green chemistry preparation of superparamagnetic nanoparticles containing Fe_3O_4 cores in biochar. Journal of Analytical and Applied Pyrolysis, 2015, 116, 42-48.	2.6	37
15	Compositional and magnetic properties of iron nitride thin films. Journal of Applied Physics, 1990, 67, 7514-7519.	1.1	31
16	Valence Evaluation of Cerium in Nanocrystalline CeO_2 Films Electrodeposited on Si Substrates. Journal of the Electrochemical Society, 2011, 159, K27-K33.	1.3	31
17	Spin injection at remanence into III-V spin light-emitting diodes using (Co/Pt) ferromagnetic injectors. Physical Review B, 2012, 86, .	1.1	29
18	Towards compact three-dimensional magnetoelectronics: Magnetoresistance in rolled-up Co/Cu nanomembranes. Applied Physics Letters, 2012, 100, .	1.5	29

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19	Oxygen-vacancy-induced room-temperature magnetization in lamellar V ₂ O ₅ thin films. Journal of Applied Physics, 2014, 116, .	1.1	26
20	Epitaxial growth and magnetic properties of Fe(111) films on Si(111) substrate using a GaSe(001) template. Physical Review B, 2001, 63, .	1.1	25
21	Giant magnetoresistance in electrodeposited Co ₈₇ Fe ₁₃ /Cu compositionally modulated alloys. Journal Physics D: Applied Physics, 1999, 32, 1209-1213.	1.3	24
22	Loss of magnetization induced by doping in CeO ₂ films. Journal of Applied Physics, 2011, 110, .	1.1	24
23	Fe/ZnSe(001) Schottky-barrier height evaluated by photoemission. Applied Physics Letters, 2002, 81, 4553-4555.	1.5	23
24	Resonant tunnel magnetoresistance in epitaxial metal-semiconductor heterostructures. Physical Review B, 2005, 72, .	1.1	23
25	Structural and magnetic properties of iron doped ZrO ₂ . Journal of Alloys and Compounds, 2016, 680, 701-710.	2.8	23
26	Structural and magnetic properties of Fe and Co nanoparticles embedded in powdered Al ₂ O ₃ . Journal of Colloid and Interface Science, 2005, 289, 63-70.	5.0	22
27	Electrodeposition of Fe thin films on Si(111) surfaces in the presence of sodium saccharin. Electrochimica Acta, 2007, 53, 2002-2008.	2.6	22
28	Conductivity in (Ag,Mg)-doped delafossite oxide CuCrO ₂ . Ceramics International, 2018, 44, 14101-14107.	2.3	22
29	Structural and magnetic anisotropies of Fe ²⁺ /ZnSe(001) thin films. Physical Review B, 2004, 70, .	1.1	21
30	Electrodeposition of Nanocrystalline CeO ₂ on Si(001). Journal of the Electrochemical Society, 2009, 156, E199.	1.3	21
31	Goethite (̄-FeOOH) magnetic transition by ESR, Magnetometry and M̄ssbauer. Materials Chemistry and Physics, 2016, 173, 179-185.	2.0	20
32	Wettability effect of graphene-based surfaces on silicon carbide and their influence on hydrophobicity of nanocrystalline cerium oxide films. Journal of Colloid and Interface Science, 2015, 441, 71-77.	5.0	19
33	Oxygen diffusion and vacancy migration thermally-activated govern high-temperature magnetism in ceria. Scientific Reports, 2019, 9, 4708.	1.6	19
34	The evolution of sputtered iron nitride thin films under thermal treatment. Journal of Applied Physics, 1991, 69, 261-267.	1.1	18
35	Interface bonding of a ferromagnetic/semiconductor junction: A photoemission study of Fe ²⁺ /ZnSe(001). Physical Review B, 2006, 73, .	1.1	18
36	Anisotropy of Magnetization and Nanocrystalline Texture in Electrodeposited CeO ₂ Films. Electrochemical and Solid-State Letters, 2011, 14, P9.	2.2	18

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37	Laser irradiation of iron, cobalt, and nickel targets in liquid nitrogen: A facile approach for nitride nanoparticle fabrication of ferromagnetic transition metals. <i>Journal of Alloys and Compounds</i> , 2017, 725, 519-525.	2.8	17
38	Morphology, structure, and magnetism of FeCo thin films electrodeposited on hydrogen-terminated Si(111) surfaces. <i>Journal of Colloid and Interface Science</i> , 2007, 316, 510-516.	5.0	16
39	Tuning giant magnetoresistance in rolled-up Co/Cu nanomembranes by strain engineering. <i>Nanoscale</i> , 2012, 4, 7155.	2.8	16
40	Structural and Chemical Characterization of Fe-Co Alloys Prepared by Electrodeposition. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, C20.	2.2	15
41	Tetragonal zinc-blende MnGa ultra-thin films with high magnetization directly grown on epi-ready GaAs(111) substrates. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	15
42	Tunnel magnetoresistance and Coulomb blockade in a planar assembly of cobalt nanoclusters embedded in TiO ₂ . <i>Journal of Applied Physics</i> , 2007, 101, 014318.	1.1	14
43	Chemical and structural aspects of annealed ZnSe/GaAs(001) heterostructures. <i>Journal of Applied Physics</i> , 2002, 92, 3569-3572.	1.1	12
44	Structure and Magnetism of MnGa Ultra-Thin Films on GaAs(111)B. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 5595-5598.	1.2	12
45	Structure and magnetoresistance of Fe/Cu superlattices grown on Si(111). <i>Journal of Magnetism and Magnetic Materials</i> , 1993, 121, 53-56.	1.0	10
46	Photoemission study of the solid-state interdiffusion in hybrid Fe/ZnSe/GaAs(001) heterostructures. <i>Journal of Applied Physics</i> , 2001, 90, 5973-5978.	1.1	10
47	Thermal Stability of Ultrathin Co/Pt Multilayers. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4885-4892.	1.5	10
48	Magnetization switching and deterministic nucleation in Co/Ni multilayered disks induced by spin-orbit torques. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	10
49	Structural and magnetic properties of iron-tin thin films. <i>Thin Solid Films</i> , 1992, 217, 152-155.	0.8	9
50	The epitaxial growth of evaporated Cu/CaF ₂ bilayers on Si(111). <i>Journal of Applied Physics</i> , 1995, 77, 2831-2833.	1.1	9
51	Structure, Composition, and Morphology of Electrodeposited Co _{0.9} Fe _{0.1} (Cu) Alloys. <i>Journal of the Electrochemical Society</i> , 1997, 144, 3624-3628.	1.3	9
52	Magnetic irreversibility in Fe/Cu multilayers. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 47-57.	0.7	9
53	Microstructure and magnetism of Fe nanoparticles embedded in Al ₂ O ₃ /ZnO matrix. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 428-433.	1.3	9
54	Correlation between tetragonal zinc-blende structure and magnetocrystalline anisotropy of MnGa epilayers on GaAs(111). <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 381, 83-88.	1.0	9

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55	Epitaxial growth of Fe films on structures. <i>Thin Solid Films</i> , 1996, 272, 83-86.	0.8	8
56	Structure and magnetism of electrodeposited ZnSe/Co granular films. <i>Physica B: Condensed Matter</i> , 2002, 320, 199-202.	1.3	8
57	Electrodeposition of ZnO/Fe Granular Films. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, C115.	2.2	8
58	Growth and magnetic properties of MnAs epitaxied on $\text{GaAs}(111)\text{B}$. <i>Journal of Applied Physics</i> , 2006, 100, 093524.	1.1	8
59	Local order and the dependence of magnetization on Co content in V_2O_5 layered films. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	8
60	Single-step formation of Cr_2N nanoparticles by pulsed laser irradiation. <i>Journal of Applied Physics</i> , 2019, 125, 024301.	1.1	8
61	Epitaxial Fe/Cu superlattices on $\text{Si}(111)$. <i>Journal of Applied Physics</i> , 1992, 72, 5682-5686.	1.1	7
62	Surface-enhanced Raman scattering for magnetic semiconductor $\text{ZnSe}:\text{Fe}$ hybrid structures. <i>Physical Review B</i> , 2002, 65, .	1.1	7
63	Magnetism and tunnelling magnetoresistance of Fe nanoparticles embedded in ZnSe epilayers. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 2421-2424.	1.3	7
64	Magnetic and mechanical properties of rolled-up $\text{Au}/\text{Co}/\text{Au}$ nanomembranes with multiple windings. <i>Journal of Applied Physics</i> , 2011, 110, 044326.	1.1	7
65	The role of magnetoelastic and magnetostrictive energies in the magnetization process of MnAs/GaAs epilayers. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 046003.	0.7	7
66	Unveiling ferromagnetism and antiferromagnetism in two dimensions at room temperature. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 283003.	1.3	7
67	Microstructure and magnetoresistance of electrodeposited $(\text{Co}_{0.87}\text{Fe}_{0.13})_x\text{Cu}_{1-x}$ granular alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 198-199, 236-238.	1.0	6
68	Magnetic behavior of $\text{Fe}(001)/\text{ZnSe}(001)/\text{Fe}(001)$ sandwiches grown on $\text{ZnSe}(001)$ epilayer on $\text{GaAs}(001)$. <i>Physica B: Condensed Matter</i> , 2002, 322, 312-314.	1.3	6
69	Highly oriented star-like patterns observed on GaSe epilayers grown on $\text{Si}(111)$. <i>Thin Solid Films</i> , 2006, 515, 1470-1474.	0.8	6
70	Thermal enhancement of the antiferromagnetic exchange coupling between Fe epilayers separated by a crystalline ZnSe spacer. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 9105-9118.	0.7	6
71	Magnetostrictive contribution to Poisson ratio of galfenol. <i>Journal of Applied Physics</i> , 2013, 114, 123915.	1.1	6
72	Effective elastic and magnetoelastic anisotropies for thin films with hexagonal and cubic crystal structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 330, 81-87.	1.0	6

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73	Mn Adsorption on the GaAs(111) (2 \times 2)B Surface: First Principles Studies. Zeitschrift Fur Physikalische Chemie, 2016, 230, 943-954.	1.4	6
74	Influence of Fe and Cu seed layers on the magnetoresistance in Fe/Cu superlattices grown on Si(111) and CaF ₂ (111) /Si(111). Journal of Magnetism and Magnetic Materials, 1996, 156, 391-393.	1.0	5
75	Electrodeposition of ZnSe-Fe and ZnSe-Co Granular Films. Electrochemical and Solid-State Letters, 2002, 5, C11.	2.2	5
76	Iron Silicide Formation from Fe Thin-Film Electrodeposition on Hydrogen-Terminated Si(111). Journal of the Electrochemical Society, 2005, 152, C808.	1.3	5
77	Iron clustering in GaSe epilayers grown on GaAs(111)B. Journal of Physics Condensed Matter, 2006, 18, 1165-1174.	0.7	5
78	Roughness in manganite-based superlattices. Applied Surface Science, 2007, 254, 219-221.	3.1	5
79	Spin-dependent resonant quantum tunneling between magnetic nanoparticles on a macroscopic length scale. Physical Review B, 2011, 83, .	1.1	5
80	Stabilization of perpendicular magnetic anisotropy in CeO ₂ films deposited on Co/Pt multilayers. RSC Advances, 2016, 6, 56785-56789.	1.7	5
81	Spin disorder effect in anomalous Hall effect in MnGa. Journal of Magnetism and Magnetic Materials, 2017, 443, 165-170.	1.0	5
82	Oscillatory interlayer exchange and giant magnetoresistance in magnetic multilayers. AIP Conference Proceedings, 1996, , .	0.3	4
83	Magnetic susceptibility of Fe/Cu multilayers: Ferromagnetic, antiferromagnetic, and spin-glass phases. Journal of Applied Physics, 1998, 83, 7372-7374.	1.1	4
84	Magnetic domains in rolled-up nanomembranes of Co/Pt multilayers with perpendicular magnetic anisotropy. RSC Advances, 2014, 4, 8410.	1.7	4
85	Study of thermally activated reaction between Mn and GaAs(111) surface. Thin Solid Films, 2014, 570, 57-62.	0.8	4
86	Hexagonal Ni ₃₈ Mn ₂₈ Ga ₃₄ alloy films grown on GaAs(111). Intermetallics, 2015, 67, 127-131.	1.8	4
87	Exchange-bias reversal in Mn ²⁺ x Ni ^{1+x} Ga films with antisite disorder. Intermetallics, 2017, 91, 22-30.	1.8	4
88	Evidence of antiferromagnetic phases in discontinuous Fe/CaF ₂ multilayers. Journal of Magnetism and Magnetic Materials, 2001, 231, 337-346.	1.0	3
89	Magnetic and chemical aspects of Cr-based films grown on GaAs(001). Journal of Physics Condensed Matter, 2005, 17, 6805-6812.	0.7	3
90	Magnetoresistance in granular magnetic tunnel junctions with Fe nanoparticles embedded in ZnSe semiconducting epilayer. Journal of Applied Physics, 2008, 103, 123714.	1.1	3

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91	Transformation of epitaxial NiMnGa/InGaAs nanomembranes grown on GaAs substrates into freestanding microtubes. RSC Advances, 2016, 6, 72568-72574.	1.7	3
92	Chromium nanostructure formation on the GaAs(111) surface: First principles studies. Applied Surface Science, 2018, 455, 1078-1085.	3.1	3
93	Structural change and heteroepitaxy induced by rapid thermal annealing of CaF ₂ films on Si(111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 2437-2441.	0.9	2
94	Magnetic properties of Fe clustering in GaSe epilayers on GaAs(111)B. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1551-1553.	1.0	2
95	Field-induced lattice deformation contribution to the magnetic anisotropy. Journal of Applied Physics, 2012, 112, 103920.	1.1	2
96	Martensite transformations in Mn ₂ NiGa thin films grown on GaAs substrates. Journal Physics D: Applied Physics, 2016, 49, 465002.	1.3	2
97	The analysis of semiconductor thin films with complementary Mossbauer scattering-RBS, channeling and nuclear reaction. Nuclear Instruments & Methods in Physics Research B, 1990, 45, 627-631.	0.6	1
98	Thermal evolution and aging of Co-sputtered iron-tin thin films. Hyperfine Interactions, 1991, 67, 493-499.	0.2	1
99	Growth and Properties of Electrodeposited ZnSe-Fe and ZnSe-Co Granular Films. Journal of the Electrochemical Society, 2003, 150, C625.	1.3	1
100	CeAlO ₃ Nanowire Arrays in Porous Anodic Alumina Templates. Electrochemical and Solid-State Letters, 2010, 13, K100.	2.2	1
101	Monte Carlo simulations of magnetization state of ellipsoidal CoCu particles in disordered self-assembled arrays. Journal of Materials Research, 2016, 31, 2058-2064.	1.2	1
102	Ni ₇₄ Mn ₂₀ Ga ₆ alloys grown by molecular beam epitaxy on GaAs/AlAs/In _{0.2} Ga _{0.8} As (001). Thin Solid Films, 2017, 638, 298-304.	0.8	1
103	Stabilization and tuning of perpendicular magnetic anisotropy in room-temperature ferromagnetic transparent CeO ₂ films. Journal of Applied Physics, 2019, 126, 183903.	1.1	1
104	RESISTIVITY OF THE REENTRANT SYSTEMS NiMn AND a-FeZr NEAR THE FERROMAGNETIC PHASE TRANSITION. Journal De Physique Colloque, 1988, 49, C8-1131-C8-1132.	0.2	1
105	Annealing Effects on Nanoscratch Behavior of CaF ₂ Thin Films Growth on Si(111). Materials Research Society Symposia Proceedings, 1998, 522, 457.	0.1	0
106	Magnetic irreversibility of discontinuous Fe/CaF ₂ multilayers with thermal annealing. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1738-1739.	1.0	0
107	Pronounced pre-martensitic anomaly in the magnetization on Ni ₂ MnGa thin films. Materials Research Express, 2018, 5, 056406.	0.8	0
108	Effect of Thermal Annealing on the Stoichiometry and Magnetism of MnGa Thin Films. Journal of Physical Chemistry C, 2019, 123, 5583-5590.	1.5	0