

# Dante Homero Mosca

## List of Publications by Citations

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105  
papers

2,391  
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23  
h-index

46  
g-index

108  
ext. papers

2,517  
ext. citations

3.4  
avg, IF

4.15  
L-index

#	Paper	IF	Citations
105	Oscillatory interlayer coupling and giant magnetoresistance in Co/Cu multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1991</b> , 94, L1-L5	2.8	598
104	Nickel nanoparticles obtained by a modified polyol process: synthesis, characterization, and magnetic properties. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 311, 461-8	9.3	196
103	Oscillatory interlayer exchange and magnetoresistance in Fe/Cu multilayers. <i>Physical Review B</i> , <b>1991</b> , 44, 5355-5357	3.3	193
102	Dilute-defect magnetism: Origin of magnetism in nanocrystalline CeO <sub>2</sub> . <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	121
101	Room temperature ferromagnetism of Co doped CeO <sub>2</sub> diluted magnetic oxide: Effect of oxygen and anisotropy. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 062510	3.4	91
100	Room temperature ferromagnetism in Co-doped CeO <sub>2</sub> films on Si(001). <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	56
99	Strain engineering of the magnetocaloric effect in MnAs epilayers. <i>Physical Review Letters</i> , <b>2008</b> , 101, 125503	7.4	53
98	Ferromagnetism induced by oxygen and cerium vacancies above the percolation limit in CeO <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 216004	1.8	52
97	Structure, Composition, and Morphology of Electrodeposited Co x Fe <sub>1-x</sub> Alloys. <i>Journal of the Electrochemical Society</i> , <b>1997</b> , 144, 3222-3226	3.9	48
96	Magnetic multilayers: oscillatory interlayer exchange and giant magnetoresistance. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 104-107, 1712-1716	2.8	43
95	Mechanical properties of layered InSe and GaSe single crystals. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 140	2.5	38
94	Magnetoresistance of Co-Based multilayered structures. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1991</b> , 93, 480-484	2.8	37
93	Covalent grafting of phenylphosphonate groups onto layered silica derived from in situ-leached chrysotile fibers. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 304-307		36
92	Compositional and magnetic properties of iron nitride thin films. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 7514-7519	2.5	28
91	Green chemistry preparation of superparamagnetic nanoparticles containing Fe <sub>3</sub> O <sub>4</sub> cores in biochar. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2015</b> , 116, 42-48	6	27
90	Valence Evaluation of Cerium in Nanocrystalline CeO <sub>2</sub> Films Electrodeposited on Si Substrates. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 159, K27-K33	3.9	27
89	Towards compact three-dimensional magnetoelectronics Magnetoresistance in rolled-up Co/Cu nanomembranes. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 022409	3.4	26

88	Epitaxial growth and magnetic properties of Fe(111) films on Si(111) substrate using a GaSe(001) template. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	24
87	Loss of magnetization induced by doping in CeO <sub>2</sub> films. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 113902	2.5	23
86	Spin injection at remanence into III-V spin light-emitting diodes using (Co/Pt) ferromagnetic injectors. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	23
85	Resonant tunnel magnetoresistance in epitaxial metal-semiconductor heterostructures. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	23
84	Fe/ZnSe(001) Schottky-barrier height evaluated by photoemission. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4553-4555	3.4	23
83	Giant magnetoresistance in electrodeposited Co <sub>87</sub> Fe <sub>13</sub> /Cu compositionally modulated alloys. <i>Journal Physics D: Applied Physics</i> , <b>1999</b> , 32, 1209-1213	3	23
82	Electrodeposition of Fe thin films on Si(111) surfaces in the presence of sodium saccharin. <i>Electrochimica Acta</i> , <b>2007</b> , 53, 2002-2008	6.7	21
81	Electrodeposition of Nanocrystalline CeO <sub>2</sub> on Si(001). <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, E199	3.9	20
80	Structural and magnetic properties of Fe and Co nanoparticles embedded in powdered Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 289, 63-70	9.3	20
79	Structural and magnetic anisotropies of Fe <sub>1-x</sub> Zn <sub>x</sub> Se(001) thin films. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	19
78	Interface bonding of a ferromagnetic/semiconductor junction: A photoemission study of Fe <sub>1-x</sub> Zn <sub>x</sub> Se(001). <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	18
77	Structural and magnetic properties of iron doped ZrO <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 680, 701-710	5.7	18
76	Wettability effect of graphene-based surfaces on silicon carbide and their influence on hydrophobicity of nanocrystalline cerium oxide films. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 441, 71-7	9.3	16
75	The evolution of sputtered iron nitride thin films under thermal treatment. <i>Journal of Applied Physics</i> , <b>1991</b> , 69, 261-267	2.5	16
74	Conductivity in (Ag,Mg)-doped delafossite oxide CuCrO <sub>2</sub> . <i>Ceramics International</i> , <b>2018</b> , 44, 14101-14107	5.1	15
73	Goethite (FeOOH) magnetic transition by ESR, Magnetometry and Mössbauer. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 173, 179-185	4.4	15
72	Tetragonal zinc-blende MnGa ultra-thin films with high magnetization directly grown on epi-ready GaAs(111) substrates. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 102408	3.4	15
71	Oxygen-vacancy-induced room-temperature magnetization in lamellar V <sub>2</sub> O <sub>5</sub> thin films. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 163904	2.5	15

70	Anisotropy of Magnetization and Nanocrystalline Texture in Electrodeposited CeO <sub>2</sub> Films. <i>Electrochemical and Solid-State Letters</i> , <b>2011</b> , 14, P9		15
69	Tunnel magnetoresistance and Coulomb blockade in a planar assembly of cobalt nanoclusters embedded in TiO <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 014318	2.5	14
68	Structural and Chemical Characterization of Fe-Co Alloys Prepared by Electrodeposition. <i>Electrochemical and Solid-State Letters</i> , <b>2001</b> , 4, C20		14
67	Oxygen diffusion and vacancy migration thermally-activated govern high-temperature magnetism in ceria. <i>Scientific Reports</i> , <b>2019</b> , 9, 4708	4.9	13
66	Tuning giant magnetoresistance in rolled-up Co-Cu nanomembranes by strain engineering. <i>Nanoscale</i> , <b>2012</b> , 4, 7155-60	7.7	13
65	Morphology, structure, and magnetism of FeCo thin films electrodeposited on hydrogen-terminated Si(111) surfaces. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 316, 510-6	9.3	13
64	Chemical and structural aspects of annealed ZnSe/GaAs(001) heterostructures. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 3569-3572	2.5	12
63	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> , <b>2017</b> , 725, 519-525	5.7	11
62	Structure and Magnetism of MnGa Ultra-Thin Films on GaAs(111)B. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 5595-5598	2	10
61	Photoemission study of the solid-state interdiffusion in hybrid Fe/ZnSe/GaAs(001) heterostructures. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 5973-5978	2.5	10
60	Correlation between tetragonal zinc-blende structure and magnetocrystalline anisotropy of MnGa epilayers on GaAs(111). <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 381, 83-88	2.8	9
59	Structure, Composition, and Morphology of Electrodeposited Co <sub>0.9</sub> Fe <sub>0.1</sub> (Cu) Alloys. <i>Journal of the Electrochemical Society</i> , <b>1997</b> , 144, 3624-3628	3.9	9
58	Structure and magnetoresistance of Fe/Cu superlattices grown on Si(111). <i>Journal of Magnetism and Magnetic Materials</i> , <b>1993</b> , 121, 53-56	2.8	9
57	Growth and magnetic properties of MnAs epitaxied on GaAs(111)B. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 093524	2.5	8
56	Electrodeposition of ZnO-Fe Granular Films. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, C115		8
55	Microstructure and magnetism of Fe nanoparticles embedded in Al <sub>2</sub> O <sub>3</sub> /ZnO matrix. <i>Journal Physics D: Applied Physics</i> , <b>2003</b> , 36, 428-433	3	8
54	Magnetic irreversibility in Fe/Cu multilayers. <i>Journal of Physics Condensed Matter</i> , <b>1999</b> , 11, 47-57	1.8	8
53	The epitaxial growth of evaporated Cu/CaF <sub>2</sub> bilayers on Si(111). <i>Journal of Applied Physics</i> , <b>1995</b> , 77, 2831-2833	2.5	8

52	Epitaxial growth of Fe films on structures. <i>Thin Solid Films</i> , <b>1996</b> , 272, 83-86	2.2	8
51	Structural and magnetic properties of iron-tin thin films. <i>Thin Solid Films</i> , <b>1992</b> , 217, 152-155	2.2	8
50	Surface-enhanced Raman scattering for magnetic semiconductor ZnSe:Fe hybrid structures. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	7
49	Single-step formation of Cr <sub>2</sub> N nanoparticles by pulsed laser irradiation. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 024301	2.5	6
48	Mn Adsorption on the GaAs(111)B Surface: First Principles Studies. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2016</b> , 230, 943-954	3.1	6
47	The role of magnetoelastic and magnetostrictive energies in the magnetization process of MnAs/GaAs epilayers. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 046003	1.8	6
46	Magnetic and mechanical properties of rolled-up Au/Co/Au nanomembranes with multiple windings. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 044326	2.5	6
45	Thermal enhancement of the antiferromagnetic exchange coupling between Fe epilayers separated by a crystalline ZnSe spacer. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 9105-9118	1.8	6
44	Magnetic behavior of Fe(001)/ZnSe(001)/Fe(001) sandwiches grown on ZnSe(001) epilayer on GaAs(001). <i>Physica B: Condensed Matter</i> , <b>2002</b> , 322, 312-314	2.8	6
43	Microstructure and magnetoresistance of electrodeposited (Co <sub>0.87</sub> Fe <sub>0.13</sub> ) <sub>x</sub> Cu <sub>1-x</sub> granular alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 198-199, 236-238	2.8	6
42	Epitaxial Fe/Cu superlattices on Si(111). <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 5682-5686	2.5	6
41	Spin-dependent resonant quantum tunneling between magnetic nanoparticles on a macroscopic length scale. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	5
40	Roughness in manganite-based superlattices. <i>Applied Surface Science</i> , <b>2007</b> , 254, 219-221	6.7	5
39	Iron clustering in GaSe epilayers grown on GaAs(111)B. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 1165-1174	1.8	5
38	Magnetism and tunnelling magnetoresistance of Fe nanoparticles embedded in ZnSe epilayers. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, 2421-2424	3	5
37	Highly oriented star-like patterns observed on GaSe epilayers grown on Si(111). <i>Thin Solid Films</i> , <b>2006</b> , 515, 1470-1474	2.2	5
36	Structure and magnetism of electrodeposited ZnSe <sub>1-x</sub> Co <sub>x</sub> granular films. <i>Physica B: Condensed Matter</i> , <b>2002</b> , 320, 199-202	2.8	5
35	Electrodeposition of ZnSe-Fe and ZnSe-Co Granular Films. <i>Electrochemical and Solid-State Letters</i> , <b>2002</b> , 5, C11		5

34	Stabilization of perpendicular magnetic anisotropy in CeO <sub>2</sub> films deposited on Co/Pt multilayers. <i>RSC Advances</i> , <b>2016</b> , 6, 56785-56789	3.7	4
33	Study of thermally activated reaction between Mn and GaAs(111) surface. <i>Thin Solid Films</i> , <b>2014</b> , 570, 57-62	2.2	4
32	Magnetostrictive contribution to Poisson ratio of galfenol. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 123915	2.5	4
31	Effective elastic and magnetoelastic anisotropies for thin films with hexagonal and cubic crystal structures. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 330, 81-87	2.8	4
30	Local order and the dependence of magnetization on Co content in V <sub>2</sub> O <sub>5</sub> layered films. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 103903	2.5	4
29	Hexagonal Ni <sub>38</sub> Mn <sub>28</sub> Ga <sub>34</sub> alloy films grown on GaAs(111). <i>Intermetallics</i> , <b>2015</b> , 67, 127-131	3.5	4
28	Iron Silicide Formation from Fe Thin-Film Electrodeposition on Hydrogen-Terminated Si(111). <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, C808	3.9	4
27	Influence of Fe and Cu seed layers on the magnetoresistance in Fe/Cu superlattices grown on Si(111) and CaF <sub>2</sub> (111)/Si(111). <i>Journal of Magnetism and Magnetic Materials</i> , <b>1996</b> , 156, 391-393	2.8	4
26	Chromium nanostructure formation on the GaAs(111) surface: First principles studies. <i>Applied Surface Science</i> , <b>2018</b> , 455, 1078-1085	6.7	3
25	Magnetic domains in rolled-up nanomembranes of Co/Pt multilayers with perpendicular magnetic anisotropy. <i>RSC Advances</i> , <b>2014</b> , 4, 8410	3.7	3
24	Magnetoresistance in granular magnetic tunnel junctions with Fe nanoparticles embedded in ZnSe semiconducting epilayer. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 123714	2.5	3
23	Magnetic and chemical aspects of Cr-based films grown on GaAs(001). <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, 6805-6812	1.8	3
22	Evidence of antiferromagnetic phases in discontinuous Fe/CaF <sub>2</sub> multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2001</b> , 231, 337-346	2.8	3
21	Magnetic susceptibility of Fe/Cu multilayers: Ferromagnetic, antiferromagnetic, and spin-glass phases. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 7372-7374	2.5	3
20	Transformation of epitaxial NiMnGa/InGaAs nanomembranes grown on GaAs substrates into freestanding microtubes. <i>RSC Advances</i> , <b>2016</b> , 6, 72568-72574	3.7	2
19	Martensite transformations in Mn <sub>2</sub> NiGa thin films grown on GaAs substrates. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 465002	3	2
18	Spin disorder effect in anomalous Hall effect in MnGa. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 443, 165-170	2.8	2
17	Exchange-bias reversal in Mn <sub>2-x</sub> Ni <sub>1+x</sub> Ga films with antisite disorder. <i>Intermetallics</i> , <b>2017</b> , 91, 22-30	3.5	2

16	Field-induced lattice deformation contribution to the magnetic anisotropy. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 103920	2.5	2
15	Magnetic properties of Fe clustering in GaSe epilayers on GaAs(1 1 1)B. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 1551-1553	2.8	2
14	Structural change and heteroepitaxy induced by rapid thermal annealing of CaF <sub>2</sub> films on Si(111). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1998</b> , 16, 2437-2441	2.9	2
13	Thermal Stability of Ultrathin Co/Pt Multilayers. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 4885-4892	3.8	2
12	Ni <sub>74</sub> Mn <sub>20</sub> Ga <sub>6</sub> alloys grown by molecular beam epitaxy on GaAs/AlAs/In <sub>0.2</sub> Ga <sub>0.8</sub> As (001). <i>Thin Solid Films</i> , <b>2017</b> , 638, 298-304	2.2	1
11	CeAlO <sub>3</sub> Nanowire Arrays in Porous Anodic Alumina Templates. <i>Electrochemical and Solid-State Letters</i> , <b>2010</b> , 13, K100		1
10	Growth and Properties of Electrodeposited ZnSe-Fe and ZnSe-Co Granular Films. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, C625	3.9	1
9	Thermal evolution and aging of Co-sputtered iron-tin thin films. <i>Hyperfine Interactions</i> , <b>1991</b> , 67, 493-499.	3.8	1
8	The analysis of semiconductor thin films with complementary Mössbauer scattering-RBS, channeling and nuclear reaction. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1990</b> , 45, 627-631	1.2	1
7	Monte Carlo simulations of magnetization state of ellipsoidal CoCu particles in disordered self-assembled arrays. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 2058-2064	2.5	1
6	Stabilization and tuning of perpendicular magnetic anisotropy in room-temperature ferromagnetic transparent CeO <sub>2</sub> films. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 183903	2.5	1
5	Magnetization switching and deterministic nucleation in Co/Ni multilayered disks induced by spin-orbit torques. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 032410	3.4	1
4	Effect of Thermal Annealing on the Stoichiometry and Magnetism of MnGa Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 5583-5590	3.8	
3	Pronounced pre-martensitic anomaly in the magnetization on Ni <sub>2</sub> MnGa thin films. <i>Materials Research Express</i> , <b>2018</b> , 5, 056406	1.7	
2	Magnetic irreversibility of discontinuous Fe/CaF <sub>2</sub> multilayers with thermal annealing. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2001</b> , 226-230, 1738-1739	2.8	
1	Annealing Effects on Nanoscratch Behavior of CaF <sub>2</sub> Thin Films Growth on Si(111). <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 522, 457		