

Dante Homero Mosca

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

2,391
citations

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	Thermal Stability of Ultrathin Co/Pt Multilayers. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 4885-4892	3.8	2
104	Magnetization switching and deterministic nucleation in Co/Ni multilayered disks induced by spin-orbit torques. <i>Applied Physics Letters</i> , 2021 , 119, 032410	3.4	1
103	Single-step formation of Cr ₂ N nanoparticles by pulsed laser irradiation. <i>Journal of Applied Physics</i> , 2019 , 125, 024301	2.5	6
102	Oxygen diffusion and vacancy migration thermally-activated govern high-temperature magnetism in ceria. <i>Scientific Reports</i> , 2019 , 9, 4708	4.9	13
101	Effect of Thermal Annealing on the Stoichiometry and Magnetism of MnGa Thin Films. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5583-5590	3.8	
100	Stabilization and tuning of perpendicular magnetic anisotropy in room-temperature ferromagnetic transparent CeO ₂ films. <i>Journal of Applied Physics</i> , 2019 , 126, 183903	2.5	1
99	Pronounced pre-martensitic anomaly in the magnetization on Ni ₂ MnGa thin films. <i>Materials Research Express</i> , 2018 , 5, 056406	1.7	
98	Conductivity in (Ag,Mg)-doped delafossite oxide CuCrO ₂ . <i>Ceramics International</i> , 2018 , 44, 14101-14107	5.1	15
97	Chromium nanostructure formation on the GaAs(111) surface: First principles studies. <i>Applied Surface Science</i> , 2018 , 455, 1078-1085	6.7	3
96	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	5.7	11
95	Spin disorder effect in anomalous Hall effect in MnGa. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 443, 165-170	2.8	2
94	Ni ₇₄ Mn ₂₀ Ga ₆ alloys grown by molecular beam epitaxy on GaAs/AlAs/In _{0.2} Ga _{0.8} As (001). <i>Thin Solid Films</i> , 2017 , 638, 298-304	2.2	1
93	Exchange-bias reversal in Mn ₂ Ni _{1+x} Ga films with antisite disorder. <i>Intermetallics</i> , 2017 , 91, 22-30	3.5	2
92	Transformation of epitaxial NiMnGa/InGaAs nanomembranes grown on GaAs substrates into freestanding microtubes. <i>RSC Advances</i> , 2016 , 6, 72568-72574	3.7	2
91	Martensite transformations in Mn ₂ NiGa thin films grown on GaAs substrates. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 465002	3	2
90	Mn Adsorption on the GaAs(111) Surface: First Principles Studies. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016 , 230, 943-954	3.1	6
89	Stabilization of perpendicular magnetic anisotropy in CeO ₂ films deposited on Co/Pt multilayers. <i>RSC Advances</i> , 2016 , 6, 56785-56789	3.7	4

88	Goethite (FeOOH) magnetic transition by ESR, Magnetometry and Mössbauer. <i>Materials Chemistry and Physics</i> , 2016 , 173, 179-185	4.4	15
87	Monte Carlo simulations of magnetization state of ellipsoidal CoCu particles in disordered self-assembled arrays. <i>Journal of Materials Research</i> , 2016 , 31, 2058-2064	2.5	1
86	Structural and magnetic properties of iron doped ZrO_2 . <i>Journal of Alloys and Compounds</i> , 2016 , 680, 701-710	5.7	18
85	Green chemistry preparation of superparamagnetic nanoparticles containing Fe_3O_4 cores in biochar. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 116, 42-48	6	27
84	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> , 2015 , 441, 71-7	9.3	16
83	Local order and the dependence of magnetization on Co content in V_2O_5 layered films. <i>Journal of Applied Physics</i> , 2015 , 118, 103903	2.5	4
82	Hexagonal $\text{Ni}_{38}\text{Mn}_{28}\text{Ga}_{34}$ alloy films grown on GaAs(111). <i>Intermetallics</i> , 2015 , 67, 127-131	3.5	4
81	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	2.8	9
80	Magnetic domains in rolled-up nanomembranes of Co/Pt multilayers with perpendicular magnetic anisotropy. <i>RSC Advances</i> , 2014 , 4, 8410	3.7	3
79	Study of thermally activated reaction between Mn and GaAs(111) surface. <i>Thin Solid Films</i> , 2014 , 570, 57-62	2.2	4
78	Oxygen-vacancy-induced room-temperature magnetization in lamellar V_2O_5 thin films. <i>Journal of Applied Physics</i> , 2014 , 116, 163904	2.5	15
77	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	1.8	6
76	Magnetostrictive contribution to Poisson ratio of galfenol. <i>Journal of Applied Physics</i> , 2013 , 114, 123915	2.5	4
75	Structure and Magnetism of MnGa Ultra-Thin Films on GaAs(111)B. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 5595-5598	2	10
74	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, 102408	3.4	15
73	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	2.8	4
72	Field-induced lattice deformation contribution to the magnetic anisotropy. <i>Journal of Applied Physics</i> , 2012 , 112, 103920	2.5	2
71	Towards compact three-dimensional magnetoelectronics: Magnetoresistance in rolled-up Co/Cu nanomembranes. <i>Applied Physics Letters</i> , 2012 , 100, 022409	3.4	26

70	Tuning giant magnetoresistance in rolled-up Co-Cu nanomembranes by strain engineering. <i>Nanoscale</i> , 2012 , 4, 7155-60	7.7	13
69	Spin injection at remanence into III-V spin light-emitting diodes using (Co/Pt) ferromagnetic injectors. <i>Physical Review B</i> , 2012 , 86,	3.3	23
68	Magnetic and mechanical properties of rolled-up Au/Co/Au nanomembranes with multiple windings. <i>Journal of Applied Physics</i> , 2011 , 110, 044326	2.5	6
67	Spin-dependent resonant quantum tunneling between magnetic nanoparticles on a macroscopic length scale. <i>Physical Review B</i> , 2011 , 83,	3.3	5
66	Loss of magnetization induced by doping in CeO ₂ films. <i>Journal of Applied Physics</i> , 2011 , 110, 113902	2.5	23
65	Valence Evaluation of Cerium in Nanocrystalline CeO ₂ Films Electrodeposited on Si Substrates. <i>Journal of the Electrochemical Society</i> , 2011 , 159, K27-K33	3.9	27
64	Anisotropy of Magnetization and Nanocrystalline Texture in Electrodeposited CeO ₂ Films. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, P9		15
63	CeAlO ₃ Nanowire Arrays in Porous Anodic Alumina Templates. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, K100		1
62	Ferromagnetism induced by oxygen and cerium vacancies above the percolation limit in CeO ₂ . <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 216004	1.8	52
61	Dilute-defect magnetism: Origin of magnetism in nanocrystalline CeO ₂ . <i>Physical Review B</i> , 2009 , 80,	3.3	121
60	Electrodeposition of Nanocrystalline CeO ₂ on Si(001). <i>Journal of the Electrochemical Society</i> , 2009 , 156, E199	3.9	20
59	Strain engineering of the magnetocaloric effect in MnAs epilayers. <i>Physical Review Letters</i> , 2008 , 101, 125503	7.4	53
58	Magnetoresistance in granular magnetic tunnel junctions with Fe nanoparticles embedded in ZnSe semiconducting epilayer. <i>Journal of Applied Physics</i> , 2008 , 103, 123714	2.5	3
57	Room temperature ferromagnetism in Co-doped CeO ₂ films on Si(001). <i>Physical Review B</i> , 2007 , 75,	3.3	56
56	Room temperature ferromagnetism of Co doped CeO ₂ Diluted magnetic oxide: Effect of oxygen and anisotropy. <i>Applied Physics Letters</i> , 2007 , 90, 062510	3.4	91
55	Roughness in manganite-based superlattices. <i>Applied Surface Science</i> , 2007 , 254, 219-221	6.7	5
54	Electrodeposition of Fe thin films on Si(111) surfaces in the presence of sodium saccharin. <i>Electrochimica Acta</i> , 2007 , 53, 2002-2008	6.7	21
53	Nickel nanoparticles obtained by a modified polyol process: synthesis, characterization, and magnetic properties. <i>Journal of Colloid and Interface Science</i> , 2007 , 311, 461-8	9.3	196

52	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, 510-6	9.3	13
51	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	2.5	14
50	Magnetism and tunnelling magnetoresistance of Fe nanoparticles embedded in ZnSe epilayers. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 2421-2424	3	5
49	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	1.8	6
48	Interface bonding of a ferromagnetic/semiconductor junction: A photoemission study of Fe ₂ ZnSe(001). <i>Physical Review B</i> , 2006 , 73,	3.3	18
47	Iron clustering in GaSe epilayers grown on GaAs(111)B. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 1165-1174	1.8	5
46	Growth and magnetic properties of MnAs epitaxied on GaAs(111)B. <i>Journal of Applied Physics</i> , 2006 , 100, 093524	2.5	8
45	Highly oriented star-like patterns observed on GaSe epilayers grown on Si(111). <i>Thin Solid Films</i> , 2006 , 515, 1470-1474	2.2	5
44	Resonant tunnel magnetoresistance in epitaxial metal-semiconductor heterostructures. <i>Physical Review B</i> , 2005 , 72,	3.3	23
43	Iron Silicide Formation from Fe Thin-Film Electrodeposition on Hydrogen-Terminated Si(111). <i>Journal of the Electrochemical Society</i> , 2005 , 152, C808	3.9	4
42	Structural and magnetic properties of Fe and Co nanoparticles embedded in powdered Al ₂ O ₃ . <i>Journal of Colloid and Interface Science</i> , 2005 , 289, 63-70	9.3	20
41	Magnetic and chemical aspects of Cr-based films grown on GaAs(001). <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 6805-6812	1.8	3
40	Structural and magnetic anisotropies of Fe ₂ ZnSe(001) thin films. <i>Physical Review B</i> , 2004 , 70,	3.3	19
39	Electrodeposition of ZnO-Fe Granular Films. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, C115		8
38	Magnetic properties of Fe clustering in GaSe epilayers on GaAs(1 1 1)B. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1551-1553	2.8	2
37	Growth and Properties of Electrodeposited ZnSe-Fe and ZnSe-Co Granular Films. <i>Journal of the Electrochemical Society</i> , 2003 , 150, C625	3.9	1
36	Covalent grafting of phenylphosphonate groups onto layered silica derived from in situ-leached chrysotile fibers. <i>Journal of Materials Chemistry</i> , 2003 , 13, 304-307		36
35	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	3	8

34	Structure and magnetism of electrodeposited ZnSe _{1-x} Co _x granular films. <i>Physica B: Condensed Matter</i> , 2002 , 320, 199-202	2.8	5
33	Magnetic behavior of Fe(001)/ZnSe(001)/Fe(001) sandwiches grown on ZnSe(001) epilayer on GaAs(001). <i>Physica B: Condensed Matter</i> , 2002 , 322, 312-314	2.8	6
32	Mechanical properties of layered InSe and GaSe single crystals. <i>Journal of Applied Physics</i> , 2002 , 91, 140	2.5	38
31	Surface-enhanced Raman scattering for magnetic semiconductor ZnSe:Fe hybrid structures. <i>Physical Review B</i> , 2002 , 65,	3.3	7
30	Fe/ZnSe(001) Schottky-barrier height evaluated by photoemission. <i>Applied Physics Letters</i> , 2002 , 81, 4553-4555	3.4	23
29	Electrodeposition of ZnSe-Fe and ZnSe-Co Granular Films. <i>Electrochemical and Solid-State Letters</i> , 2002 , 5, C11		5
28	Chemical and structural aspects of annealed ZnSe/GaAs(001) heterostructures. <i>Journal of Applied Physics</i> , 2002 , 92, 3569-3572	2.5	12
27	Epitaxial growth and magnetic properties of Fe(111) films on Si(111) substrate using a GaSe(001) template. <i>Physical Review B</i> , 2001 , 63,	3.3	24
26	Magnetic irreversibility of discontinuous Fe/CaF ₂ multilayers with thermal annealing. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 1738-1739	2.8	
25	Evidence of antiferromagnetic phases in discontinuous Fe/CaF ₂ multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 231, 337-346	2.8	3
24	Photoemission study of the solid-state interdiffusion in hybrid Fe/ZnSe/GaAs(001) heterostructures. <i>Journal of Applied Physics</i> , 2001 , 90, 5973-5978	2.5	10
23	Structural and Chemical Characterization of Fe-Co Alloys Prepared by Electrodeposition. <i>Electrochemical and Solid-State Letters</i> , 2001 , 4, C20		14
22	Giant magnetoresistance in electrodeposited Co ₈₇ Fe ₁₃ /Cu compositionally modulated alloys. <i>Journal Physics D: Applied Physics</i> , 1999 , 32, 1209-1213	3	23
21	Magnetic irreversibility in Fe/Cu multilayers. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 47-57	1.8	8
20	Microstructure and magnetoresistance of electrodeposited (Co _{0.87} Fe _{0.13}) _x Cu _{1-x} granular alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 198-199, 236-238	2.8	6
19	Structural change and heteroepitaxy induced by rapid thermal annealing of CaF ₂ films on Si(111). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1998 , 16, 2437-2441	2.9	2
18	Magnetic susceptibility of Fe/Cu multilayers: Ferromagnetic, antiferromagnetic, and spin-glass phases. <i>Journal of Applied Physics</i> , 1998 , 83, 7372-7374	2.5	3
17	Annealing Effects on Nanoscratch Behavior of CaF ₂ Thin Films Growth on Si(111). <i>Materials Research Society Symposia Proceedings</i> , 1998 , 522, 457		

16	Structure, Composition, and Morphology of Electrodeposited $\text{Co}_{0.9}\text{Fe}_{0.1}$ (Cu) Alloys. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 3624-3628	3.9	9
15	Structure, Composition, and Morphology of Electrodeposited $\text{Co}_x\text{Fe}_{1-x}$ Alloys. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 3222-3226	3.9	48
14	Influence of Fe and Cu seed layers on the magnetoresistance in Fe/Cu superlattices grown on Si(111) and $\text{CaF}_2(111)/\text{Si}(111)$. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 156, 391-393	2.8	4
13	Epitaxial growth of Fe films on structures. <i>Thin Solid Films</i> , 1996 , 272, 83-86	2.2	8
12	The epitaxial growth of evaporated Cu/ CaF_2 bilayers on Si(111). <i>Journal of Applied Physics</i> , 1995 , 77, 2831-2833	2.5	8
11	Structure and magnetoresistance of Fe/Cu superlattices grown on Si(111). <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 121, 53-56	2.8	9
10	Epitaxial Fe/Cu superlattices on Si(111). <i>Journal of Applied Physics</i> , 1992 , 72, 5682-5686	2.5	6
9	Structural and magnetic properties of iron-tin thin films. <i>Thin Solid Films</i> , 1992 , 217, 152-155	2.2	8
8	Magnetic multilayers: oscillatory interlayer exchange and giant magnetoresistance. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 1712-1716	2.8	43
7	Thermal evolution and aging of Co-sputtered iron-tin thin films. <i>Hyperfine Interactions</i> , 1991 , 67, 493-499.	2.8	1
6	Oscillatory interlayer coupling and giant magnetoresistance in Co/Cu multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 94, L1-L5	2.8	598
5	Magnetoresistance of Co-Based multilayered structures. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 93, 480-484	2.8	37
4	The evolution of sputtered iron nitride thin films under thermal treatment. <i>Journal of Applied Physics</i> , 1991 , 69, 261-267	2.5	16
3	Oscillatory interlayer exchange and magnetoresistance in Fe/Cu multilayers. <i>Physical Review B</i> , 1991 , 44, 5355-5357	3.3	193
2	The analysis of semiconductor thin films with complementary Mössbauer scattering-RBS, channeling and nuclear reaction. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1990 , 45, 627-631	1.2	1
1	Compositional and magnetic properties of iron nitride thin films. <i>Journal of Applied Physics</i> , 1990 , 67, 7514-7519	2.5	28