

Jose I. MartÃ-n

List of Publications by Year in descending order

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121
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#	ARTICLE	IF	CITATIONS
1	3D magnetic configuration of ferrimagnetic multilayers with competing interactions visualized by soft X-ray vector tomography. <i>Communications Physics</i> , 2022, 5, .	2.0	4
2	Two-Step Resist Deposition of E-Beam Patterned Thick Py Nanostructures for X-ray Microscopy. <i>Micromachines</i> , 2022, 13, 204.	1.4	1
3	Planar refraction and lensing of highly confined polaritons in anisotropic media. <i>Nature Communications</i> , 2021, 12, 4325.	5.8	48
4	Chiral asymmetry detected in a 2D array of permalloy square nanomagnets using circularly polarized x-ray resonant magnetic scattering. <i>Nanotechnology</i> , 2020, 31, 025702.	1.3	3
5	Van der Waals Semiconductors: Infrared Permittivity of the Biaxial van der Waals Semiconductor In_2MoO_7 from Near- and Far-Field Correlative Studies (<i>Adv. Mater.</i> 29/2020). <i>Advanced Materials</i> , 2020, 32, 2070220.	11.1	5
6	Infrared Permittivity of the Biaxial van der Waals Semiconductor In_2MoO_7 from Near- and Far-Field Correlative Studies. <i>Advanced Materials</i> , 2020, 32, e1908176.	11.1	99
7	Revealing 3D magnetization of thin films with soft X-ray tomography: magnetic singularities and topological charges. <i>Nature Communications</i> , 2020, 11, 6382.	5.8	29
8	Tailoring block copolymer nanoporous thin films with acetic acid as a small guest molecule. <i>Polymer International</i> , 2019, 68, 1914-1920.	1.6	4
9	Tunable ferromagnetic resonance in coupled trilayers with crossed in-plane and perpendicular magnetic anisotropies. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	16
10	Topologically protected superconducting ratchet effect generated by spin-ice nanomagnets. <i>Nanotechnology</i> , 2019, 30, 244003.	1.3	9
11	Polymer porous thin films obtained by direct spin coating. <i>Polymer International</i> , 2018, 67, 393-398.	1.6	13
12	CISNE: An accurate description of dose-effect and synergism in combination therapies. <i>Scientific Reports</i> , 2018, 8, 4964.	1.6	42
13	2D magnetic domain wall ratchet: The limit of submicrometric holes. <i>Materials and Design</i> , 2018, 138, 111-118.	3.3	9
14	Magnetic order and disorder in nanomagnets probed by superconducting vortices. <i>Scientific Reports</i> , 2018, 8, 12374.	1.6	2
15	Topological defects in weak perpendicular magnetic anisotropy NdCo honeycomb lattices. <i>New Journal of Physics</i> , 2018, 20, 113007.	1.2	4
16	Cycloidal Domains in the Magnetization Reversal Process of $\text{Ni}_{80}\text{Fe}_{20}$. <i>Physical Review Applied</i> , 2018, 10, .	1.5	4
17	3D reconstruction of magnetization from dichroic soft X-ray transmission tomography. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1144-1152.	1.0	17
18	Observation of asymmetric distributions of magnetic singularities across magnetic multilayers. <i>Physical Review B</i> , 2017, 95, .	1.1	16

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19	Deterministic propagation of vortex-antivortex pairs in magnetic trilayers. Applied Physics Letters, 2017, 110, .	1.5	17
20	Magnetic stripes and holes: Complex domain patterns in perforated films with weak perpendicular anisotropy. AIP Advances, 2017, 7, .	0.6	3
21	Tuning interfacial domain walls in GdCo/Gd/GdCo ϵ^2 spring magnets. Physical Review B, 2015, 92, .	1.1	15
22	Unravelling the tunable exchange bias-like effect in magnetostatically-coupled two dimensional hybrid (hard/soft) composites. Nanotechnology, 2015, 26, 225302.	1.3	4
23	Nanoscale imaging of buried topological defects with quantitative X-ray magnetic microscopy. Nature Communications, 2015, 6, 8196.	5.8	61
24	Tunable exchange bias-like effect in patterned hard-soft two-dimensional lateral composites with perpendicular magnetic anisotropy. Applied Physics Letters, 2014, 105, 102412.	1.5	6
25	Imprinted labyrinths and percolation in Nd-Co/Nb magnetic/superconducting hybrids. Journal of Applied Physics, 2014, 115, .	1.1	3
26	Thermomagnetic behaviour and compositional irreversibility on (Fe/Si) ₃ multilayer films. Journal of Magnetism and Magnetic Materials, 2014, 364, 24-33.	1.0	5
27	Submicrometric 2D ratchet effect in magnetic domain wall motion. Physica B: Condensed Matter, 2014, 455, 76-78.	1.3	4
28	Double percolation effects and fractal behavior in magnetic/superconducting hybrids. New Journal of Physics, 2013, 15, 103025.	1.2	12
29	Fabrication and magnetic properties of nanostructured amorphous Nd ϵ -Co films with lateral modulation of magnetic stripe period. Journal Physics D: Applied Physics, 2013, 46, 345001.	1.3	12
30	Vortex lattice motion in the flux creep regime on asymmetric pinning potentials. Superconductor Science and Technology, 2013, 26, 035016.	1.8	1
31	Controlled nucleation of topological defects in the stripe domain patterns of lateral multilayers with perpendicular magnetic anisotropy. Physical Review B, 2013, 88, .	1.1	23
32	Magnetic Behavior of High Density Arrays of Co Bars with Strong Magnetostatic Coupling. Journal of Nanoscience and Nanotechnology, 2012, 12, 7510-7515.	0.9	3
33	Topological Defects and Misfit Strain in Magnetic Stripe Domains of Lateral Multilayers With Perpendicular Magnetic Anisotropy. Physical Review Letters, 2012, 109, 117202.	2.9	39
34	Perpendicular magnetic anisotropy in Nd-Co alloy films nanostructured by di-block copolymer templates. Journal of Applied Physics, 2012, 112, .	1.1	9
35	Pulsed rf-GD-TOFMS for depth profile analysis of ultrathin layers using the analyte prepeak region. Analytical and Bioanalytical Chemistry, 2012, 403, 2437-2448.	1.9	14
36	Crossed-ratchet effects and domain wall geometrical pinning. Physical Review B, 2011, 83, .	1.1	12

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55	Imaging magnetic domains in Ni nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, e936-e938.	1.0	4
56	Depth dependence of Néel wall pinning on amorphous $\text{Co}_{x}\text{Si}_{1-x}$ films with diluted arrays of elliptical antidots. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e27-e30.	1.0	1
57	One-step fabrication of large area arrays of dots by electron beam lithography. <i>Microelectronic Engineering</i> , 2007, 84, 845-847.	1.1	2
58	Temperature effects on the magnetic properties of antiferromagnetically coupled amorphous $\text{Co}_{0.74}\text{Si}_{0.26}/\text{Si}$ multilayers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1420-1424.	0.8	1
59	Field and temperature dependence of Bloch walls across the thickness in $\text{Gd}_{0.28}\text{Co}_{0.72}/\text{Gd}_{0.12}\text{Co}_{0.88}$ exchange coupled double layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1431-1436.	0.8	1
60	Interlayer coupling mechanisms in amorphous $\text{Co}_{x}\text{Si}_{1-x}$ multilayers. <i>Physical Review B</i> , 2006, 74, .	1.1	11
61	Néel wall pinning on amorphous $\text{Co}_{x}\text{Si}_{1-x}$ and $\text{Co}_{y}\text{Zr}_{1-y}$ films with arrays of antidots in the diluted regime. <i>Journal of Applied Physics</i> , 2006, 99, 033902.	1.1	18
62	The role of material microstructure in the magnetic behavior of amorphous and polycrystalline $\text{Co}_{x}\text{Si}_{1-x}$ lines. <i>European Physical Journal B</i> , 2005, 47, 337-340.	0.6	0
63	Absence of spin scattering of in-plane spring domain walls. <i>Physical Review B</i> , 2005, 71, .	1.1	4
64	Antiferromagnetic coupling in amorphous $\text{Co}_{x}\text{Si}_{1-x}$ multilayers. <i>Physical Review B</i> , 2005, 71, .	1.1	24
65	Coercive fields of amorphous Co/Si films with diluted arrays of antidots. <i>Nanotechnology</i> , 2004, 15, S131-S136.	1.3	14
66	Domain walls and macroscopic spin-flip-like metamagnetism in $\text{Gd}_{x}\text{Co}_{1-x}/\text{Gd}_{y}\text{Co}_{1-y}$ exchange-coupled double layers. <i>Physical Review B</i> , 2004, 70, .	1.1	16
67	Magnetization reversal measurements in mesoscopic amorphous magnets by magneto-optical Kerr effect. <i>European Physical Journal B</i> , 2004, 40, 463-470.	0.6	11
68	Compensation temperatures and composition homogeneity in amorphous Gd/Co films. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1427-1429.	1.0	4
69	Incomplete magnetization switching processes in exchange coupled double layers of Gd/Co alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E855-E857.	1.0	2
70	Magnetic behavior of amorphous magnetic films with diluted arrays of antidots: induced vs. intrinsic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1335-E1337.	1.0	0
71	Ordered magnetic nanostructures: fabrication and properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 256, 449-501.	1.0	856
72	Temperature dependence of the magnetization reversal process in patterned Ni nanowires. <i>Nanotechnology</i> , 2003, 14, 294-298.	1.3	9

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73	Interplay between size and shape in the magnetic behaviour of epitaxial microtunnel junction arrays. <i>Nanotechnology</i> , 2003, 14, 492-496.	1.3	2
74	Vortex lattice channeling effects in Nb films induced by anisotropic arrays of mesoscopic pinning centers. <i>Physical Review B</i> , 2002, 65, .	1.1	53
75	Anisotropic pinning enhancement in Nb films with arrays of submicrometric Ni lines. <i>Applied Physics Letters</i> , 2002, 81, 2851-2853.	1.5	30
76	Order in driven vortex lattices in superconducting Nb films with nanostructured pinning potentials. <i>Physical Review B</i> , 2002, 65, .	1.1	32
77	Nanopatterning effects on magnetic anisotropy of epitaxial Fe(001) micrometric squares. <i>Journal of Applied Physics</i> , 2002, 91, 382.	1.1	17
78	Simulations and experiments on magneto-optical diffraction by an array of epitaxial Fe(001) microsquares. <i>Applied Physics Letters</i> , 2002, 81, 3206-3208.	1.5	17
79	Magnetic coupling in epitaxial Fe/MgO/Fe microtunnel junction arrays. <i>Nanotechnology</i> , 2002, 13, 695-700.	1.3	7
80	Nanostructures and the proximity effect. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 2398-2402.	1.3	29
81	Magnetization reversal processes in amorphous and polycrystalline Co-Si patterned nanowires. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 2565-2567.	1.2	3
82	Angular Dependence of the Irreversibility Line in Irradiated a-Axis-Oriented EuBa ₂ Cu ₃ O ₇ Films. , 2002, , 545-549.		0
83	Magnetotransport properties of patterned magnetic Ni wires of submicrometric dimensions. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 240, 14-16.	1.0	7
84	Determination of magnetic axes distribution in epitaxial Fe (001) micrometric squares by magneto optical technique. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 240, 37-39.	1.0	1
85	Interplay between the vortex lattice and arrays of submicrometric pinning centers. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 369, 135-140.	0.6	6
86	Mixed-state properties of superconducting Nb/Ni superlattices. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 369, 213-216.	0.6	14
87	Inverted hysteresis loops in annealed Co-Nb-Zr and Co-Fe-Mo-Si-B amorphous thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 242-245, 169-172.	1.0	11
88	Fabrication and magnetic properties of arrays of amorphous and polycrystalline ferromagnetic nanowires obtained by electron beam lithography. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 249, 156-162.	1.0	39
89	Oxygen content influence in the superconducting and electronic properties of Nd _{1.85} Ce _{0.15} Cu _{1.01} O _y ceramics. <i>Journal of Alloys and Compounds</i> , 2001, 323-324, 580-583.	2.8	7
90	Inverted hysteresis loops in magnetically coupled bilayers with uniaxial competing anisotropies: Theory and experiments. <i>Physical Review B</i> , 2001, 64, .	1.1	51

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91	Relation between microstructure and superconducting properties in a-axis 123 films and superlattices. Thin Solid Films, 2000, 373, 113-116.	0.8	2
92	Hall effect in Nd _{1.85} Ce _{0.15} CuO _y with controlled oxygen content. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1943-1944.	0.6	3
93	Fabrication and magnetic properties of long Ni wires of submicron width. Journal of Magnetism and Magnetic Materials, 2000, 221, 215-218.	1.0	11
94	Anisotropy measurements in mesoscopic magnets by magneto-optical torque. Applied Physics Letters, 2000, 77, 2039-2041.	1.5	16
95	Temperature dependence and mechanisms of vortex pinning by periodic arrays of Ni dots in Nb films. Physical Review B, 2000, 62, 9110-9116.	1.1	69
96	Coercive and anisotropy fields in patterned amorphous FeSi submicrometric structures. Journal of Applied Physics, 2000, 87, 5654-5656.	1.1	12
97	Fabrication and magnetic properties of electron beam lithography patterned arrays of single crystals. IEEE Transactions on Magnetics, 2000, 36, 3002-3004.	1.2	11
98	Epitaxial Fe (001) micro tiling: Size and interaction effects. Applied Physics Letters, 2000, 76, 3091-3093.	1.5	26
99	Fabrication of ordered arrays of permalloy submicrometric dots. Journal of Magnetism and Magnetic Materials, 1999, 203, 156-158.	1.0	9
100	Artificially Induced Reconfiguration of the Vortex Lattice by Arrays of Magnetic Dots. Physical Review Letters, 1999, 83, 1022-1025.	2.9	196
101	Magnetic vortices and pinning in thin films and superlattices. Thin Solid Films, 1998, 317, 285-289.	0.8	0
102	Fabrication of submicrometric magnetic structures by electron-beam lithography. Journal of Applied Physics, 1998, 84, 411-415.	1.1	73
103	Magnetization reversal in long chains of submicrometric Co dots. Applied Physics Letters, 1998, 72, 255-257.	1.5	39
104	Magnetic pinning of the vortex lattice by arrays of submicrometric dots. Physical Review B, 1998, 58, 8232-8235.	1.1	106
105	Interplay between artificially induced and intrinsic anisotropies in 123 superconducting superlattices. , 1998, 3480, 44.		0
106	Flux-flow resistivity and vortex viscosity of high-T _c films nearT _c . Physical Review B, 1997, 55, 5659-5662.	1.1	3
107	Dissipation mechanisms in EuBa/sub 2/Cu/sub 3/O/sub 7//SrTiO/sub 3/ and EuBa/sub 2/Cu/sub 3/O/sub 7//PrBa/sub 2/Cu/sub 3/O/sub 7/ multilayers. IEEE Transactions on Applied Superconductivity, 1997, 7, 2188-2191.	1.1	0
108	Flux Pinning in a Superconductor by an Array of Submicrometer Magnetic Dots. Physical Review Letters, 1997, 79, 1929-1932.	2.9	477

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109	Phase diagram, vortex dynamics and dissipation in thin films and superlattices of 1:2:3 superconducting cuprates. , 1997, , 316-336.		0
110	Magnetic flux pinning and microstructure, a special case: a-axis oriented superconducting superlattices. Thin Solid Films, 1996, 275, 119-124.	0.8	7
111	Angular dependence of the artificially induced anisotropy in a-axis-oriented EuBa ₂ Cu ₃ O ₇ /PrBa ₂ Cu ₃ O ₇ superconducting superlattices. Physical Review B, 1996, 54, 101-104.	1.1	10
112	Hall effect and longitudinal resistivity of 123 superconducting thin films: Scaling relations. Solid State Communications, 1995, 94, 341-344.	0.9	3
113	Critical currents and pinning forces in a-axis oriented EuBa ₂ Cu ₃ O ₇ /PrBa ₂ Cu ₃ O ₇ superlattices. Applied Physics Letters, 1995, 67, 3186-3188.	1.5	9
114	Multilayer pinning in a-axis-oriented EuBa ₂ Cu ₃ O ₇ /PrBa ₂ Cu ₃ O ₇ superconducting superlattices. Physical Review B, 1995, 52, R3872-R3875.	1.1	11
115	Critical currents and thermal activation in a-axis oriented EuBa ₂ /Cu ₃ /O ₇ thin films. IEEE Transactions on Applied Superconductivity, 1995, 5, 1537-1540.	1.1	5
116	Flux pinning and weak links in the behavior of the critical current of a-axis and c-axis EuBa ₂ Cu ₃ O ₇ superconducting thin films. Applied Physics Letters, 1994, 65, 2099-2101.	1.5	27
117	Sign reversal of the flux-flow Hall effect in sputtered a-axis- and c-axis-oriented films of 1:2:3 superconducting cuprates. Physical Review B, 1994, 49, 3496-3501.	1.1	27
118	Normal-state Hall effect in c-axis and a-axis oriented EuBa ₂ Cu ₃ O ₇ superconducting thin films. Physica B: Condensed Matter, 1994, 199-200, 246-247.	1.3	0
119	Hall effect in the mixed state of a-axis oriented EuBa ₂ Cu ₃ O ₇ films. Physica C: Superconductivity and Its Applications, 1994, 235-240, 3123-3124.	0.6	2
120	Critical scaling and vortex glass transition in a-axis oriented EuBa ₂ Cu ₃ O ₇ thin films. Physica C: Superconductivity and Its Applications, 1994, 235-240, 3171-3172.	0.6	0
121	Sign reversal of the flux flow Hall effect in oxygen deficient YBa ₂ Cu ₃ O _x films. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1451-1452.	0.6	1