

# Rafael Perez Del Real

## List of Publications by Year in descending order

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22  
papers

493  
citations

567281

15  
h-index

713466

21  
g-index

22  
all docs

22  
docs citations

22  
times ranked

462  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trapping and Injecting Single Domain Walls in Magnetic Wire by Local Fields. <i>Physical Review Letters</i> , 2012, 108, 037201.	7.8	63
2	Magnetization Ratchet in Cylindrical Nanowires. <i>ACS Nano</i> , 2018, 12, 5932-5939.	14.6	63
3	Magnetization pinning in modulated nanowires: from topological protection to the "corkscrew" mechanism. <i>Nanoscale</i> , 2018, 10, 5923-5927.	5.6	51
4	Vortex domain wall propagation in periodically modulated diameter FeCoCu nanowire as determined by the magneto-optical Kerr effect. <i>Nanotechnology</i> , 2015, 26, 461001.	2.6	41
5	CoFeCu electroplated nanowire arrays: Role of composition and annealing on structure and magnetic properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1076-1082.	1.8	29
6	Magnetic Configurations in Modulated Cylindrical Nanowires. <i>Nanomaterials</i> , 2021, 11, 600.	4.1	29
7	Controlling depinning and propagation of single domain-walls in magnetic microwires. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	23
8	Magnetic interactions in compositionally modulated nanowire arrays. <i>Nanotechnology</i> , 2016, 27, 435705.	2.6	22
9	Thermo-responsive PNIPAm nanopillars displaying amplified responsiveness through the incorporation of nanoparticles. <i>Nanoscale</i> , 2018, 10, 1189-1195.	5.6	19
10	Unveiling the Origin of Multidomain Structures in Compositionally Modulated Cylindrical Magnetic Nanowires. <i>ACS Nano</i> , 2020, 14, 12819-12827.	14.6	19
11	Local magnetization profile and geometry magnetization effects in microwires as determined by magneto-optical Kerr effect. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	18
12	Nanometer Scale Hard/Soft Bilayer Magnetic Antidots. <i>Nanoscale Research Letters</i> , 2016, 11, 86.	5.7	18
13	Addition of molybdenum into amorphous glass-coated microwires usable as temperature sensors in biomedical applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 377-383.	1.8	16
14	Structural and Magnetic Characterization of FeCoCu/Cu Multilayer Nanowire Arrays. <i>IEEE Magnetics Letters</i> , 2014, 5, 1-4.	1.1	15
15	Micromagnetic evaluation of the dissipated heat in cylindrical magnetic nanowires. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	15
16	Electric current and field control of vortex structures in cylindrical magnetic nanowires. <i>Physical Review B</i> , 2020, 102, .	3.2	14
17	Magnetic properties engineering of nanopatterned cobalt antidot arrays. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 175004.	2.8	11
18	Micromagnetism of dense permalloy antidot lattices from anodic alumina templates. <i>Europhysics Letters</i> , 2012, 100, 17007.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Synthesis and magnetism of modulated FeCo-based nanowires. Journal of Physics: Conference Series, 2016, 755, 012001.	0.4	9
20	Stochastic vs. deterministic magnetic coding in designed cylindrical nanowires for 3D magnetic networks. Nanoscale, 2021, 13, 12587-12593.	5.6	7
21	Nanometric Metal-Film Thickness Measurement Based on a Planar Spiral Coils Stack. IEEE Nanotechnology Magazine, 2015, 14, 297-303.	2.0	1
22	Role of magnetic ordering in the phase coexistence at the structural instability of the multiferroic BiFeO <sub>3</sub> –PbTiO <sub>3</sub> . Applied Physics Letters, 2021, 118, 052901.	3.3	0