

# Jose Luis Vicent Lopez

## List of Publications by Year in descending order

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20  
papers

988  
citations

840776

11  
h-index

839539

18  
g-index

20  
all docs

20  
docs citations

20  
times ranked

640  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Superconducting Reversible Rectifier That Controls the Motion of Magnetic Flux Quanta. <i>Science</i> , 2003, 302, 1188-1191.	12.6	441
2	Artificially Induced Reconfiguration of the Vortex Lattice by Arrays of Magnetic Dots. <i>Physical Review Letters</i> , 1999, 83, 1022-1025.	7.8	196
3	Temperature dependence and mechanisms of vortex pinning by periodic arrays of Ni dots in Nb films. <i>Physical Review B</i> , 2000, 62, 9110-9116.	3.2	69
4	Directional vortex motion guided by artificially induced mesoscopic potentials. <i>Physical Review B</i> , 2003, 68, .	3.2	58
5	Vortex lattice channeling effects in Nb films induced by anisotropic arrays of mesoscopic pinning centers. <i>Physical Review B</i> , 2002, 65, .	3.2	53
6	Vortex liquid entanglement in twinned YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /Y <sub>2</sub> BaCuO <sub>5</sub> composite superconductors. <i>Physical Review B</i> , 1999, 60, 13099-13106.	3.2	34
7	Order in driven vortex lattices in superconducting Nb films with nanostructured pinning potentials. <i>Physical Review B</i> , 2002, 65, .	3.2	32
8	Anisotropic pinning enhancement in Nb films with arrays of submicrometric Ni lines. <i>Applied Physics Letters</i> , 2002, 81, 2851-2853.	3.3	30
9	Rocking ratchet induced by pure magnetic potentials with broken reflection symmetry. <i>Physical Review B</i> , 2009, 80, .	3.2	15
10	Control of dissipation in superconducting films by magnetic stray fields. <i>Applied Physics Letters</i> , 2013, 102, 052601.	3.3	15
11	Superconducting/magnetic Three-state Nanodevice for Memory and Reading Applications. <i>Scientific Reports</i> , 2015, 5, 15210.	3.3	14
12	Topologically protected superconducting ratchet effect generated by spin-ice nanomagnets. <i>Nanotechnology</i> , 2019, 30, 244003.	2.6	9
13	Magnetic pinning of flux lattice in superconducting-nanomagnet hybrids. <i>Applied Physics Letters</i> , 2011, 99, 182509.	3.3	5
14	A superconducting/magnetic hybrid rectifier based on Fe single-crystal nanocentres: role of magnetic and geometric asymmetries. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 095302.	2.8	5
15	Different approaches to generate matching effects using arrays in contact with superconducting films.. <i>Superconductor Science and Technology</i> , 2017, 30, 025014.	3.5	5
16	Magnetic versus non-magnetic pinning of vortices in superconducting films: Role of effective penetration depth. <i>Applied Physics Letters</i> , 2016, 109, 172601.	3.3	4
17	Vortex dynamics controlled by local superconducting enhancement. <i>New Journal of Physics</i> , 2019, 21, 113059.	2.9	2
18	Layer-dependence of macroscopic and atomic magnetic correlations in Co/Pd multilayers. <i>AIP Advances</i> , 2020, 10, 065321.	1.3	1

#	ARTICLE	IF	CITATIONS
19	Remanence enhancement for stray field-based applications in arrays of crystalline nanomagnets. Journal Physics D: Applied Physics, 2019, 52, 095002.	2.8	0
20	Realization of macroscopic ratchet effect based on nonperiodic and uneven potentials. Scientific Reports, 2021, 11, 16617.	3.3	0