

# Christoforos Moutafis

## List of Publications by Year in descending order

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28  
papers

2,095  
citations

567281

15  
h-index

526287

27  
g-index

29  
all docs

29  
docs citations

29  
times ranked

2308  
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive interfacial chiral interaction in multilayers for stabilization of small individual skyrmions at room temperature. <i>Nature Nanotechnology</i> , 2016, 11, 444-448.	31.5	919
2	Dynamics and inertia of skyrmionic spin structures. <i>Nature Physics</i> , 2015, 11, 225-228.	16.7	304
3	Room-Temperature Current-Induced Generation and Motion of sub-100 nm Skyrmions. <i>Nano Letters</i> , 2017, 17, 2703-2712.	9.1	291
4	Dynamics and switching processes for magnetic bubbles in nanoelements. <i>Physical Review B</i> , 2009, 79, .	3.2	120
5	Skyrmion Logic System for Large-Scale Reversible Computation. <i>Physical Review Applied</i> , 2019, 12, .	3.8	70
6	Magnetic bubbles in FePt nanodots with perpendicular anisotropy. <i>Physical Review B</i> , 2007, 76, .	3.2	65
7	Vortices in ferromagnetic elements with perpendicular anisotropy. <i>Physical Review B</i> , 2006, 74, .	3.2	32
8	Nanoscale switch for vortex polarization mediated by Bloch core formation in magnetic hybrid systems. <i>Nature Communications</i> , 2015, 6, 7836.	12.8	32
9	Enhanced Nonadiabaticity in Vortex Cores due to the Emergent Hall Effect. <i>Physical Review Letters</i> , 2016, 117, 277203.	7.8	29
10	Effect of substrate roughness on the magnetic properties of thin fcc Co films. <i>Physical Review B</i> , 2007, 76, .	3.2	27
11	Structural and morphological characterisation of hybrid Cu/Si(001) structures. <i>Surface Science</i> , 2007, 601, 1377-1383.	1.9	26
12	Nanoscale Room-Temperature Multilayer Skyrmionic Synapse for Deep Spiking Neural Networks. <i>Physical Review Applied</i> , 2020, 14, .	3.8	26
13	Dynamic domain wall chirality rectification by rotating magnetic fields. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	18
14	Magnetic states in low-pinning high-anisotropy material nanostructures suitable for dynamic imaging. <i>Physical Review B</i> , 2013, 87, .	3.2	17
15	Skyrmionic interconnect device. <i>Physical Review Research</i> , 2020, 2, .	3.6	16
16	Luminescence-based magnetic imaging with scanning x-ray transmission microscopy. <i>Applied Physics Letters</i> , 2012, 101, 083114.	3.3	14
17	Tunable terahertz oscillation arising from Bloch-point dynamics in chiral magnets. <i>Physical Review Research</i> , 2020, 2, .	3.6	13
18	X-ray excited optical luminescence of metal oxide single crystals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 189, 1-4.	1.7	12

#	ARTICLE	IF	CITATIONS
19	Controlled anisotropic dynamics of tightly bound skyrmions in a synthetic ferrimagnet due to skyrmion deformation mediated by induced uniaxial in-plane anisotropy. Physical Review B, 2019, 99, .	3.2	12
20	Collective antiskyrmion-mediated phase transition and defect-induced melting in chiral magnetic films. Scientific Reports, 2018, 8, 16675.	3.3	8
21	Influence of substrate roughness on the magnetic properties of thin fcc Co films. Journal of Applied Physics, 2007, 101, 09D113.	2.5	7
22	Magnetic Bloch-point hopping in multilayer skyrmions and associated emergent electromagnetic signatures. Physical Review B, 2021, 104, .	3.2	5
23	Dynamic stabilization of nonequilibrium domain configurations in magnetic squares with high amplitude excitations. Physical Review B, 2013, 87, .	3.2	4
24	Robustness to Noisy Synaptic Weights in Spiking Neural Networks. , 2020, , .		4
25	Meronlike Spin Textures in In-Plane-Magnetized Thin Films. Physical Review Applied, 2020, 14, .	3.8	4
26	Magnetization dynamics in synthetic ferromagnetic thin films. Physical Review B, 2021, 104, .	3.2	4
27	Numerical calculation model for spin-dependent transport of photoexcited electrons across Fe/GaAs(0001) interfaces. Journal Physics D: Applied Physics, 2010, 43, 305001.	2.8	1
28	Skyrmions in magnetic multilayers: chirality, electrical detection and current-induced motion. , 2017, , .		1