

Davide Maccariello

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6549816/publications.pdf>

Version: 2024-02-01

29
papers

1,838
citations

361296

20
h-index

526166

27
g-index

30
all docs

30
docs citations

30
times ranked

2747
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature stabilization of antiferromagnetic skyrmions in synthetic antiferromagnets. Nature Materials, 2020, 19, 34-42.	13.3	297
2	Room-Temperature Current-Induced Generation and Motion of sub-100 nm Skyrmions. Nano Letters, 2017, 17, 2703-2712.	4.5	291
3	Electrical detection of single magnetic skyrmions in metallic multilayers at room temperature. Nature Nanotechnology, 2018, 13, 233-237.	15.6	204
4	Hybrid chiral domain walls and skyrmions in magnetic multilayers. Science Advances, 2018, 4, eaat0415.	4.7	172
5	Conducting interfaces between band insulating oxides: The LaGaO ₃ /SrTiO ₃ heterostructure. Applied Physics Letters, 2010, 97, .	1.5	133
6	Electron Transfer and Ionic Displacements at the Origin of the 2D Electron Gas at the LAO/STO Interface: Direct Measurements with Atomic-Column Spatial Resolution. Advanced Materials, 2012, 24, 3952-3957.	11.1	132
7	Pulsed laser deposition of SrTiO ₃ /LaGaO ₃ and SrTiO ₃ /LaAlO ₃ : Plasma plume effects. Applied Physics Letters, 2010, 97, 252105.	1.5	71
8	Chirality in Magnetic Multilayers Probed by the Symmetry and the Amplitude of Dichroism in X-Ray Resonant Magnetic Scattering. Physical Review Letters, 2018, 120, 037202.	2.9	59
9	Persistent Photoconductivity in 2D Electron Gases at Different Oxide Interfaces. Advanced Optical Materials, 2013, 1, 834-843.	3.6	48
10	Spatially Resolved, Site-Dependent Charge Transfer and Induced Magnetic Moment in TCNQ Adsorbed on Graphene. Chemistry of Materials, 2014, 26, 2883-2890.	3.2	42
11	Dzyaloshinskii-Moriya interaction at disordered interfaces from <i>ab initio</i> theory: Robustness against intermixing and tunability through doping. Applied Physics Letters, 2018, 113, .	1.5	42
12	Spectral and spatial distribution of polarization at the LaAlO ₃ /SrTiO ₃ interface. Applied Physics Letters, 2010, 97, 252105.	1.1	40
13	Engineering Large Anisotropic Magnetoresistance in La _{0.7} Sr _{0.3} MnO ₃ Films at Room Temperature. Advanced Functional Materials, 2017, 27, 1700664.	7.8	39
14	Optimization of La _{0.7} Ba _{0.3} MnO ₃ complex oxide laser ablation conditions by plume imaging and optical emission spectroscopy. Journal of Applied Physics, 2010, 108, 043302.	1.1	38
15	Vectorial Kerr magnetometer for simultaneous and quantitative measurements of the in-plane magnetization components. Review of Scientific Instruments, 2014, 85, 053904.	0.6	32
16	Modeling the Shape of Axisymmetric Skyrmions in Magnetic Multilayers. Physical Review Applied, 2018, 10, .	1.5	31
17	Low-energy excitations of graphene on Ru(0001). Carbon, 2015, 93, 1-10.	5.4	30
18	Controlled Individual Skyrmion Nucleation at Artificial Defects Formed by Ion Irradiation. Small, 2020, 16, e1907450.	5.2	27

#	ARTICLE	IF	CITATIONS
19	Observation of Localized Vibrational Modes of Graphene Nanodomes by Inelastic Atom Scattering. Nano Letters, 2016, 16, 2-7.	4.5	26
20	Nanostructure of buried interface layers in TiO ₂ anatase thin films grown on LaAlO ₃ and SrTiO ₃ substrates. Nanoscale, 2012, 4, 91-94.	2.8	22
21	Helium, neon and argon diffraction from Ru(0001). Journal of Physics Condensed Matter, 2012, 24, 354002.	0.7	16
22	Magnetization reversal signatures in the magnetoresistance of magnetic multilayers. Physical Review B, 2012, 86, .	1.1	15
23	Direct experimental determination of the anisotropic magnetoresistive effects. Applied Physics Letters, 2014, 104, 202407.	1.5	12
24	Interfacial exchange-coupling induced chiral symmetry breaking of spin-orbit effects. Physical Review B, 2015, 92, .	1.1	9
25	Electrical Signature of Noncollinear Magnetic Textures in Synthetic Antiferromagnets. Physical Review Applied, 2020, 14, .	1.5	4
26	Publisher's Note: Spectral and spatial distribution of polarization at the LaAlO ₃ /SrTiO ₃ interface [Phys. Rev. B83, 155405 (2011)]. Physical Review B, 2011, 83, .	1.1	3
27	Skyrmions in magnetic multilayers: chirality, electrical detection and current-induced motion. , 2017, , .		1
28	Chiral asymmetry driven by unidirectional magnetic anisotropy in Spin-Orbitronic systems. Proceedings of SPIE, 2016, , .	0.8	0
29	Chiral asymmetry driven by unidirectional magnetic anisotropy in spin-orbitronic systems. , 2017, , .		0