

Roberto Lo Conte

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

559
citations

758635

12
h-index

676716

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g-index

22
all docs

22
docs citations

22
times ranked

988
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-orbit torque-driven diffusion in the interfacial Dzyaloshinskii-Moriya interaction in TaCoFeBMgO nanowires. Applied Physics Letters, 2014, 105, .	1.1	78
2	Spin-orbit torque switching of a ferromagnet with picosecond electrical pulses. Nature Electronics, 2020, 3, 680-686.	13.1	63
3	Large Dzyaloshinskii-Moriya interaction induced by chemisorbed oxygen on a ferromagnet surface. Science Advances, 2020, 6, eaba4924.	4.7	60
4	Spin-orbit torque-driven magnetization switching and thermal effects studied in TaCoFeBMgO nanowires. Applied Physics Letters, 2014, 105, .	1.5	49
5	Influence of Nonuniform Micron-Scale Strain Distributions on the Electrical Reorientation of Magnetic Microstructures in a Composite Multiferroic Heterostructure. Nano Letters, 2018, 18, 1952-1961.	4.5	44
6	Modification of Dzyaloshinskii-Moriya-Interaction-Stabilized Domain Wall Chirality by Driving Currents. Physical Review Letters, 2018, 121, 147203.	2.9	35
7	Observation of Hydrogen-Induced Dzyaloshinskii-Moriya Interaction and Reversible Switching of Magnetic Chirality. Physical Review X, 2021, 11, .	2.8	34
8	Bi-directional coupling in strain-mediated multiferroic heterostructures with magnetic domains and domain wall motion. Scientific Reports, 2018, 8, 5207.	1.6	33
9	Effective field analysis using the full angular spin-orbit torque magnetometry dependence. Physical Review B, 2017, 95, .	1.1	27
10	Ferromagnetic layer thickness dependence of the Dzyaloshinskii-Moriya interaction and spin-orbit torques in PtCoAlO _x . AIP Advances, 2017, 7, .	0.6	24
11	Evidence for phonon skew scattering in the spin Hall effect of platinum. Physical Review B, 2018, 97, .	1.1	18
12	Enhanced magnetoelectric coupling in a composite multiferroic system via interposing a thin film polymer. AIP Advances, 2018, 8, .	0.6	14
13	Spin-orbit torques for current parallel and perpendicular to a domain wall. Applied Physics Letters, 2015, 107, .	1.5	12
14	Tunable Magnetoelastic Effects in Voltage-Controlled Exchange-Coupled Composite Multiferroic Microstructures. ACS Applied Materials & Interfaces, 2020, 12, 6752-6760.	4.0	12
15	Coexistence of antiferromagnetism and superconductivity in Mn/Nb(110). Physical Review B, 2022, 105, .	1.1	12
16	Sub-10 nm colloidal lithography for circuit-integrated spin-photo-electronic devices. Beilstein Journal of Nanotechnology, 2012, 3, 884-892.	1.5	11
17	Tuning the Properties of Zero-Field Room Temperature Ferromagnetic Skyrmions by Interlayer Exchange Coupling. Nano Letters, 2020, 20, 4739-4747.	4.5	11
18	Electrically controlled switching of the magnetization state in multiferroic BaTiO ₃ /CoFeO ₃ submicrometer structures. Physical Review Materials, 2018, 2, .	0.9	10

#	ARTICLE	IF	CITATIONS
19	Cytocompatible magnetostrictive microstructures for nano- and microparticle manipulation on linear strain response piezoelectrics. <i>Multifunctional Materials</i> , 2018, 1, 014004.	2.4	6
20	Influence of dislocations and twin walls in BaTiO ₃ on the voltage-controlled switching of perpendicular magnetization. <i>Physical Review Materials</i> , 2021, 5, .	0.9	3
21	Control of the Magnetic Configuration of Ferromagnetic Nanostructures Across the Structural Phase Transition of Vanadium Dioxide. <i>IEEE Magnetics Letters</i> , 2016, 7, 1-4.	0.6	2
22	Electric-field controlled magnetic reorientation in exchange coupled CoFeB/Ni bilayer microstructures. <i>Journal of Physics: Conference Series</i> , 2019, 1407, 012024.	0.3	1