

Edoardo Albisetti

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,273
citations

471509

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361022

35
g-index

44
all docs

44
docs citations

44
times ranked

1756
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2021 Magnonics Roadmap. Journal of Physics Condensed Matter, 2021, 33, 413001.	1.8	287
2	Nanopatterning reconfigurable magnetic landscapes via thermally assisted scanning probe lithography. Nature Nanotechnology, 2016, 11, 545-551.	31.5	134
3	Patterning metal contacts on monolayer MoS2 with vanishing Schottky barriers using thermal nanolithography. Nature Electronics, 2019, 2, 17-25.	26.0	113
4	Nanoscale spin-wave circuits based on engineered reconfigurable spin-textures. Communications Physics, 2018, 1, .	5.3	74
5	Room-temperature ferroelectric switching of spin-to-charge conversion in germanium telluride. Nature Electronics, 2021, 4, 740-747.	26.0	62
6	Optically Inspired Nanomagnonics with Nonreciprocal Spin Waves in Synthetic Antiferromagnets. Advanced Materials, 2020, 32, e1906439.	21.0	58
7	Storing magnetic information in IrMn/MgO/Ta tunnel junctions via field-cooling. Applied Physics Letters, 2013, 102, .	3.3	56
8	Integrated platform for detecting pathogenic DNA via magnetic tunneling junction-based biosensors. Sensors and Actuators B: Chemical, 2017, 242, 280-287.	7.8	45
9	Spatial defects nanoengineering for bipolar conductivity in MoS2. Nature Communications, 2020, 11, 3463.	12.8	41
10	Friction and work function oscillatory behavior for an even and odd number of layers in polycrystalline MoS ₂ . Nanoscale, 2018, 10, 8304-8312.	5.6	36
11	Single particle demultiplexer based on domain wall conduits. Applied Physics Letters, 2012, 101, 142405.	3.3	29
12	Conditions for efficient on-chip magnetic bead detection via magnetoresistive sensors. Biosensors and Bioelectronics, 2013, 47, 213-217.	10.1	28
13	Exchange Bias Tuning for Magnetoresistive Sensors by Inclusion of Non-Magnetic Impurities. Sensors, 2016, 16, 1030.	3.8	27
14	Thermochemical scanning probe lithography of protein gradients at the nanoscale. Nanotechnology, 2016, 27, 315302.	2.6	26
15	Photolithographic bio-patterning of magnetic sensors for biomolecular recognition. Sensors and Actuators B: Chemical, 2014, 200, 39-46.	7.8	21
16	Thermal scanning probe lithography. Nature Reviews Methods Primers, 2022, 2, .	21.2	19
17	Domain wall engineering through exchange bias. Journal of Magnetism and Magnetic Materials, 2016, 400, 230-235.	2.3	18
18	Disentangling electrons and lattice nonlinear optical response in metal-dielectric Bragg filters. Physical Review B, 2014, 89, .	3.2	17

#	ARTICLE	IF	CITATIONS
19	On-Chip Magnetic Platform for Single-Particle Manipulation with Integrated Electrical Feedback. <i>Small</i> , 2016, 12, 921-929.	10.0	15
20	Biocompatibility of a Magnetic Tunnel Junction Sensor Array for the Detection of Neuronal Signals in Culture. <i>Frontiers in Neuroscience</i> , 2018, 12, 909.	2.8	15
21	Sub-10 nm Resolution Patterning of Pockets for Enzyme Immobilization with Independent Density and Quasi-3D Topography Control. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41780-41790.	8.0	15
22	Review on magnonics with engineered spin textures. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 293003.	2.8	15
23	Nanopatterning spin-textures: A route to reconfigurable magnonics. <i>AIP Advances</i> , 2017, 7, 055601.	1.3	14
24	Stabilization and control of topological magnetic solitons via magnetic nanopatterning of exchange bias systems. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	14
25	High-throughput protein nanopatterning. <i>Faraday Discussions</i> , 2019, 219, 33-43.	3.2	13
26	Bias-controlled ultrafast demagnetization in magnetic tunnel junctions. <i>Physical Review B</i> , 2014, 89, .	3.2	12
27	Functionalization of gold surfaces with copoly(DMA-NAS-MAPS) by dip coating: Surface characterization and hybridization tests. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 234-242.	7.8	12
28	Magnetic domain wall tweezers: a new tool for mechanobiology studies on individual target cells. <i>Lab on A Chip</i> , 2016, 16, 2882-2890.	6.0	12
29	A 12-channel dual-lock-in platform for magneto-resistive DNA detection with ppm resolution. , 2014, , .		8
30	Temperature Dependence of the Magnetic Properties of IrMn/CoFeB/Ru/CoFeB Exchange Biased Synthetic Antiferromagnets. <i>Materials</i> , 2020, 13, 387.	2.9	8
31	A Lab-on-a-chip Tool for Rapid, Quantitative, and Stage-selective Diagnosis of Malaria. <i>Advanced Science</i> , 2021, 8, 2004101.	11.2	6
32	Optimization of the bio-functionalized area of magnetic biosensors. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	5
33	Towards an on-chip platform for the controlled application of forces via magnetic particles: A novel device for mechanobiology. <i>Journal of Applied Physics</i> , 2015, 117, 17B317.	2.5	5
34	Towards a magnetoresistive platform for neural signal recording. <i>AIP Advances</i> , 2017, 7, .	1.3	5
35	Electrical readout of the antiferromagnetic state of IrMn through anomalous Hall effect. <i>Journal of Applied Physics</i> , 2020, 128, 053904.	2.5	5
36	Towards the impedimetric tracking of single magnetically trailed microparticles. , 2014, , .		2

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37	Closed loop microfluidic platform based on domain wall magnetic conduits: a novel tool for biology and medicine. Materials Research Society Symposia Proceedings, 2014, 1686, 1.	0.1	0
38	Highly Sensitive Magnetic Array-based Platform for Neuronal Signal Recording. Procedia Technology, 2017, 27, 292-294.	1.1	0
39	Magnetic Tunnel Junction Based Chip to Detect the Magnetic Field of Neuronal Signals: A Platform for In Vitro Studies. Proceedings (mdpi), 2017, 1, .	0.2	0
40	Epitaxy and controlled oxidation of chromium ultrathin films on ferroelectric BaTiO3 templates. Journal of Crystal Growth, 2021, 558, 126012.	1.5	0
41	Diagnosis of Malaria: A Lab-On-a-Chip Tool for Rapid, Quantitative, and Stage-Selective Diagnosis of Malaria (Adv. Sci. 14/2021). Advanced Science, 2021, 8, 2170087.	11.2	0
42	Thermal scanning probe lithography: from spintronics to biomedical applications. , 2018, , .		0
43	Spin textures patterned via thermally assisted magnetic scanning probe lithography for magnonics. , 2018, , .		0