

# Edoardo Albisetti

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,273  
citations

471509

17  
h-index

361022

35  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1756  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on magnonics with engineered spin textures. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 293003.	2.8	15
2	Thermal scanning probe lithography. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	21.2	19
3	Epitaxy and controlled oxidation of chromium ultrathin films on ferroelectric BaTiO <sub>3</sub> templates. <i>Journal of Crystal Growth</i> , 2021, 558, 126012.	1.5	0
4	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
5	Diagnosis of Malaria: A Lab-on-a-Chip Tool for Rapid, Quantitative, and Stage-selective Diagnosis of Malaria (Adv. Sci. 14/2021). <i>Advanced Science</i> , 2021, 8, 2170087.	11.2	0
6	The 2021 Magnonics Roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 413001.	1.8	287
7	Room-temperature ferroelectric switching of spin-to-charge conversion in germanium telluride. <i>Nature Electronics</i> , 2021, 4, 740-747.	26.0	62
8	Spatial defects nanoengineering for bipolar conductivity in MoS <sub>2</sub> . <i>Nature Communications</i> , 2020, 11, 3463.	12.8	41
9	Electrical readout of the antiferromagnetic state of IrMn through anomalous Hall effect. <i>Journal of Applied Physics</i> , 2020, 128, 053904.	2.5	5
10	Temperature Dependence of the Magnetic Properties of IrMn/CoFeB/Ru/CoFeB Exchange Biased Synthetic Antiferromagnets. <i>Materials</i> , 2020, 13, 387.	2.9	8
11	Optically Inspired Nanomagnonics with Nonreciprocal Spin Waves in Synthetic Antiferromagnets. <i>Advanced Materials</i> , 2020, 32, e1906439.	21.0	58
12	Sub-10 nm Resolution Patterning of Pockets for Enzyme Immobilization with Independent Density and Quasi-3D Topography Control. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41780-41790.	8.0	15
13	High-throughput protein nanopatterning. <i>Faraday Discussions</i> , 2019, 219, 33-43.	3.2	13
14	Patterning metal contacts on monolayer MoS <sub>2</sub> with vanishing Schottky barriers using thermal nanolithography. <i>Nature Electronics</i> , 2019, 2, 17-25.	26.0	113
15	Friction and work function oscillatory behavior for an even and odd number of layers in polycrystalline MoS <sub>2</sub> . <i>Nanoscale</i> , 2018, 10, 8304-8312.	5.6	36
16	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
17	Nanoscale spin-wave circuits based on engineered reconfigurable spin-textures. <i>Communications Physics</i> , 2018, 1, .	5.3	74
18	Stabilization and control of topological magnetic solitons via magnetic nanopatterning of exchange bias systems. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	14

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19	Thermal scanning probe lithography: from spintronics to biomedical applications. , 2018, , .		0
20	Spin textures patterned via thermally assisted magnetic scanning probe lithography for magnonics. , 2018, , .		0
21	Towards a magnetoresistive platform for neural signal recording. AIP Advances, 2017, 7, .	1.3	5
22	Nanopatterning spin-textures: A route to reconfigurable magnonics. AIP Advances, 2017, 7, 055601.	1.3	14
23	Highly Sensitive Magnetic Array-based Platform for Neuronal Signal Recording. Procedia Technology, 2017, 27, 292-294.	1.1	0
24	Integrated platform for detecting pathogenic DNA via magnetic tunneling junction-based biosensors. Sensors and Actuators B: Chemical, 2017, 242, 280-287.	7.8	45
25	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
26	Exchange Bias Tuning for Magnetoresistive Sensors by Inclusion of Non-Magnetic Impurities. Sensors, 2016, 16, 1030.	3.8	27
27	On-Chip Magnetic Platform for Single-Particle Manipulation with Integrated Electrical Feedback. Small, 2016, 12, 921-929.	10.0	15
28	Thermochemical scanning probe lithography of protein gradients at the nanoscale. Nanotechnology, 2016, 27, 315302.	2.6	26
29	Magnetic domain wall tweezers: a new tool for mechanobiology studies on individual target cells. Lab on A Chip, 2016, 16, 2882-2890.	6.0	12
30	Nanopatterning reconfigurable magnetic landscapes via thermally assisted scanning probe lithography. Nature Nanotechnology, 2016, 11, 545-551.	31.5	134
31	Domain wall engineering through exchange bias. Journal of Magnetism and Magnetic Materials, 2016, 400, 230-235.	2.3	18
32	Towards an on-chip platform for the controlled application of forces via magnetic particles: A novel device for mechanobiology. Journal of Applied Physics, 2015, 117, 17B317.	2.5	5
33	A 12-channel dual-lock-in platform for magneto-resistive DNA detection with ppm resolution. , 2014, , .		8
34	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
35	Towards the impedimetric tracking of single magnetically trailed microparticles. , 2014, , .		2
36	Photolithographic bio-patterning of magnetic sensors for biomolecular recognition. Sensors and Actuators B: Chemical, 2014, 200, 39-46.	7.8	21

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37	Bias-controlled ultrafast demagnetization in magnetic tunnel junctions. <i>Physical Review B</i> , 2014, 89, .	3.2	12
38	Disentangling electrons and lattice nonlinear optical response in metal-dielectric Bragg filters. <i>Physical Review B</i> , 2014, 89, .	3.2	17
39	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
40	Optimization of the bio-functionalized area of magnetic biosensors. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	5
41	Conditions for efficient on-chip magnetic bead detection via magnetoresistive sensors. <i>Biosensors and Bioelectronics</i> , 2013, 47, 213-217.	10.1	28
42	Storing magnetic information in IrMn/MgO/Ta tunnel junctions via field-cooling. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	56
43	Single particle demultiplexer based on domain wall conduits. <i>Applied Physics Letters</i> , 2012, 101, 142405.	3.3	29