

Daniela Petti

List of Publications by Year in descending order

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68
papers

1,939
citations

331670

21
h-index

254184

43
g-index

68
all docs

68
docs citations

68
times ranked

2887
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2021 Magnonics Roadmap. Journal of Physics Condensed Matter, 2021, 33, 413001.	1.8	287
2	Electric control of magnetism at the Fe/BaTiO3 interface. Nature Communications, 2014, 5, 3404.	12.8	179
3	Nanopatterning reconfigurable magnetic landscapes via thermally assisted scanning probe lithography. Nature Nanotechnology, 2016, 11, 545-551.	31.5	134
4	On-chip Manipulation of Protein-Coated Magnetic Beads via Domain-Wall Conduits. Advanced Materials, 2010, 22, 2706-2710.	21.0	131
5	Controlled Release of Doxorubicin Loaded within Magnetic Thermo-responsive Nanocarriers under Magnetic and Thermal Actuation in a Microfluidic Channel. ACS Nano, 2012, 6, 10535-10545.	14.6	91
6	Electric field control of magnetic anisotropies and magnetic coercivity in Fe/BaTiO3(001) heterostructures. Applied Physics Letters, 2011, 98, .	3.3	82
7	Oxygen vacancies and induced changes in the electronic and magnetic structures of La0.66Sr0.33MnO3: A combined ab initio and photoemission study. Physical Review B, 2007, 75, .	3.2	78
8	Nanoscale spin-wave circuits based on engineered reconfigurable spin-textures. Communications Physics, 2018, 1, .	5.3	74
9	Room-temperature ferroelectric switching of spin-to-charge conversion in germanium telluride. Nature Electronics, 2021, 4, 740-747.	26.0	62
10	Optically Inspired Nanomagnonics with Nonreciprocal Spin Waves in Synthetic Antiferromagnets. Advanced Materials, 2020, 32, e1906439.	21.0	58
11	Storing magnetic information in IrMn/MgO/Ta tunnel junctions via field-cooling. Applied Physics Letters, 2013, 102, .	3.3	56
12	Integrated platform for detecting pathogenic DNA via magnetic tunneling junction-based biosensors. Sensors and Actuators B: Chemical, 2017, 242, 280-287.	7.8	45
13	Activation of Zr-Co rare earth getter films: An XPS study. Applied Surface Science, 2010, 256, 6291-6296.	6.1	42
14	Ge-Based Spin-Photodiodes for Room-Temperature Integrated Detection of Photon Helicity. Advanced Materials, 2012, 24, 3037-3041.	21.0	40
15	Effects of Au nanoparticles on the magnetic and transport properties of $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ layers. Physical Review B, 2010, 81, .	3.2	39
16	Conditions for efficient on-chip magnetic bead detection via magnetoresistive sensors. Biosensors and Bioelectronics, 2013, 47, 213-217.	10.1	28
17	Near-room-temperature control of magnetization in field effect devices based on La0.67Sr0.33MnO3 thin films. Journal of Applied Physics, 2010, 108, 113906.	2.5	27
18	Exchange Bias Tuning for Magnetoresistive Sensors by Inclusion of Non-Magnetic Impurities. Sensors, 2016, 16, 1030.	3.8	27

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37	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
38	Band alignment at Cu ₂ O/La _{0.7} Sr _{0.3} MnO ₃ interface: A combined experimental-theoretical determination. Applied Physics Letters, 2010, 97, .	3.3	11
39	Chemical and electronic properties of Fe/MgO/Ge heterostructures for spin electronics. Journal of Physics: Conference Series, 2011, 292, 012010.	0.4	11
40	Epitaxial growth of Fe/MgO/Ge(001) heterostructures. Microelectronic Engineering, 2011, 88, 530-533.	2.4	10
41	Absence of strain-mediated magnetoelectric coupling at fully epitaxial Fe/BaTiO ₃ interface (invited). Journal of Applied Physics, 2014, 115, 172604.	2.5	10
42	Decrease of the Curie temperature in La _{0.67} Sr _{0.33} MnO ₃ thin films induced by Au capping. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 144, 93-96.	3.5	9
43	X-ray photoemission study of the Au•La _{0.67} Sr _{0.33} MnO ₃ interface formation. Journal of Applied Physics, 2008, 103, .	2.5	9
44	A 12-channel dual-lock-in platform for magneto-resistive DNA detection with ppm resolution. , 2014, , .		8
45	Electrical and magnetic properties of hemozoin nanocrystals. Applied Physics Letters, 2018, 113, .	3.3	8
46	Temperature Dependence of the Magnetic Properties of IrMn/CoFeB/Ru/CoFeB Exchange Biased Synthetic Antiferromagnets. Materials, 2020, 13, 387.	2.9	8
47	Epitaxial Fe/MgO/Ge spin-photodiodes for integrated detection of light helicity at room temperature. Journal of Applied Physics, 2012, 111, 07C312.	2.5	6
48	Localized mechanical stimulation of single cells with engineered spatio-temporal profile. Lab on A Chip, 2018, 18, 2955-2965.	6.0	6
49	Effect of Au proximity on the LSMO surface: An ab initio study. Journal of Magnetism and Magnetic Materials, 2012, 324, 2659-2663.	2.3	5
50	Optimization of the bio-functionalized area of magnetic biosensors. European Physical Journal B, 2013, 86, 1.	1.5	5
51	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
52	Towards a magnetoresistive platform for neural signal recording. AIP Advances, 2017, 7, .	1.3	5
53	Electrical readout of the antiferromagnetic state of IrMn through anomalous Hall effect. Journal of Applied Physics, 2020, 128, 053904.	2.5	5
54	Building a half-adder based on spin waves. Nature Electronics, 2020, 3, 736-737.	26.0	4

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55	Structural comparison between MgO/Fe(001) and MgO/Fe(001) α -p(1 \AA -1)O interfaces for magnetic tunneling junctions: An Auger electron diffraction study. Applied Surface Science, 2014, 305, 167-172.	6.1	3
56	Aberration corrected scanning transmission electron microscopy and electron energy loss spectroscopy studies of epitaxial Fe/MgO/(001)Ge heterostructures. Journal of Materials Science, 2011, 46, 4157-4161.	3.7	2
57	Towards the impedimetric tracking of single magnetically trailed microparticles. , 2014, , .		2
58	On-Chip Magnetophoretic Concentration of Malaria-Infected Red Blood Cells and Hemozoin Nanocrystals. , 2018, , .		1
59	Plasmon-enhanced second-harmonic sensing on a microfluidic chip. , 2018, , .		1
60	Influence of Au electrodes on the properties of SrTiO ₃ /La _{0.67} Sr _{0.33} MnO ₃ /Au magnetic tunnel junctions studied by aberration-corrected STEM-EELS. Microscopy and Microanalysis, 2008, 14, 1392-1393.	0.4	0
61	Manipulation at the nano-scale of single magnetic particles via domain walls conduits. , 2009, , .		0
62	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
63	Switching magnetic order at an Fe/BaTiO ₃ interface on and off: Impact on hybrid magnetic-ferroelectric tunnel junctions. , 2015, , .		0
64	Highly Sensitive Magnetic Array-based Platform for Neuronal Signal Recording. Procedia Technology, 2017, 27, 292-294.	1.1	0
65	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
66	Epitaxy and controlled oxidation of chromium ultrathin films on ferroelectric BaTiO ₃ templates. Journal of Crystal Growth, 2021, 558, 126012.	1.5	0
67	Thermal scanning probe lithography: from spintronics to biomedical applications. , 2018, , .		0
68	Spin textures patterned via thermally assisted magnetic scanning probe lithography for magnonics. , 2018, , .		0