

Davide Massarotti

List of Publications by Year in descending order

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66
papers

1,461
citations

361413

20
h-index

330143

37
g-index

70
all docs

70
docs citations

70
times ranked

1472
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Cost Sensors Based on SPR in a Plastic Optical Fiber for Biosensor Implementation. <i>Sensors</i> , 2011, 11, 11752-11760.	3.8	261
2	Tunable spin polarization and superconductivity in engineered oxide interfaces. <i>Nature Materials</i> , 2016, 15, 278-283.	27.5	104
3	Performance Comparison of Two Sensors Based on Surface Plasmon Resonance in a Plastic Optical Fiber. <i>Sensors</i> , 2013, 13, 721-735.	3.8	98
4	An innovative plastic optical fiber-based biosensor for new bio/applications. The case of celiac disease. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1008-1014.	7.8	85
5	Influence of topological edge states on the properties of Al/Bi Josephson devices. <i>Physical Review B</i> , 2014, 89, .	3.2	81
6	Thermal hopping and retrapping of a Brownian particle in the tilted periodic potential of a NbN/MgO/NbN Josephson junction. <i>Physical Review B</i> , 2011, 84, .	3.2	50
7	Weak localization and spin-orbit interaction in side-gate field effect devices at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. <i>Physical Review B</i> , 2014, 90, .	3.2	47
8	Macroscopic quantum tunnelling in spin filter ferromagnetic Josephson junctions. <i>Nature Communications</i> , 2015, 6, 7376.	12.8	44
9	Direct Transition from Quantum Escape to a Phase Diffusion Regime in YBaCuO Biepitaxial Josephson Junctions. <i>Physical Review Letters</i> , 2012, 109, 050601.	7.8	43
10	Recent Achievements on the Physics of High-T C Superconductor Josephson Junctions: Background, Perspectives and Inspiration. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 21-41.	1.8	43
11	Signatures of unconventional superconductivity in the $\text{LaAlO}_3/\text{SrTiO}_3$ two-dimensional system. <i>Physical Review B</i> , 2017, 95, .	3.2	43
12	RF assisted switching in magnetic Josephson junctions. <i>Journal of Applied Physics</i> , 2018, 123, . <i>Resolving the effects of frequency-dependent damping and quantum phase diffusion in YBaCuO junctions</i>	2.5	29
13	CuO interface. <i>Physical Review B</i> , 2017, 95, .	3.2	28
14	Quantum crossover in moderately damped epitaxial NbN/MgO/NbN junctions with low critical current density. <i>Applied Physics Letters</i> , 2011, 99, 062510.	3.3	27
15	Breakdown of the escape dynamics in Josephson junctions. <i>Physical Review B</i> , 2015, 92, .	3.2	26
16	Superconductor to resistive state switching by multiple fluctuation events in NbTiN nanostrips. <i>Scientific Reports</i> , 2019, 9, 8053.	3.3	26
17	Escape dynamics in moderately damped Josephson junctions (Review Article). <i>Low Temperature Physics</i> , 2012, 38, 263-272.	0.6	24
18	Properties of Ferromagnetic Josephson Junctions for Memory Applications. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-6.	1.7	24

#	ARTICLE	IF	CITATIONS
19	Tuning of Magnetic Activity in Spin-Filter Josephson Junctions Towards Spin-Triplet Transport. <i>Physical Review Letters</i> , 2019, 122, 047002.	7.8	24
20	High quality factor HTS Josephson junctions on low loss substrates. <i>Superconductor Science and Technology</i> , 2011, 24, 045008.	3.5	21
21	Dynamics of vortex matter in YBCO sub-micron bridges. <i>Physica C: Superconductivity and Its Applications</i> , 2014, 506, 188-194.	1.2	20
22	Suspended InAs nanowire Josephson junctions assembled via dielectrophoresis. <i>Nanotechnology</i> , 2015, 26, 385302.	2.6	20
23	Enhanced localized superconductivity in $\text{Sr}_{2}\text{RuO}_{4}$ thin film by pulsed laser deposition. <i>Superconductor Science and Technology</i> , 2016, 29, 095005.	3.5	19
24	Characterization of scalable Josephson memory element containing a strong ferromagnet. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	19
25	The influence of heat treatment on the microstructure, flux pinning and magnetic properties of bulk BSCCO samples prepared by sol-gel route. <i>Ceramics International</i> , 2018, 44, 5209-5218.	4.8	18
26	Statistics of localized phase slips in tunable width planar point contacts. <i>Scientific Reports</i> , 2017, 7, 44569.	3.3	17
27	Electrodynamics of Highly Spin-Polarized Tunnel Josephson Junctions. <i>Physical Review Applied</i> , 2020, 13, .	3.8	17
28	Coexistence and tuning of spin-singlet and triplet transport in spin-filter Josephson junctions. <i>Communications Physics</i> , 2022, 5, .	5.3	17
29	Electrodynamics of Josephson junctions containing strong ferromagnets. <i>Physical Review B</i> , 2018, 98, .	3.2	16
30	Geometrical vortex lattice pinning and melting in YBaCuO submicron bridges. <i>Scientific Reports</i> , 2016, 6, 38677.	3.3	14
31	Towards a Hybrid High Critical Temperature Superconductor Junction With a Semiconducting InAs Nanowire Barrier. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 3429-3437.	1.8	12
32	Vortex Lattice Instabilities in YBa ₂ Cu ₃ O _{7-x} Nanowires. <i>Materials</i> , 2018, 11, 211.	2.9	12
33	Hybrid ferromagnetic transmon qubit: Circuit design, feasibility, and detection protocols for magnetic fluctuations. <i>Physical Review B</i> , 2022, 105, .	3.2	12
34	Synthesis and characterization of electrically conductive polyethylene-supported graphene films. <i>Nanoscale Research Letters</i> , 2014, 9, 475.	5.7	11
35	The Role of Multiple Fluctuation Events in NbN and NbTiN Superconducting Nanostrip Single-Photon Detectors. <i>Journal of Low Temperature Physics</i> , 2020, 199, 6-11.	1.4	11
36	Depairing Current at High Magnetic Fields in Vortex-Free High-Temperature Superconducting Nanowires. <i>Nano Letters</i> , 2019, 19, 4174-4179.	9.1	10

#	ARTICLE	IF	CITATIONS
55	Characterization of Moderately Damped Low Tc Josephson junctions through Measurements of Switching Current Distributions. Physics Procedia, 2012, 36, 110-115.	1.2	1
56	Study of Phase Dynamics in Moderately Damped Josephson Junctions. Journal of Superconductivity and Novel Magnetism, 2013, 26, 835-838.	1.8	1
57	Hysteretic Critical State in Coplanar Josephson Junction with Monolayer Graphene Barrier. Journal of Superconductivity and Novel Magnetism, 2017, 30, 5-14.	1.8	1
58	10. Josephson and charging effect in mesoscopic superconducting devices. , 2017, , 309-338.		1
59	Unconventional magnetic hysteresis of the Josephson supercurrent in magnetic Josephson Junctions. , 2021, , .		1
60	Superconducting Molybdenum Silicide nanostrips for single photon detectors. , 2021, , .		1
61	Energy scales in YBaCuO grain boundary biepitaxial Josephson junctions. Physica C: Superconductivity and Its Applications, 2012, 479, 74-78.	1.2	0
62	Effects of capacitance on phase dynamics of YBa ₂ Cu ₃ O _{7-x} Josephson junctions. IEEE Transactions on Applied Superconductivity, 2014, , 1-1.	1.7	0
63	Phase dynamics of low critical current density YBCO Josephson junctions. Physica C: Superconductivity and Its Applications, 2014, 503, 113-119.	1.2	0
64	Ferromagnetic Josephson Junctions for High Performance Computation. Proceedings (mdpi), 2019, 12, 16.	0.2	0
65	Low temperature characterization of high efficiency spin-filter Josephson junctions. EPJ Web of Conferences, 2020, 233, 05007.	0.3	0
66	Currentâ€“Voltage Characteristics. Springer Series in Materials Science, 2019, , 235-274.	0.6	0