

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
19	Depairing Current at High Magnetic Fields in Vortex-Free High-Temperature Superconducting Nanowires. Nano Letters, 2019, 19, 4174-4179.	9.1	10
20	Phase Dynamics and Macroscopic Quantum Tunneling. Springer Series in Materials Science, 2019, , 455-512.	0.6	4
21	Current-Voltage Characteristics. Springer Series in Materials Science, 2019, , 235-274.	0.6	0
22	RF assisted switching in magnetic Josephson junctions. Journal of Applied Physics, 2018, 123, .	2.5	29
23	The influence of heat treatment on the microstructure, flux pinning and magnetic properties of bulk BSCCO samples prepared by sol-gel route. Ceramics International, 2018, 44, 5209-5218.	4.8	18
24	Electrodynamics of Josephson junctions containing strong ferromagnets. Physical Review B, 2018, 98, .	3.2	16
25	Vortex Lattice Instabilities in YBa ₂ Cu ₃ O _{7-x} Nanowires. Materials, 2018, 11, 211.	2.9	12
26	Properties of Ferromagnetic Josephson Junctions for Memory Applications. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	24
27	Statistics of localized phase slips in tunable width planar point contacts. Scientific Reports, 2017, 7, 44569.	3.3	17
28	What happens in Josephson junctions at high critical current densities. Low Temperature Physics, 2017, 43, 816-823.	0.6	2
29	Signatures of unconventional superconductivity in the $\text{LaAlO}_3/\text{SrTiO}_3$ two-dimensional system. Physical Review B, 2017, 95, .	3.2	43
30	Hysteretic Critical State in Coplanar Josephson Junction with Monolayer Graphene Barrier. Journal of Superconductivity and Novel Magnetism, 2017, 30, 5-14.	1.8	1
31	Low temperature properties of spin filter NbN/GdN/NbN Josephson junctions. Physica C: Superconductivity and Its Applications, 2017, 533, 53-58.	1.2	4
32	10. Josephson and charging effect in mesoscopic superconducting devices. , 2017, , 309-338.		1
33	Geometrical vortex lattice pinning and melting in YBaCuO submicron bridges. Scientific Reports, 2016, 6, 38677.	3.3	14
34	Enhanced localized superconductivity in Sr ₂ RuO ₄ thin film by pulsed laser deposition. Superconductor Science and Technology, 2016, 29, 095005.	3.5	19
35	Josephson Coupling in Junctions Made of Monolayer Graphene Grown on SiC. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1145-1150.	1.8	5
36	Incipient Berezinskii-Kosterlitz-Thouless transition in two-dimensional coplanar Josephson junctions. Physical Review B, 2016, 94, .	3.2	6

#	ARTICLE	IF	CITATIONS
37	Tunable spin polarization and superconductivity in engineered oxide interfaces. Nature Materials, 2016, 15, 278-283.	27.5	104
38	A simple Arduino-based configuration for SPR sensors in plastic optical fibers. , 2015, , .		5
39	Suspended InAs nanowire Josephson junctions assembled via dielectrophoresis. Nanotechnology, 2015, 26, 385302.	2.6	20
40	Breakdown of the escape dynamics in Josephson junctions. Physical Review B, 2015, 92, .	3.2	26
41	Niobium nanoSQUIDs Based on Sandwich nanojunctions: Performance as a Function of the Temperature. IEEE Transactions on Applied Superconductivity, 2015, , 1-1.	1.7	2
42	Macroscopic quantum tunnelling in spin filter ferromagnetic Josephson junctions. Nature Communications, 2015, 6, 7376.	12.8	44
43	Towards a Hybrid High Critical Temperature Superconductor Junction With a Semiconducting InAs Nanowire Barrier. Journal of Superconductivity and Novel Magnetism, 2015, 28, 3429-3437.	1.8	12
44	Bias current ramp rate dependence of the crossover temperature from Kramers to phase diffusion switching in moderately damped NbN/AlN/NbN Josephson junctions. Journal of Applied Physics, 2014, 116, 043905.	2.5	5
45	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
46	Weak localization and spin-orbit interaction in side-gate field effect devices at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2014, 90, .	3.2	47
47	Influence of topological edge states on the properties of $\text{Al}/\text{YBCO}/\text{Al}$ Josephson devices. Physical Review B, 2014, 89, .	3.2	81
48	Synthesis and characterization of electrically conductive polyethylene-supported graphene films. Nanoscale Research Letters, 2014, 9, 475.	5.7	11
49	Josephson effect in Al/Bi ₂ Se ₃ /Al coplanar hybrid devices. Physica C: Superconductivity and Its Applications, 2014, 503, 162-165.	1.2	7
50	Phase dynamics of low critical current density YBCO Josephson junctions. Physica C: Superconductivity and Its Applications, 2014, 503, 113-119.	1.2	0
51	Dynamics of vortex matter in YBCO sub-micron bridges. Physica C: Superconductivity and Its Applications, 2014, 506, 188-194.	1.2	20
52	Recent Achievements on the Physics of High-T _c Superconductor Josephson Junctions: Background, Perspectives and Inspiration. Journal of Superconductivity and Novel Magnetism, 2013, 26, 21-41.	1.8	43
53	An innovative plastic optical fiber-based biosensor for new bio/applications. The case of celiac disease. Sensors and Actuators B: Chemical, 2013, 176, 1008-1014.	7.8	85
54	Study of Phase Dynamics in Moderately Damped Josephson Junctions. Journal of Superconductivity and Novel Magnetism, 2013, 26, 835-838.	1.8	1

#	ARTICLE	IF	CITATIONS
55	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
56	Macroscopic quantum tunneling and retrapping processes in moderately damped YBaCuO Josephson junctions. <i>Low Temperature Physics</i> , 2013, 39, 294-298.	0.6	6
57	Macroscopic quantum tunneling and quantum phase diffusion in YBaCuO Josephson junctions. <i>Physical Review Letters</i> , 2012, 109, 050601.	3.2	28
58	Publisher's Note: Direct Transition from Quantum Escape to a Phase Diffusion Regime in YBaCuO Biepitaxial Josephson Junctions [<i>Phys. Rev. Lett.</i> 109, 050601 (2012)]. <i>Physical Review Letters</i> , 2012, 109, .	7.8	1
59	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
60	Escape dynamics in moderately damped Josephson junctions (Review Article). <i>Low Temperature Physics</i> , 2012, 38, 263-272.	0.6	24
61	Characterization of Moderately Damped Low Tc Josephson junctions through Measurements of Switching Current Distributions. <i>Physics Procedia</i> , 2012, 36, 110-115.	1.2	1
62	Energy scales in YBaCuO grain boundary biepitaxial Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2012, 479, 74-78.	1.2	0
63	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
64	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
65	High quality factor HTS Josephson junctions on low loss substrates. <i>Superconductor Science and Technology</i> , 2011, 24, 045008.	3.5	21
66	Low Cost Sensors Based on SPR in a Plastic Optical Fiber for Biosensor Implementation. <i>Sensors</i> , 2011, 11, 11752-11760.	3.8	261