

Domenico Montemurro

List of Publications by Year in descending order

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26
papers

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citations

759233

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all docs

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docs citations

26
times ranked

583
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the Inverse Magnetic Hysteresis of the Josephson Supercurrent in Magnetic Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	2
2	Hybrid ferromagnetic transmon qubit: Circuit design, feasibility, and detection protocols for magnetic fluctuations. Physical Review B, 2022, 105, .	3.2	12
3	Aluminum-ferromagnetic Josephson tunnel junctions for high quality magnetic switching devices. Applied Physics Letters, 2022, 120, .	3.3	6
4	Activation Energies in $MoSi$ Superconducting Nanowire Single-Photon Detectors. Physical Review Applied, 2022, 18, .	3.3	8
5	Inverse magnetic hysteresis of the Josephson supercurrent: Study of the magnetic properties of thin niobium/permalloy Fe / Al junctions. Physical Review Applied, 2022, 18, .	3.2	10
6	Biochemical sensing exploiting plasmonic sensors based on gold nanogratings and polymer optical fibers. Photonics Research, 2021, 9, 1397.	7.0	16
7	Demonstration of Single Photon Detection in Amorphous Molybdenum Silicide / Aluminium Superconducting Nanostrip. IEEE Instrumentation and Measurement Magazine, 2021, 24, 69-74.	1.6	8
8	Unconventional magnetic hysteresis of the Josephson supercurrent in magnetic Josephson Junctions. , 2021, , .		1
9	Fast Tunable High- Q -Factor Superconducting Microwave Resonators. Physical Review Applied, 2020, 14, .	3.8	29
10	Topological insulator nanoribbon Josephson junctions: Evidence for size effects in transport properties. Journal of Applied Physics, 2020, 128, 194304.	2.5	21
11	Experimental Characterization of Plasmonic Sensors Based on Lab-Built Tapered Plastic Optical Fibers. Applied Sciences (Switzerland), 2020, 10, 4389.	2.5	22
12	Properties of grooved Dayem bridge based $YBa_2Cu_3O_{7-\delta}$ superconducting quantum interference devices and magnetometers. Applied Physics Letters, 2020, 116, 132601.	3.3	20
13	Characterization of scalable Josephson memory element containing a strong ferromagnet. Journal of Applied Physics, 2020, 127, .	2.5	19
14	Use of a spoof plasmon to optimize the coupling of infrared radiation to Josephson-junction fluxon oscillations. Physical Review B, 2020, 101, .	3.2	1
15	Uniform doping of graphene close to the Dirac point by polymer-assisted assembly of molecular dopants. Nature Communications, 2018, 9, 3956.	12.8	61
16	What happens in Josephson junctions at high critical current densities. Low Temperature Physics, 2017, 43, 816-823.	0.6	2
17	Transport properties of ultrathin $YBa_2Cu_3O_{7-\delta}$ superconducting nanoribbon Josephson junctions: Evidence for size effects in transport properties. Journal of Applied Physics, 2020, 128, 194304.	2.5	21
18	Study of in-plane electrical transport anisotropy of $YBa_2Cu_3O_{7-\delta}$ superconducting nanodevices. Physical Review B, 2017, 95, .	3.2	7

#	ARTICLE	IF	CITATIONS
19	Suspended InAs nanowire Josephson junctions assembled via dielectrophoresis. Nanotechnology, 2015, 26, 385302.	2.6	20
20	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
21	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
22	Coherent transport in extremely underdoped Nd _{1.2} Ba _{1.8} Cu ₃ O _z nanostructures. New Journal of Physics, 2012, 14, 083025.	2.9	7
23	Escape dynamics in moderately damped Josephson junctions (Review Article). Low Temperature Physics, 2012, 38, 263-272.	0.6	24
24	Energy scales in YBaCuO grain boundary biepitaxial Josephson junctions. Physica C: Superconductivity and Its Applications, 2012, 479, 74-78.	1.2	0
25	Little-Parks effect in single nanoscale $YBa_2Cu_3O_{7-x}$ Josephson junctions. Physical Review B, 2010, 81, .	3.2	41
26	Thickness dependence of pinning mechanisms in granular Nb thin films. Superconductor Science and Technology, 2006, 19, 1124-1129.	3.5	10