

Domenico Montemurro

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

439
citations

759233

12
h-index

713466

21
g-index

26
all docs

26
docs citations

26
times ranked

583
citing authors

#	ARTICLE	IF	CITATIONS
1	Uniform doping of graphene close to the Dirac point by polymer-assisted assembly of molecular dopants. <i>Nature Communications</i> , 2018, 9, 3956.	12.8	61
2	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
3	Little-Parks effect in single nanoscale $YBa_2Cu_3O_{7-x}$ nanowires. <i>Physical Review B</i> , 2010, 81, .	3.2	37
4	Transport properties of ultrathin $YBa_2Cu_3O_{7-x}$ nanowires: A route to single-photon detection. <i>Physical Review B</i> , 2017, 96, .	3.7	37
5	Fast Tunable High-Q Factor Superconducting Microwave Resonators. <i>Physical Review Applied</i> , 2020, 14, .	3.8	29
6	Escape dynamics in moderately damped Josephson junctions (Review Article). <i>Low Temperature Physics</i> , 2012, 38, 263-272.	0.6	24
7	Experimental Characterization of Plasmonic Sensors Based on Lab-Built Tapered Plastic Optical Fibers. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4389.	2.5	22
8	Topological insulator nanoribbon Josephson junctions: Evidence for size effects in transport properties. <i>Journal of Applied Physics</i> , 2020, 128, 194304.	2.5	21
9	Suspended InAs nanowire Josephson junctions assembled via dielectrophoresis. <i>Nanotechnology</i> , 2015, 26, 385302.	2.6	20
10	Properties of grooved Dayem bridge based $YBa_2Cu_3O_{7-x}$ superconducting quantum interference devices and magnetometers. <i>Applied Physics Letters</i> , 2020, 116, 132601.	3.3	20
11	Characterization of scalable Josephson memory element containing a strong ferromagnet. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	19
12	Biochemical sensing exploiting plasmonic sensors based on gold nanogratings and polymer optical fibers. <i>Photonics Research</i> , 2021, 9, 1397.	7.0	16
13	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
14	Hybrid ferromagnetic transmon qubit: Circuit design, feasibility, and detection protocols for magnetic fluctuations. <i>Physical Review B</i> , 2022, 105, .	3.2	12
15	Thickness dependence of pinning mechanisms in granular Nb thin films. <i>Superconductor Science and Technology</i> , 2006, 19, 1124-1129.	3.5	10
16	Inverse magnetic hysteresis of the Josephson supercurrent: Study of the magnetic properties of thin niobium/permalloy Fe/Nb junctions. <i>Physical Review B</i> , 2010, 81, 104107.	3.2	10
17	Demonstration of Single Photon Detection in Amorphous Molybdenum Silicide / Aluminium Superconducting Nanostrip. <i>IEEE Instrumentation and Measurement Magazine</i> , 2021, 24, 69-74.	1.6	8
18	Activation Energies in $MoSi$ Superconducting Nanowire Single-Photon Detectors. <i>Physical Review Applied</i> , 2022, 18, .	3.8	8

#	ARTICLE	IF	CITATIONS
19	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
20	Study of in-plane electrical transport anisotropy of a -axis oriented $YBa_2Cu_3O_{7-x}$ nanodevices. Physical Review B, 2017, 95, .	3.3	7
21	Aluminum-ferromagnetic Josephson tunnel junctions for high quality magnetic switching devices. Applied Physics Letters, 2022, 120, .	3.3	6
22	What happens in Josephson junctions at high critical current densities. Low Temperature Physics, 2017, 43, 816-823.	0.6	2
23	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
24	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
25	Unconventional magnetic hysteresis of the Josephson supercurrent in magnetic Josephson Junctions. , 2021, , .		1
26	Energy scales in YBaCuO grain boundary biepitaxial Josephson junctions. Physica C: Superconductivity and Its Applications, 2012, 479, 74-78.	1.2	0