Carla Cirillo

List of Publications by Year
in descending order

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44	660	516710 16	610901 24
papers	citations	h-index	g-index

44	44	44	536
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interface transparency and proximity effect in Nb/Cu triple layers realized by sputtering and molecular beam epitaxy. Superconductor Science and Technology, 2005, 18, 1-8.	3.5	88
2	Superconducting proximity effect and interface transparency inNbâˆ•PdNibilayers. Physical Review B, 2005, 72, .	3.2	57
3	Controllable morphology of flux avalanches in microstructured superconductors. Physical Review B, 2014, 89, .	3.2	41
4	Quasiparticle energy relaxation times in NbN/CuNi nanostripes from critical velocity measurements. Physical Review B, 2011, 84, .	3.2	27
5	Interface transparency of Nb/Pd layered systems. European Physical Journal B, 2004, 38, 59-64.	1.5	26
6	Depairing current behavior in superconductingNbâˆ•Pd81Ni19bilayers. Physical Review B, 2007, 75, .	3.2	26
7	Evidence of double-gap superconductivity in noncentrosymmetric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nb</mml:mi><mml:mrow><mml:mn>0.18</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> crystals. Physical Review B, 2015, 91, .	3.2	26
8	Static and dynamic properties of the vortex lattice in superconductor/weak ferromagnet bilayers. Superconductor Science and Technology, 2011, 24, 024017.	3.5	22
9	Emergence of the stripe-domain phase in patterned permalloy films. Physical Review B, 2016, 94, .	3.2	22
10	NbRe as candidate material for fast single photon detection. Applied Physics Letters, 2017, 111, .	3.3	21
11	Emergence of a metallic metastable phase induced by electrical current in Ca2RuO4. Physical Review B, 2019, 100, .	3.2	21
12	Thickness dependence of vortex critical velocity in wide Nb films. Physica C: Superconductivity and Its Applications, 2008, 468, 765-768.	1.2	19
13	Superconducting properties of noncentrosymmetric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nb</mml:mi><mml:mrow><mml:mn>0.18</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> films probed by transport and tunneling experiments. Physical Review B, 2016, 94, .	3.2	19
14	Proximity effect and interface transparency in Nb/Cu multilayers. Journal of Applied Physics, 2009, 106, 113917.	2.5	18
15	Nonmonotonic behavior of the anisotropy coefficient in superconductor-ferromagnet-superconductor trilayers. Physical Review B, 2009, 80, .	3.2	18
16	Superconducting nanowire single photon detectors based on disordered NbRe films. Applied Physics Letters, 2020, 117, .	3.3	18
17	Quasiparticle relaxation mechanisms in superconductor/ferromagnet bilayers. Journal of Physics Condensed Matter, 2012, 24, 083201.	1.8	14
18	Multiple order parameter configurations in superconductor/ferromagnet multilayers. Physical Review B, 2011, 84, .	3.2	13

#	Article	IF	Citations
19	Evaluation of the specific boundary resistance of superconducting/weakly ferromagnetic hybrids by critical temperature measurements. Journal of Applied Physics, 2011, 110, 113904.	2.5	12
20	Resistive transitions in Nb/Cu0.41Ni0.59/Nb trilayers. JETP Letters, 2008, 88, 375-379.	1.4	10
21	Effect of the variation of the exchange energy on the superconducting critical temperature of S/F/S trilayers. European Physical Journal B, 2011, 80, 445-449.	1.5	10
22	Non-linear Flux Flow Resistance of Type-II Superconducting Films. Journal of Superconductivity and Novel Magnetism, 2011, 24, 81-87.	1.8	10
23	Metamorphosis of discontinuity lines and rectification of magnetic flux avalanches in the presence of noncentrosymmetric pinning forces. Physical Review B, 2021, 103, .	3.2	10
24	Magnetic field and temperature dependence of the critical vortex velocity in type-II superconducting films. Journal of Physics Condensed Matter, 2009, 21, 254207.	1.8	9
25	Long-range proximity effect in Nb-based heterostructures induced by a magnetically inhomogeneous permalloy layer. New Journal of Physics, 2017, 19, 023037.	2.9	9
26	Magnetotransport and magnetic properties of amorphous $$mathrm{NdNi}_5$$ thin films. Scientific Reports, 2020, 10, 13693.	3.3	9
27	Magnetic flux avalanches in Nb/NbN thin films. Low Temperature Physics, 2020, 46, 365-371.	0.6	9
28	NbReN: A disordered superconductor in thin film form for potential application as superconducting nanowire single photon detector. Physical Review Materials, 2021, 5, .	2.4	9
29	Nucleation of superconductivity in finite metallic multilayers: Effect of the symmetry. European Physical Journal B, 2004, 41, 439-444.	1.5	8
30	Change of the topology of a superconducting thin film electromagnetically coupled with an array of ferromagnetic nanowires. Superconductor Science and Technology, 2016, 29, 015011.	3.5	8
31	Effect of geometrical symmetry on the angular dependence of the critical magnetic field in superconductor/normal metal multilayers. Physical Review B, 2005, 72, .	3.2	7
32	Role of the external surfaces on the superconducting properties of superconductor/normal metal trilayers. Superlattices and Microstructures, 2008, 43, 86-92.	3.1	7
33	Influence of the magnetic configuration on the vortex-lattice instability in Nb/permalloy bilayers. Physical Review B, 2017, 96, .	3.2	7
34	Quasiparticles relaxation processes in Nb/CuNi bilayers. European Physical Journal B, 2011, 83, 53-56.	1.5	6
35	Ultrathin superconducting NbRe microstrips with hysteretic voltage-current characteristic. Low Temperature Physics, 2020, 46, 379-382.	0.6	5
36	Effect of the substrate on the electrical transport and fluctuation processes in NbRe and NbReN ultrathin films for superconducting electronics applications. Scientific Reports, 2022, 12, 1573.	3.3	5

#	Article	IF	Citations
37	Vortex matching effects in Nb thin films due to Ni nanopillars embedded in anodic aluminum oxide substrates. Superconductor Science and Technology, 2013, 26, 035001.	3.5	4
38	Universal size-dependent nonlinear charge transport in single crystals of the Mott insulator Ca2RuO4. Npj Quantum Materials, 2021, 6, .	5.2	4
39	Magnetic memory effect in type-II superconductor/ferromagnet bilayers. Superconductor Science and Technology, 2014, 27, 055024.	3.5	2
40	Superconducting Order Parameter Nucleation and Critical Currents in the Presence of Weak Stray Fields in Superconductor/Insulator/Ferromagnet Hybrids. Coatings, 2021, 11, 507.	2.6	2
41	Enhancement of the superconducting critical temperature in Nb/Py/Nb trilayers. Physica C: Superconductivity and its Applications, 2012, 479, 170-172.	1.2	1
42	Drag Voltages in a Superconductor/Insulator/Ferromagnet Trilayer. Materials, 2021, 14, 7575.	2.9	1
43	Proposal for a NbPy-based superconducting spin-valve. European Physical Journal: Special Topics, 2019, 228, 741-747.	2.6	0
44	Role of disorder in the superconducting proximity effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>a</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mi>NdNi</mml:mi> bilayers. Physical Review B, 2021, 104, .	3.2	0