

Ciro Nappi

List of Publications by Year in descending order

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99
papers

629
citations

623734

14
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752698

20
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101
all docs

101
docs citations

101
times ranked

490
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of low-temperature I-V curves of high-quality Nb/AlOx/Nb Josephson junctions. Journal of Applied Physics, 1992, 71, 1888-1892.	2.5	35
2	Fabrication and test of Superconducting Single Photon Detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 559, 564-566.	1.6	26
3	Performance of nano superconducting quantum interference devices for small spin cluster detection. Journal of Applied Physics, 2009, 106, .	2.5	24
4	Probing transport mechanisms of BaFe2As2 superconducting films and grain boundary junctions by noise spectroscopy. Scientific Reports, 2015, 4, 6163.	3.3	24
5	Properties of high-angle Fe(Se,Te) bicrystal grain boundary junctions. Applied Physics Letters, 2014, 104, 162601.	3.3	23
6	Modification of the ion background profile in the nonlinear electron plasma oscillations. Physica Scripta, 1991, 43, 301-305.	2.5	22
7	On a consistent mean spherical model for plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 78, 75-78.	2.1	20
8	Investigation of subgap structures in high-quality Nb/AlOx/Nb tunnel junctions. Physical Review B, 1994, 49, 429-440.	3.2	19
9	Magnetic properties of annular Josephson junctions for radiation detection: Experimental results. Applied Physics Letters, 1999, 74, 3389-3391.	3.3	19
10	Quasiparticle diffusion, edge losses, and back-tunneling in superconducting tunnel junctions under x-ray irradiation. Journal of Applied Physics, 1999, 86, 4580-4587.	2.5	18
11	Critical-current diffraction pattern of annular Josephson junctions. Physical Review B, 1997, 55, 82-84.	3.2	17
12	Annular Josephson junctions as superconductive nuclear particle detectors. Applied Physics Letters, 1997, 70, 1320-1322.	3.3	16
13	Random Telegraph Signal in Proton Irradiated Single-Photon Avalanche Diodes. IEEE Transactions on Nuclear Science, 2018, 65, 1654-1660.	2.0	16
14	Fiske steps in annular Josephson junctions with trapped flux quanta. Physical Review B, 1998, 58, 11685-11691.	3.2	15
15	Properties of Fe(Se,Te) Bicrystal Grain Boundary Junctions, SQUIDs, and Nanostrips. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.7	15
16	Current distribution in a parallel configuration superconducting strip-line detector. Applied Physics Letters, 2013, 103, .	3.3	14
17	Fiske modes in Josephson junctions. Physical Review B, 2006, 74, .	3.2	13
18	The effective dissipation in Nb/AlOx/Nb Josephson tunnel junctions by return current measurements. Journal of Applied Physics, 1997, 81, 7418-7426.	2.5	12

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19	Quantum waveguide theory of the Josephson effect in multiband superconductors. Physical Review B, 2015, 92, .	3.2	12
20	Fiske resonances in annular Josephson junctions. Physical Review B, 2000, 62, 8683-8686.	3.2	11
21	New Fluxon Resonant Mechanism in Annular Josephson Tunnel Structures. Physical Review Letters, 2004, 93, 187001.	7.8	11
22	Dynamics of nonequilibrium quasiparticles in a double superconducting tunnel junction detector. Superconductor Science and Technology, 2005, 18, 953-960.	3.5	11
23	Model prediction of high-temperature $\tilde{\epsilon}$ -states in iron pnictide superconductor-insulator-superconductor Josephson junctions. Europhysics Letters, 2013, 102, 47007.	2.0	11
24	Fraunhofer critical-current diffraction pattern in annular Josephson junctions with injected current. Physical Review B, 2002, 65, .	3.2	10
25	Kinetic Inductance Detectors for Mass Spectroscopy. IEEE Transactions on Applied Superconductivity, 2005, 15, 940-943.	1.7	10
26	On the magnetic field dependence of the critical current in small irregular polygonal Josephson junctions. Journal of Applied Physics, 1996, 80, 3401-3407.	2.5	9
27	Detection of single x-ray photons by an annular superconducting tunnel junction. Applied Physics Letters, 2001, 79, 2103-2105.	3.3	9
28	Investigations on particular Josephson devices shedding light on more fundamental issues. Physica C: Superconductivity and Its Applications, 2002, 367, 241-248.	1.2	9
29	Interplay Between as Grown Defects and Heavy Ion Induced Defects in YBCO Films. International Journal of Modern Physics B, 1999, 13, 1177-1182.	2.0	8
30	Magnetic dipole imaging by a scanning magnetic microscope. Measurement Science and Technology, 2008, 19, 015508.	2.6	8
31	Superconductive Three-Terminal Amplifier/Discriminator. IEEE Transactions on Applied Superconductivity, 2009, 19, 367-370.	1.7	8
32	Experimental evidence of photoinduced vortex crossing in current carrying superconducting strips. Physical Review B, 2015, 92, .	3.2	8
33	Excitation of large amplitude plasma waves in a plasma filled open resonator. Plasma Physics and Controlled Fusion, 1987, 29, 789-806.	2.1	7
34	Quasiparticle diffusion and edge losses in superconducting tunnel junction detectors with two active electrodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 15-18.	1.6	7
35	Current Induced Resistive State in Fe(Se,Te) Superconducting Nanostrips. Scientific Reports, 2017, 7, 4115.	3.3	7
36	Collisional Drag Can Prevent Plasma Oscillations from Breaking. Europhysics Letters, 1992, 19, 381-384.	2.0	6

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37	X-ray energy spectrum measurements by an annular superconducting tunnel junction with trapped magnetic flux quanta. Applied Physics Letters, 2004, 84, 5464-5466.	3.3	6
38	Frequency analysis of the dielectric constant of YBa ₂ Cu ₃ O ₇ Josephson junctions fabricated on bicrystalline substrates. Physical Review B, 2006, 74, .	3.2	6
39	Long baseline planar superconducting gradiometer for biomagnetic imaging. Applied Physics Letters, 2009, 95, 042502.	3.3	6
40	Theory of the electrical transport in tilted layered superconducting Josephson junctions. Physical Review B, 2012, 86, .	3.2	6
41	Parallel superconducting strip-line detectors: reset behaviour in the single-strip switch regime. Superconductor Science and Technology, 2014, 27, 044029.	3.5	6
42	Performances of compact integrated superconducting magnetometers for biomagnetic imaging. Journal of Applied Physics, 2008, 104, .	2.5	5
43	Quantum Interference in Single-Molecule Superconducting Field-Effect Transistors. Journal of Physical Chemistry C, 2018, 122, 11498-11504.	3.1	5
44	A beat wave experiment in an open resonator. Physica Scripta, 1990, T30, 122-126.	2.5	4
45	Two-particle tunneling current in Josephson junctions. Journal of Low Temperature Physics, 1995, 99, 81-105.	1.4	4
46	The role of the geometry in superconducting tunnel junction detectors. Superconductor Science and Technology, 2000, 13, 542-545.	3.5	4
47	Sensitivity and spatial resolution of square loop SQUID magnetometers. Physica C: Superconductivity and Its Applications, 2008, 468, 2328-2331.	1.2	4
48	Amplitude sensitive experiment of pairing symmetry in $d_{x^2-y^2}$ $\text{Ba}_{1-x}\text{Cu}_x\text{O}$ bicrystal grain boundary junctions. Superconductor Science and Technology, 2013, 26, 105013.	3.5	4
49	Advanced Room Temperature Single-Electron Transistor of a Germanium Nanochain with Two and Multitunnel Junctions. ACS Applied Electronic Materials, 2020, 2, 1843-1848.	4.3	4
50	BCS quasi-particle tunnelling current in Josephson tunnel junctions. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1992, 14, 395-410.	0.4	3
51	In-Plane Properties of (103)/(013) Oriented YBCO Films. International Journal of Modern Physics B, 1999, 13, 1091-1096.	2.0	3
52	Nonequilibrium superconducting detectors. Superconductor Science and Technology, 2006, 19, S152-S159.	3.5	3
53	NANO-SQUIDS based on niobium Dayem bridges for nanoscale applications. Journal of Physics: Conference Series, 2010, 234, 042010.	0.4	3
54	Fe(Se,Te) superconducting quantum interference devices. Superconductor Science and Technology, 2017, 30, 065003.	3.5	3

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55	Electronic properties of one-dimensional pentacene crystals. Nano Express, 2020, 1, 030002.	2.4	3
56	A Microwave-Driven Beat Wave Accelerator for Scaled Experiments. IEEE Transactions on Plasma Science, 1987, 15, 179-185.	1.3	2
57	Study of the effect of intrinsic and induced defects on the I_c - V characteristics of YBCO films. Physica C: Superconductivity and Its Applications, 2000, 332, 93-98.	1.2	2
58	Sampling and reconstruction schemes for biomagnetic sensor arrays. Physics in Medicine and Biology, 2002, 47, N239-N248.	3.0	2
59	Aluminum Superconducting Tunnel Junction as X-ray detector: Technological aspects and phonon decoupling from the substrate. , 2002, , .		2
60	Dynamical states in annular Josephson junctions: Amplitude dependence of zero field steps on the magnetic field. Physica C: Superconductivity and Its Applications, 2002, 372-376, 42-45.	1.2	2
61	Exact solution of the London equation for current carrying inhomogeneous cylindrical superconductors. Superconductor Science and Technology, 2003, 16, 1224-1227.	3.5	2
62	Annular superconducting tunnel junction with injected current as a new configuration of radiation detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 240-242.	1.6	2
63	NbN nanowire optical detectors for high speed applications. Journal of Physics: Conference Series, 2008, 97, 012264.	0.4	2
64	Critical current diffraction pattern of elliptic annular Josephson tunnel junctions. Physica C: Superconductivity and Its Applications, 2016, 520, 33-36.	1.2	2
65	Improving the electrical performance of PDI8-CN2 bottom-gate coplanar organic thin-film transistors. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	2
66	Andreev Spectroscopy of Molecular States in Resonant and Charge Accumulation Regime. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-7.	1.7	2
67	Instability of a quasi-neutral plasma soliton-like perturbation in the presence of an oscillating electric field. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 140, 242-244.	2.1	1
68	Sidelobe suppression in arbitrarily shaped quadrangle Josephson junctions. Journal of Low Temperature Physics, 1997, 106, 359-364.	1.4	1
69	Abrikosov Monopole Vortices and Their Images in a Circular Josephson Tunnel Junction. International Journal of Modern Physics B, 1999, 13, 1265-1270.	2.0	1
70	Current direction dependence of vortex pinning in (103)/(013) oriented YBCO films. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1349-1350.	1.2	1
71	Annular Josephson junctions for radiation detection: fabrication and investigation of the magnetic behaviour. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 476-479.	1.6	1
72	Annular superconducting tunnel junction detectors: Experimental results under X-ray illumination. , 2002, , .		1

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73	Characterization of YBCO bicrystal grain-boundary Josephson junctions on NdGaO ₃ substrate in terms of conventional superconductivity models. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 372-376, 91-94.	1.2	1
74	Location of the minimum of the differential tunneling resistance $\mathit{R(V)}$ in a superconductor-degenerate semiconductor Schottky contact. <i>European Physical Journal B</i> , 2003, 32, 309-314.	1.5	1
75	Recent achievements on annular Josephson structures and their application as radiation detectors. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 435, 118-124.	1.2	1
76	Fiske resonances in mesoscopic μm -grain boundary junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 437-438, 274-277.	1.2	1
77	Static and dynamic properties of annular Josephson junctions with injected current. <i>Physical Review B</i> , 2006, 73, .	3.2	1
78	Experimental characterization of NbN nanowire optical detectors with parallel stripline configuration. <i>Journal of Physics: Conference Series</i> , 2008, 97, 012265.	0.4	1
79	Scanning magnetic microscopy model analysis of circular flaws in thin metallic plates. <i>Journal of Applied Physics</i> , 2009, 106, 123913.	2.5	1
80	Low-frequency nondestructive analysis of cracks in multilayer structures using a scanning magnetic microscope. <i>Superconductor Science and Technology</i> , 2010, 23, 095010.	3.5	1
81	Random Telegraph Signal Investigation in Different CMOS SPAD Layouts. , 2018, , .		1
82	Two-particle structures in high quality Nb/AlO _x /Nb Josephson tunnel junctions. <i>Physica B: Condensed Matter</i> , 1994, 194-196, 1681-1682.	2.7	0
83	Multistability and hysteresis of non-linear electron oscillations induced in a rippled plasma. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1995, 17, 253-260.	0.4	0
84	Superconducting tunnel junction detectors: the quasiparticle diffusion in the nonlinear regime. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 355, 515-520.	1.6	0
85	Constants of motion in the dynamics of a 2N-junction SQUID. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 205, 224-228.	2.1	0
86	Investigation of Fiske steps of a Josephson tunnel junction with trapped Abrikosov vortices. <i>European Physical Journal D</i> , 1996, 46, 685-686.	0.4	0
87	Effect of vortex-pair fluctuations on zero-field current-voltage characteristics of YBCO films. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 2011-2012.	1.2	0
88	Effects of Quasiparticle Diffusion in Nb-Based Superconducting Tunnel Junctions Under X-Rays Irradiation. <i>International Journal of Modern Physics B</i> , 1999, 13, 1247-1252.	2.0	0
89	SOME ASPECTS OF SUPERCONDUCTIVE JUNCTION RADIATION DETECTORS. , 2000, , .		0
90	EFFECTS OF PINNING ANISOTROPY ON YBCO FILM CURRENT-VOLTAGE CHARACTERISTICS. <i>International Journal of Modern Physics B</i> , 2000, 14, 2803-2808.	2.0	0

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91	Fiske steps in Josephson junctions with alternating critical current density. Journal of Physics: Conference Series, 2006, 43, 1131-1134.	0.4	0
92	A double junction superconductive detector based on a single material. Journal of Physics: Conference Series, 2006, 43, 1307-1310.	0.4	0
93	Advanced superconducting optical detectors. Journal of Physics: Conference Series, 2006, 43, 1338-1341.	0.4	0
94	Injection-Detection Experiments in All Aluminum 1-D Imaging Spectrometers Based on Superconducting Tunnel Junctions. IEEE Transactions on Applied Superconductivity, 2007, 17, 302-305.	1.7	0
95	Self-resonant modes in Josephson junctions with a phase discontinuity. Low Temperature Physics, 2010, 36, 920-924.	0.6	0
96	Closed form solutions for the self-resonances in a short Josephson junction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1598-1601.	2.1	0
97	Influence of d-wave pairing on electrical properties of $d_{x^2-y^2}$ - d_{xy} submicron $YBa_2Cu_3O_{7-x}$ bicrystal grain boundary junctions. Journal of Physics: Conference Series, 2014, 507, 042036.	0.4	0
98	Scattering theory of the Josephson effect in iron based superconductors. Journal of Physics: Conference Series, 2014, 507, 012035.	0.4	0
99	Fabrication and Characterization of Fe(Se,Te) Josephson Devices and Nanostrips. , 2017, , .		0