

Giovanni Carapella

List of Publications by Year in descending order

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47
papers

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759055

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642610

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g-index

48
all docs

48
docs citations

48
times ranked

503
citing authors

#	ARTICLE	IF	CITATIONS
1	Ratchet Effect: Demonstration of a Relativistic Fluxon Diode. Physical Review Letters, 2001, 87, 077002.	2.9	95
2	Graphene field effect transistors with niobium contacts and asymmetric transfer characteristics. Nanotechnology, 2015, 26, 475202.	1.3	78
3	Relativistic flux quantum in a field-induced deterministic ratchet. Physical Review B, 2001, 63, .	1.1	43
4	Josephson effect in Nb/Al ₂ O ₃ /Al/MgB ₂ large-area thin-film heterostructures. Applied Physics Letters, 2002, 80, 2949-2951.	1.5	40
5	Experimental investigation of flux motion in exponentially shaped Josephson junctions. Physical Review B, 2002, 66, .	1.1	29
6	Low-field transport measurements in superconducting Co/Nb/Co trilayers. Physical Review B, 2008, 78, .	1.1	24
7	Phase locked fluxon-antifluxon states in stacked Josephson junctions. Applied Physics Letters, 1996, 69, 1300-1302.	1.5	22
8	Experimental realization of a relativistic fluxon ratchet. Physica C: Superconductivity and Its Applications, 2002, 382, 337-341.	0.6	21
9	Candida albicans/MWCNTs: A Stable Conductive Bio-Nanocomposite and Its Temperature-Sensing Properties. IEEE Nanotechnology Magazine, 2013, 12, 111-114.	1.1	20
10	Emergence and Evolution of Crystallization in TiO ₂ Thin Films: A Structural and Morphological Study. Nanomaterials, 2021, 11, 1409.	1.9	20
11	Josephson equations for the simplest superconducting multilayer system. Physica C: Superconductivity and Its Applications, 1996, 259, 349-355.	0.6	14
12	Fabrication of SrTiO ₃ Layer on Pt Electrode for Label-Free Capacitive Biosensors. Biosensors, 2018, 8, 26.	2.3	12
13	Fluxon-antifluxon state in stacked Josephson junctions. Physical Review B, 1999, 59, 1407-1416.	1.1	11
14	Low frequency transport measurements in $\text{GdSr}_{2}\text{RuCu}_{20}\text{O}_{8}$. European Physical Journal B, 2003, 31, 151-157.	0.6	10
15	Maximum supercurrent in two Josephson-junction stacks: Theory and experiment. Physical Review B, 1998, 58, 6497-6505.	1.1	9
16	Preparation and readout of a Josephson vortex in a double-well potential. Physical Review B, 2004, 70, .	1.1	8
17	Mutual phase locking on resonant flux-flow steps in stacked long Josephson junctions. Applied Physics Letters, 1997, 71, 3412-3414.	1.5	7
18	Probing Temperature-Dependent Recombination Kinetics in Polymer:Fullerene Solar Cells by Electric Noise Spectroscopy. Energies, 2017, 10, 1490.	1.6	7

#	ARTICLE	IF	CITATIONS
19	Coherent motion of homopolar solitons in parallel arrays of long Josephson junctions. <i>Physical Review B</i> , 1998, 58, 15094-15098.	1.1	6
20	Experimental investigation of double-barrier SINIS (superconductor-insulator-normal-insulator-superconductor) structures. <i>Journal of Physics Condensed Matter</i> , 2000, 12, L1-L7.	0.7	6
21	Proposal for a Nanoscale Superconductive Memory. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-4.	1.1	6
22	Observation of voltage-locked states in strongly coupled stacked Josephson junctions. <i>Applied Physics Letters</i> , 1998, 72, 377-379.	1.5	5
23	Microwave radiation from zero field singularities in stacks of two long Josephson junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 4558-4561.	1.1	5
24	Flux flow steps in a triangular cell of long Josephson junctions. <i>Applied Physics Letters</i> , 1999, 74, 90-92.	1.5	4
25	Normal-State Optical Features Study of Nd123 and Gd1212 HTSC Materials for Photonics and Metamaterials Fabrication. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-4.	1.1	4
26	Comparison of the Electric Noise Properties of Novel Superconductive Materials for Electronics Applications. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-4.	1.1	4
27	Satellite Fiske steps in Josephson oscillators driven by microwaves. <i>Physical Review B</i> , 2000, 61, 1516-1520.	1.1	3
28	Linear and nonlinear excitations in two stacks of parallel arrays of long Josephson junctions. <i>Physical Review B</i> , 2000, 62, 9095-9109.	1.1	3
29	Pseudo spin-valves with Al or Nb as spacer layer: GMR and search for spin switch behaviour. <i>European Physical Journal B</i> , 2007, 60, 61-66.	0.6	3
30	Experimental evidence for phase-locked states in stacked long Josephson junctions. <i>Journal of Low Temperature Physics</i> , 1997, 106, 345-352.	0.6	2
31	Coherent fluxon motion in parallel arrays of long Josephson junctions. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000, 80, 857-864.	0.6	1
32	Investigation of multiwalled carbon nanotube interconnection geometry and electrical characteristics of an CNT-filled aluminum microgap. <i>Canadian Journal of Physics</i> , 2014, 92, 827-831.	0.4	1
33	Voltage stability under current bias in superconducting microbridges. , 2017, , .		1
34	Raman Characterization of Melt-Textured Gd1212 Superconductors in the Normal State. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-4.	1.1	1
35	Stability of the zero voltage state in long Josephson junctions coupled to a microwave resonator. <i>Physica B: Condensed Matter</i> , 1994, 194-196, 67-68.	1.3	0
36	External magnetic field and self-field effects in stacked long Josephson junctions. <i>European Physical Journal D</i> , 1996, 46, 667-668.	0.4	0

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37	Interaction induced by nonuniform self-fields in stacks of two long Josephson junctions. IEEE Transactions on Applied Superconductivity, 1999, 9, 3953-3956.	1.1	0
38	PHASE LOCKING AND AC AMPLIFICATION OF SMALL JOSEPHSON JUNCTIONS. International Journal of Modern Physics B, 2000, 14, 3098-3103.	1.0	0
39	FLUXON DYNAMICS AND RESONANCES IN STACKED ARRAYS OF JOSEPHSON JUNCTIONS. International Journal of Modern Physics B, 2000, 14, 3026-3031.	1.0	0
40	Realization and characterization of tunnel junctions based on Nb/CuMn multilayers. Superconductor Science and Technology, 2001, 14, 794-797.	1.8	0
41	Microwave emission from two-stacked arrays of long Josephson junctions. IEEE Transactions on Applied Superconductivity, 2001, 11, 1203-1206.	1.1	0
42	Tunnel measurements on Nb/CuMn multilayer based planar junctions. Physica C: Superconductivity and Its Applications, 2002, 369, 317-320.	0.6	0
43	Tunnel junctions based on superconducting/magnetic multilayers. Physica C: Superconductivity and Its Applications, 2002, 372-376, 31-33.	0.6	0
44	Nb/NiCu bilayers in single and stacked superconductive tunnel junctions: preliminary results. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1103-E1105.	1.0	0
45	Spin polarized electron transport in a superconductor/ferromagnet junction with intermediate barrier strength. Superconductor Science and Technology, 2006, 19, 1191-1195.	1.8	0
46	Progress towards innovative and energy efficient logic circuits. Journal of Physics: Conference Series, 2020, 1559, 012009.	0.3	0
47	Inverse-Doped Melt-Textured Gd1212 Superconductors Samples: Normal State Raman Characterisation Study. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	0