

Miroslav Grajcar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

2,366
citations

28
h-index

46
g-index

107
ext. papers

2,531
ext. citations

3.1
avg. IF

4.07
L-index

#	Paper	IF	Citations
101	Zeeman-driven superconductor-insulator transition in strongly disordered MoC films: Scanning tunneling microscopy and transport studies in a transverse magnetic field. <i>Physical Review B</i> , 2020 , 102,	3.3	2
100	Investigation of Complex Conductivity of Strongly Disordered Superconducting Films by Broadband Flip-Chip Transmission Line Technique. <i>Acta Physica Polonica A</i> , 2020 , 137, 797-799	0.6	0
99	Observation of quantum corrections to conductivity up to optical frequencies. <i>Physical Review B</i> , 2019 , 100,	3.3	1
98	On the origin of in-gap states in homogeneously disordered ultrathin films. MoC case. <i>Applied Surface Science</i> , 2018 , 461, 143-148	6.7	3
97	Ferromagnetic resonance study of sputtered Pt/Co/Pt multilayers. <i>Applied Surface Science</i> , 2018 , 461, 202-205	6.7	2
96	Detection of Weak Microwave Fields with an Underdamped Josephson Junction. <i>Physical Review Applied</i> , 2017 , 7,	4.3	37
95	High Q value Quartz Tuning Fork in Vacuum as a Potential Thermometer in Millikelvin Temperature Range. <i>Journal of Low Temperature Physics</i> , 2017 , 187, 573-579	1.3	7
94	Fermionic scenario for the destruction of superconductivity in ultrathin MoC films evidenced by STM measurements. <i>Physical Review B</i> , 2016 , 93,	3.3	24
93	A microwave cryogenic low-noise amplifier based on sige heterostructures. <i>Technical Physics Letters</i> , 2016 , 42, 380-383	0.7	9
92	Experimental system design for the integration of trapped-ion and superconducting qubit systems. <i>Quantum Information Processing</i> , 2016 , 15, 5385-5414	1.6	8
91	Landau-Zener-Stückelberg-Majorana lasing in circuit quantum electrodynamics. <i>Physical Review B</i> , 2016 , 94,	3.3	20
90	A microwave splitter for superconducting quantum circuits. <i>Technical Physics Letters</i> , 2015 , 41, 314-316	0.7	3
89	Two-photon lasing by a superconducting qubit. <i>Physical Review B</i> , 2015 , 91,	3.3	11
88	Finite quasiparticle lifetime in disordered superconductors. <i>Physical Review B</i> , 2015 , 92,	3.3	18
87	Simulating long-distance entanglement in quantum spin chains by superconducting flux qubits. <i>Physical Review A</i> , 2015 , 91,	2.6	12
86	Amplification and attenuation of a probe signal by doubly dressed states. <i>Physical Review B</i> , 2014 , 89,	3.3	30
85	Parametric amplification by coupled flux qubits. <i>Applied Physics Letters</i> , 2014 , 104, 162604	3.4	16

84	Superconducting MoC thin films with enhanced sheet resistance. <i>Applied Surface Science</i> , 2014 , 312, 2166-2198	6.7	1
83	Superconducting properties of magnesium diboride thin film measured by using coplanar waveguide resonator. <i>Applied Surface Science</i> , 2014 , 312, 231-234	6.7	1
82	How to test the "quantumness" of a quantum computer?. <i>Frontiers in Physics</i> , 2014 , 2,	3.9	17
81	Superconductivity Near Transition to Insulating State in MoC Ultrathin Films Studied by Subkelvin STM. <i>Acta Physica Polonica A</i> , 2014 , 126, 368-369	0.6	
80	Dressed-state amplification by a single superconducting qubit. <i>Physical Review Letters</i> , 2013 , 110, 053602-4	7.4	42
79	Cryogenic low noise 2.2âGHz amplifier. <i>Cryogenics</i> , 2012 , 52, 362-365	1.8	3
78	Resonance features of coupled Josephson junctions: radiation and shunting. <i>Journal of Physics: Conference Series</i> , 2012 , 393, 012020	0.3	1
77	Vortex Avalanches Induced by Single High-Frequency Pulses in MgB2 Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011 , 24, 395-400	1.5	2
76	Cryogenic ultra-low-noise SiGe transistor amplifier. <i>Review of Scientific Instruments</i> , 2011 , 82, 104705	1.7	17
75	Multiphoton excitations and inverse population in a system of two flux qubits. <i>Physical Review B</i> , 2010 , 81,	3.3	14
74	Weak continuous monitoring of a flux qubit using coplanar waveguide resonator. <i>Physical Review B</i> , 2010 , 81,	3.3	34
73	Weak continuous measurements of multiqubits systems. <i>Quantum Information Processing</i> , 2009 , 8, 133-158		8
72	Sisyphus cooling and amplification by a superconducting qubit. <i>Nature Physics</i> , 2008 , 4, 612-616	16.2	95
71	Consistency of ground state and spectroscopic measurements on flux qubits. <i>Physical Review Letters</i> , 2008 , 101, 017003	7.4	74
70	Resonant excitations of single and two-qubit systems coupled to a tank circuit. <i>Physical Review B</i> , 2008 , 78,	3.3	30
69	Lower limit on the achievable temperature in resonator-based sideband cooling. <i>Physical Review B</i> , 2008 , 78,	3.3	43
68	Superconducting MgB2 weak links and superconducting quantum interference devices prepared by AFM nanolithography. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 789-792	1.3	4
67	A Characterization of Global Entanglement. <i>Quantum Information Processing</i> , 2007 , 6, 187-195	1.6	61

66	Controllable coupling of superconducting flux qubits. <i>Physical Review Letters</i> , 2007 , 98, 057004	7.4	145
65	MgB2 radio-frequency superconducting quantum interference device prepared by atomic force microscope lithography. <i>Applied Physics Letters</i> , 2007 , 91, 122502	3.4	3
64	Realization of a classical counterpart of a scalable design for adiabatic quantum computation. <i>Applied Physics Letters</i> , 2007 , 90, 022501	3.4	13
63	Adiabatic Quantum Computation With Flux Qubits, First Experimental Results. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 113-119	1.8	11
62	Measurement of the ground-state flux diagram of three coupled qubits as a first step towards the demonstration of adiabatic quantum computation. <i>Europhysics Letters</i> , 2006 , 76, 533-539	1.6	14
61	Switchable resonant coupling of flux qubits. <i>Physical Review B</i> , 2006 , 74,	3.3	56
60	Four-qubit device with mixed couplings. <i>Physical Review Letters</i> , 2006 , 96, 047006	7.4	66
59	Possible implementation of adiabatic quantum algorithm with superconducting flux qubits. <i>Physical Review B</i> , 2005 , 71,	3.3	41
58	Fabrication and Measurement of Aluminum and Niobium Based Single-Electron Transistors and Charge Qubits 2005 , 327-337		
57	Fabrication and Measurement of Aluminum and Niobium Based Single-Electron Transistors and Charge Qubits 2005 , 266-276		
56	Temperature effect on the quasiparticle spectrum of an impurity-doped superconductor with two separate electron groups. <i>Physical Review B</i> , 2005 , 72,	3.3	1
55	Supercurrent-phase relationship of a NbâHAs(2DES)âNb Josephson junction in overlapping geometry. <i>Physical Review B</i> , 2005 , 71,	3.3	11
54	Direct Josephson coupling between superconducting flux qubits. <i>Physical Review B</i> , 2005 , 72,	3.3	49
53	Quantum dynamics of the Interferometer-type charge qubit under microwave irradiation. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 876-879	1.8	5
52	Reading out the state inductively and microwave spectroscopy of an interferometer-type charge qubit. <i>Physical Review B</i> , 2004 , 70,	3.3	39
51	Low-frequency measurement of the tunneling amplitude in a flux qubit. <i>Physical Review B</i> , 2004 , 69,	3.3	60
50	Publisher's Note: Evidence for Entangled States of Two Coupled Flux Qubits [Phys. Rev. Lett. 93, 037003 (2004)]. <i>Physical Review Letters</i> , 2004 , 93,	7.4	2
49	Selective amplification of a quantum state. <i>Physical Review A</i> , 2004 , 70,	2.6	15

48	Observation of macroscopic Landau-Zener transitions in a superconducting device. <i>Europhysics Letters</i> , 2004 , 65, 844-849	1.6	55
47	Evidence for entangled states of two coupled flux qubits. <i>Physical Review Letters</i> , 2004 , 93, 037003	7.4	127
46	Radio-frequency method for investigation of quantum properties of superconducting structures. <i>Low Temperature Physics</i> , 2004 , 30, 620-628	0.7	37
45	Dynamic features of the phase-biased single-Cooper-pair transistor. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 934-937	1.8	
44	Low noise, low power consumption high electron mobility transistors amplifier, for temperatures below 1 K. <i>Review of Scientific Instruments</i> , 2003 , 74, 1145-1146	1.7	43
43	Microfabricated oscillator for radio-frequency microscopy with integrated magnetic field concentrator. <i>Review of Scientific Instruments</i> , 2003 , 74, 1282-1284	1.7	5
42	. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 1013-1016	1.8	1
41	Continuous monitoring of Rabi oscillations in a Josephson Flux qubit. <i>Physical Review Letters</i> , 2003 , 91, 097906	7.4	131
40	Paramagnetic effect in YBa ₂ Cu ₃ O _{7-δ} grain-boundary junctions. <i>Physical Review B</i> , 2003 , 68,	3.3	8
39	Dephasing effects in superconducting heterojunctions: a crossover from coherent to sequential transmission. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 367, 218-221	1.3	2
38	Superconducting gap parameters of MgB ₂ obtained on MgB ₂ /Ag and MgB ₂ /In junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 368, 251-254	1.3	22
37	Superconducting transport properties of YBCO grain boundary Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 368, 267-270	1.3	3
36	Superconducting current-phase relation of Nb/Au/(001) YBaCuO heterojunctions. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 368, 271-275	1.3	1
35	Supercurrent-phase relation of a Nb/InAs(2DEG)/Nb Josephson junction. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 372-376, 27-30	1.3	9
34	Dynamic features of a charge qubit closed by a superconducting inductive ring. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002 , 303, 352-357	2.3	18
33	Characterization of superconducting structures designed for qubit realizations. <i>Applied Physics Letters</i> , 2002 , 80, 4184-4186	3.4	33
32	Method for direct observation of coherent quantum oscillations in a superconducting phase qubit. <i>Physical Review B</i> , 2002 , 66,	3.3	23
31	Observation of the second harmonic in superconducting current-phase relation of Nb/Au/(001)YBa ₂ Cu ₃ O _x heterojunctions. <i>Europhysics Letters</i> , 2002 , 57, 585-591	1.6	37

30	Low-frequency characterization of quantum tunneling in flux qubits. <i>Physical Review B</i> , 2002 , 66,	3-3	55
29	Asymmetric double-barrier $\text{Nb}/\text{Al}/\text{Nb}$ Josephson heterojunctions: experiment and theory. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 350, 187-192	1-3	5
28	Charge transport across a mesoscopic superconductor-normal metal junction: coherence and decoherence effects. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 1592-1595	1-3	3
27	Current-phase relation in Nb-Al based SINIS-type Josephson junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 1142-1145	1.8	
26	Degenerate ground state in a mesoscopic $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ grain boundary Josephson junction. <i>Physical Review Letters</i> , 2001 , 86, 5369-72	7-4	149
25	Photoinduced insulator-metal transition in $\text{La}_{0.81}\text{MnO}_3/\text{Al}_2\text{O}_3/\text{Nb}$ tunnel junctions. <i>Applied Physics Letters</i> , 2001 , 78, 1712-1714	3-4	13
24	Screw dislocation-induced enhancement of the c-axis critical current in anisotropic superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 329, 5-11	1-3	1
23	Supercurrent-phase relation of an Nb/ AlO_x /Al/ AlO_x /Nb-based Josephson junction at the superconducting transition of the Al Interlayer. <i>Physical Review B</i> , 2000 , 62, R14645-R14648	3-3	5
22	Temperature-dependent transport characteristics of quasiballistic normal-metal-superconductor junctions. <i>Physical Review B</i> , 2000 , 61, 3259-3262	3-3	5
21	Anomalous periodicity of the current-phase relationship of grain-boundary Josephson junctions in high- T_c superconductors. <i>Physical Review B</i> , 1999 , 60, 3096-3099	3-3	65
20	Influence of illumination on the properties of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$ bicrystal grain boundary junction. <i>Applied Physics Letters</i> , 1999 , 74, 3869-3871	3-4	4
19	Phase-coherent charge transport in superconducting heterocontacts. <i>Physical Review B</i> , 1999 , 59, 9617-9626	3-3	28
18	Influence of bias voltage history on conductance properties of YBaCuO /normal metal junctions. <i>Physica C: Superconductivity and Its Applications</i> , 1998 , 301, 234-242	1-3	20
17	Influence of degraded surface layer of HTS on differential conductance of HTS/metal junctions 1998 , 3480, 67		1
16	Tunneling and Point Contact Spectroscopy of High- T_c Superconducting Thin Films. <i>Acta Physica Polonica A</i> , 1998 , 93, 355-363	0.6	1
15	Asymmetry and quasilinear background of differential conductance characteristics of high- T_c -superconductor/metal tunnel junctions. <i>Physical Review B</i> , 1997 , 55, 11738-11744	3-3	11
14	The influence of bias voltage on $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ /metal point contact interface. <i>Journal of Alloys and Compounds</i> , 1997 , 251, 129-133	5-7	
13	The influence of external bias voltage on electrical properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ /metal point contact interface. <i>Journal of Low Temperature Physics</i> , 1997 , 106, 277-283	1-3	1

12	Peculiarities of tunneling characteristics observed in HTS/metal point contact junctions. <i>Physica C: Superconductivity and Its Applications</i> , 1997 , 282-287, 1481-1482	1.3	2
11	Origin of linear background measured on YBaCuO-Au point contact junctions. <i>European Physical Journal D</i> , 1996 , 46, 1333-1334		1
10	Bias voltage asymmetry of inelastic differential conductivity of HTS/metal tunnel junctions. <i>European Physical Journal D</i> , 1996 , 46, 1017-1018		1
9	Modification of YBa ₂ Cu ₃ O _{7-δ} -Au point contact interface properties by applied electric voltage. <i>Physica B: Condensed Matter</i> , 1996 , 218, 209-212	2.8	10
8	Superconducting parameters of YBCO and BSCCO from tunneling spectroscopy. <i>Physica B: Condensed Matter</i> , 1996 , 218, 224-227	2.8	7
7	Point contact investigation on Bi ₂ Sr ₂ CaCu ₂ O _{8+y} thin films. <i>Journal of Superconductivity and Novel Magnetism</i> , 1995 , 8, 643-644		
6	Influence of inelastic effects on differential conductance of a high-T _c superconductor/metal junction. <i>Physical Review B</i> , 1995 , 51, 16185-16189	3.3	15
5	Finite-quasiparticle-lifetime effects in the differential conductance of Bi ₂ Sr ₂ CaCu ₂ O _y /Au junctions. <i>Physical Review B</i> , 1994 , 49, 10016-10019	3.3	170
4	Study of point contacts with Au-tip on YBa ₂ Cu ₃ O _x and Bi ₂ Sr ₂ CaCu ₂ O _y thin films. <i>Physica B: Condensed Matter</i> , 1994 , 194-196, 2415-2416	2.8	1
3	Time evolution of point contact resistances of high-T _c superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1993 , 218, 82-86	1.3	15
2	Surface degradation of YBa ₂ Cu ₃ O _{7-δ} observed by means of contact resistance measurement. <i>Solid State Communications</i> , 1992 , 81, 191-194	1.6	14
1	The energy gap depression in YBa ₂ Cu ₃ O _{7-δ} /metal contacts. <i>Solid State Communications</i> , 1991 , 78, 809-813		20