

Yu M Shukrinov

List of Publications by Year in descending order

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113
papers

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430442

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113
all docs

113
docs citations

113
times ranked

250
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Coupling between Junctions on Breakpoint Current in Intrinsic Josephson Junctions. Physical Review Letters, 2007, 98, 157001.	2.9	58
2	Investigation of the breakpoint region in stacks with a finite number of intrinsic Josephson junctions. Physical Review B, 2007, 75, .	1.1	51
3	Magnetization reversal by superconducting current in \tilde{I}_c Josephson junctions. Applied Physics Letters, 2017, 110, .	1.5	46
4	Equidistance of branch structure in capacitively coupled Josephson junctions model with diffusion current. Physica C: Superconductivity and Its Applications, 2006, 449, 62-66.	0.6	43
5	Ferromagnetic resonance and magnetic precessions in \tilde{I}_c Josephson junctions. Physical Review B, 2019, 99, .	1.1	32
6	Structure of the breakpoint region on current-voltage characteristics of intrinsic Josephson junctions. Physical Review B, 2008, 78, .	1.1	30
7	Structured chaos in a devil's staircase of the Josephson junction. Chaos, 2014, 24, 033115.	1.0	30
8	Branching in current-voltage characteristics of intrinsic Josephson junctions. Superconductor Science and Technology, 2007, 20, S38-S42.	1.8	25
9	Re-orientation of the easy axis in \tilde{I}_c \tilde{I}_c -junction. Europhysics Letters, 2018, 122, 37001.	0.7	25
10	Analytical Criteria for Magnetization Reversal in a \tilde{I}_c Josephson Junction. Physical Review Applied, 2020, 14, .	1.5	22
11	Anomalous Josephson effect. Physics-Uspexhi, 2022, 65, 317-354.	0.8	22
12	Influence of coupling parameter on current-voltage characteristics of intrinsic Josephson junctions in high- T_c superconductors. Physica C: Superconductivity and Its Applications, 2006, 434, 6-12.	0.6	21
13	Experimental manifestation of the breakpoint region in the current-voltage characteristics of intrinsic Josephson junctions. Applied Physics Letters, 2008, 93, 152510.	1.5	21
14	Devil's staircases and continued fractions in Josephson junctions. Physical Review B, 2013, 88, .	1.1	21
15	Diffusion current in a system of coupled Josephson junctions. Journal of Experimental and Theoretical Physics, 2012, 115, 289-302.	0.2	20
16	Devil's staircase and the absence of chaos in the dc- and ac-driven overdamped Frenkel-Kontorova model. Physical Review E, 2017, 96, 022210.	0.8	20
17	Effect of interjunction coupling on superconducting current and charge correlations in intrinsic Josephson junctions. Physical Review B, 2009, 80, .	1.1	19
18	Modeling of \tilde{I}_c -shunted intrinsic Josephson junctions in high- T_c \tilde{I}_c superconductors. Superconductor Science and Technology, 2017, 30, 024006.	1.8	19

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19	Charging of superconducting layers and resonance-related hysteresis in the current-voltage characteristics of coupled Josephson junctions. <i>Physical Review B</i> , 2011, 84, .	1.1	18
20	Josephson junction detectors for Majorana modes and Dirac fermions. <i>Physical Review B</i> , 2015, 92, .	1.1	18
21	Electrical control of magnetization in superconductor/ferromagnet/superconductor junctions on a three-dimensional topological insulator. <i>Physical Review B</i> , 2019, 100, .	1.1	16
22	Periodicity in the Appearance of Intervals of the Reversal of the Magnetic Moment of a $\bar{0}$ Josephson Junction. <i>JETP Letters</i> , 2019, 110, 722-726.	0.4	16
23	Effects of LC shunting on the Shapiro steps features of Josephson junction. <i>Europhysics Letters</i> , 2015, 110, 47001.	0.7	15
24	Inertial effects in the dc+ac driven underdamped Frenkel-Kontorova model: Subharmonic steps, chaos, and hysteresis. <i>Physical Review E</i> , 2019, 99, 022206.	0.8	15
25	Magnetization-induced dynamics of a Josephson junction coupled to a nanomagnet. <i>Physical Review B</i> , 2017, 96, .	1.1	14
26	Devil's staircases in the IV characteristics of superconductor/ferromagnet/superconductor Josephson junctions. <i>Physical Review B</i> , 2018, 97, .	1.1	14
27	Manifestation of resonance-related chaos in coupled Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 3609-3619.	0.9	13
28	Onset of chaos in intrinsic Josephson junctions. <i>Chaos, Solitons and Fractals</i> , 2013, 48, 32-37.	2.5	13
29	Structured Chaos in 1-D Stacks of Intrinsic Josephson Junctions Irradiated by Electromagnetic Waves. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 349-354.	0.8	13
30	Ferromagnetic Resonance and the Dynamics of the Magnetic Moment in a $\bar{0}$ Josephson Junctionâ€”Nanomagnetâ€”System. <i>JETP Letters</i> , 2019, 110, 160-165.	0.4	12
31	Vortex Structures in Exponentially Shaped Josephson Junctions. <i>Journal of Low Temperature Physics</i> , 2005, 139, 299-307.	0.6	11
32	Double resonance in the system of coupled Josephson junctions. <i>JETP Letters</i> , 2013, 96, 588-595.	0.4	11
33	Magnetization reversal in superconductor/insulating ferromagnet/superconductor Josephson junctions on a three-dimensional topological insulator. <i>Physical Review B</i> , 2020, 102, .	1.1	11
34	Quasiparticle current and phase locking of intrinsic Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2001, 362, 102-107.	0.6	10
35	Some chaotic features of intrinsically coupled Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2013, 491, 63-65.	0.6	9
36	Coupling of intrinsic Josephson junctions and subgap structure in the currentâ€”voltage characteristics of high-Tc superconductors. <i>Superconductor Science and Technology</i> , 2002, 15, 178-182.	1.8	8

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37	Charge creation and nucleation of the longitudinal plasma wave in coupled Josephson junctions. Europhysics Letters, 2010, 92, 37010.	0.7	8
38	Calculation of the plasma frequency of a stack of coupled Josephson junctions irradiated with electromagnetic waves. Physical Review B, 2012, 86, .	1.1	8
39	ac-driven annular Josephson junctions: The missing Shapiro steps. Physical Review B, 2020, 101, .	1.1	8
40	Locking of magnetization and Josephson oscillations at ferromagnetic resonance in a μ -junction under external radiation. Physical Review B, 2022, 106, .	1.1	8
41	Phase dynamics of two parallel stacks of coupled Josephson junctions. Superconductor Science and Technology, 2014, 27, 124007.	1.8	7
42	A Farey staircase from the two-extremum return map of a Josephson junction. Nonlinear Dynamics, 2016, 84, 1363-1372.	2.7	7
43	Josephson junction with two superconducting current components. Journal of Experimental and Theoretical Physics, 2017, 125, 333-339.	0.2	7
44	Superconducting Spintronics in the Presence of Spin-Orbital Coupling. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	7
45	Spontaneous and Controlled Chaos Synchronization in Intrinsic Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.1	7
46	Chaos along the rc-branch of RLC-shunted intrinsic Josephson junctions. Chaos, Solitons and Fractals, 2022, 156, 111865.	2.5	7
47	Anomalous Gilbert damping and Duffing features of the superconductor-ferromagnet-superconductor μ -Josephson junction. Physical Review B, 2021, 104, .	1.1	7
48	Experimental observation of the longitudinal plasma excitation in intrinsic Josephson junctions. Journal of Physics: Conference Series, 2008, 129, 012029.	0.3	6
49	Influence of the diffusion current on the hysteretic behavior in the system of coupled Josephson junctions. JETP Letters, 2010, 92, 327-331.	0.4	6
50	Experimental and theoretical investigation on high-Tc superconducting intrinsic Josephson junctions. Journal of Physics: Conference Series, 2010, 248, 012038.	0.3	6
51	The c-axis charge traveling wave in a coupled system of Josephson junctions. JETP Letters, 2012, 95, 307-313.	0.4	6
52	Parametric resonance in the system of long Josephson junctions. JETP Letters, 2014, 99, 632-639.	0.4	6
53	Dynamics of a SQUID with topologically nontrivial barriers. JETP Letters, 2016, 103, 395-398.	0.4	6
54	Resonance Properties of the Josephson Junctions with Ferromagnets. Physics of Particles and Nuclei, 2020, 51, 816-822.	0.2	6

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55	Kapitza pendulum effects in a Josephson junction coupled to a nanomagnet under external periodic drive. <i>Physical Review B</i> , 2022, 105, .	1.1	6
56	Modeling of tunneling spectroscopy in high-T[sub C] superconductors. <i>Low Temperature Physics</i> , 2001, 27, 10.	0.2	5
57	Static vortices in long Josephson junctions of exponentially varying width. <i>Low Temperature Physics</i> , 2004, 30, 456-462.	0.2	5
58	Branch structure of IV-characteristics in the capacitively coupled Josephson junctions model with the diffusion current. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 1301-1302.	0.6	5
59	Created-by-current states in long Josephson junctions. <i>Europhysics Letters</i> , 2008, 83, 47008.	0.7	5
60	Simulation of Current Voltage Characteristics of Intrinsic Josephson Junctions in HTSC. <i>Lecture Notes in Computer Science</i> , 2012, , 234-239.	1.0	5
61	Effect of inductive and capacitive coupling on the current-voltage characteristic and electromagnetic radiation from a system of Josephson junctions. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 124, 131-138.	0.2	5
62	Effect of magnetic field and Rashba spin-orbit interaction on the Josephson tunneling between superconducting nanowires. <i>Physical Review B</i> , 2017, 96, .	1.1	5
63	Numerical Simulation of the Stiff System of Equations Within the Spintronic Model. <i>Lecture Notes in Computer Science</i> , 2019, , 301-308.	1.0	5
64	Double and triple resonance behaviour in large systems of LC-shunted intrinsic Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 387, 127025.	0.9	5
65	Numerical Study of Fluxon Solutions of Sine-Gordon Equation under the Influence of the Boundary Conditions. <i>Lecture Notes in Computer Science</i> , 2012, , 201-206.	1.0	5
66	Common features of a vortex structure in long exponentially shaped Josephson junctions and Josephson junctions with inhomogeneities. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 1317-1318.	0.6	4
67	Resonance features of coupled Josephson junctions: radiation and shunting. <i>Journal of Physics: Conference Series</i> , 2012, 393, 012020.	0.3	4
68	Mathematical modeling of intrinsic Josephson junctions with capacitive and inductive couplings. <i>Journal of Physics: Conference Series</i> , 2012, 393, 012022.	0.3	4
69	Breathing charge density waves in intrinsic Josephson junctions. <i>JETP Letters</i> , 2014, 98, 551-556.	0.4	4
70	Staircase Structure of Shapiro Steps. <i>JETP Letters</i> , 2015, 102, 803-806.	0.4	4
71	Chaos induced by coupling between Josephson junctions. <i>JETP Letters</i> , 2015, 101, 251-257.	0.4	4
72	Chimera States in an Intrinsically Coupled Stack of Josephson Junctions. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 1659-1663.	0.8	4

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73	Dependence of the maximal superconducting current on the resonance frequency in a shunted Josephson junction. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 125, 781-788.	0.2	4
74	Peculiarities of IV-characteristics and magnetization dynamics in the $\tilde{\Gamma}0$ Josephson junction. <i>Low Temperature Physics</i> , 2020, 46, 932-938.	0.2	4
75	Resonance phenomena in an annular array of underdamped Josephson junctions. <i>Physical Review B</i> , 2020, 101, .	1.1	4
76	Numerical Study of Magnetic Flux in the LJJ Model with Double Sine-Gordon Equation. <i>Lecture Notes in Computer Science</i> , 2011, , 347-352.	1.0	4
77	Collective Dynamics of Intrinsic Josephson Junctions in HTSC. <i>Journal of Physics: Conference Series</i> , 2006, 43, 1143-1146.	0.3	3
78	Numerical modeling of long Josephson junctions in the frame of double sine-gordon equation. <i>Mathematical Models and Computer Simulations</i> , 2011, 3, 389-398.	0.1	3
79	Shapiro step at nonequilibrium conditions. <i>Europhysics Letters</i> , 2016, 115, 20003.	0.7	3
80	Determination of Cooper pairs and Majorana fermions currents ratio in dc SQUID with topologically nontrivial barriers. <i>Low Temperature Physics</i> , 2017, 43, 824-828.	0.2	3
81	User Software for Numerical Study of Josephson Junction with Magnetic Momenta. <i>EPJ Web of Conferences</i> , 2018, 173, 05002.	0.1	3
82	Ferromagnetic Resonance and Effect of Supercurrent on the Magnetization Dynamics in S/F/S Junctions under Circularly Polarized Magnetic Field. <i>Physics of Particles and Nuclei Letters</i> , 2020, 17, 79-84.	0.1	3
83	Vortex structure in a long Josephson junction with two inhomogeneities. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 1315-1316.	0.6	2
84	Breakpoint phenomenon in layered superconductors. <i>Journal of Physics: Conference Series</i> , 2008, 129, 012034.	0.3	2
85	Shapiro and parametric resonances in coupled Josephson junctions. <i>Journal of Physics: Conference Series</i> , 2012, 393, 012021.	0.3	2
86	Numerical Study of a System of Long Josephson Junctions with Inductive and Capacitive Couplings. <i>EPJ Web of Conferences</i> , 2016, 108, 02038.	0.1	2
87	Cascade of parametric resonances in coupled Josephson junctions. <i>Low Temperature Physics</i> , 2016, 42, 446-452.	0.2	2
88	Microwave induced tunable subharmonic steps in superconductor-ferromagnet-superconductor Josephson junction. <i>Low Temperature Physics</i> , 2019, 45, 1246-1251.	0.2	2
89	Tunneling in HTS junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 1998, 8, 142-145.	1.1	1
90	The influence of microwave irradiation power on current-voltage characteristics of intrinsic Josephson junctions. <i>Superconductor Science and Technology</i> , 2007, 20, S74-S78.	1.8	1

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91	Current-voltage characteristics of intrinsic Josephson junctions with charge-imbalance effect. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1303-1304.	0.6	1
92	New features in collective dynamics of intrinsic Josephson junctions. Journal of Physics and Chemistry of Solids, 2008, 69, 3205-3207.	1.9	1
93	Influence of position and parameters of inhomogeneities on vortex structure in long Josephson junctions. Journal of Physics: Conference Series, 2008, 129, 012036.	0.3	1
94	Interconnection between static regimes in the LJJs described by the double sine-Gordon equation. Journal of Physics: Conference Series, 2012, 393, 012023.	0.3	1
95	Proximity Effect in BSCCO Intrinsic Josephson Junctions Contacted with a Normal Metal Layer. Physics Procedia, 2012, 36, 205-210.	1.2	1
96	Effect of microwave irradiation on parametric resonance in intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2013, 491, 56-58.	0.6	1
97	Modeling of Intrinsic Josephson Junctions in High Temperature Superconductors under External Radiation in the Breakpoint Region. EPJ Web of Conferences, 2016, 108, 02042.	0.1	1
98	Simulation of Collective Excitations in Long Josephson Junction Stacks. EPJ Web of Conferences, 2018, 173, 06011.	0.1	1
99	Shift of Shapiro Step in High Critical Temperature Superconductors. EPJ Web of Conferences, 2018, 173, 03015.	0.1	1
100	Features of the Dynamics of a System of Coupled Josephson Junctions with Topologically Trivial and Nontrivial Barriers: Manifestation of the Majorana Mode. JETP Letters, 2019, 109, 33-39.	0.4	1
101	Stationary charge imbalance effect in a system of coupled Josephson junctions. Europhysics Letters, 2019, 127, 67004.	0.7	1
102	Simulation of Shapiro Steps in Current-Voltage Characteristics of Intrinsic Josephson Junctions in High Temperature Superconductors. Lecture Notes in Computer Science, 2012, , 221-226.	1.0	1
103	Coordinate transformation in the model of long Josephson junctions: geometrically equivalent Josephson junctions. Low Temperature Physics, 2005, 31, 847-851.	0.2	0
104	Breakpoint region in the IV-characteristics of intrinsic Josephson junctions. Journal of Physics: Conference Series, 2008, 97, 012124.	0.3	0
105	Tunneling in superconducting structures. Physics of Particles and Nuclei, 2010, 41, 1071-1074.	0.2	0
106	Phase dynamics modeling of parallel stacks of Josephson junctions. Physics of Particles and Nuclei Letters, 2014, 11, 797-800.	0.1	0
107	Model of stacked long Josephson junctions: Parallel algorithm and numerical results in case of weak coupling. AIP Conference Proceedings, 2016, , .	0.3	0
108	Synchronization and Chaos Control Features in Arrays of Intrinsic Josephson Junctions. , 2017, , .		0

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109	Publisher's Note: Josephson junction detectors for Majorana modes and Dirac fermions [Phys. Rev. B 92 , 224501 (2015)]. Physical Review B, 2018, 97, .	1.1	0
110	Magnetization Dynamics Features in the SFS $\bar{0}$ Josephson Junction. , 2020, , .		0
111	10.1007/s11454-008-1002-9. , 2010, 53, 7.		0
112	International Conference on Theoretical Physics Dubna-Nano 2010. Journal of Physics: Conference Series, 2010, 248, 011001.	0.3	0
113	Electrical Measurements of the Dimensions of Nanostructures. NATO Science for Peace and Security Series A: Chemistry and Biology, 2018, , 91-98.	0.5	0