

Marat B Gaifullin

List of Publications by Year in descending order

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66
docs citations

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times ranked

640
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic flux quantum periodicity of the frequency of the on-chip detectable electromagnetic radiation from superconducting flux-flow-oscillators. Applied Physics Letters, 2020, 117, 142601.	3.3	4
2	Morphological imperfections of epitaxial graphene: from a hindrance to the generation of new photo-responses in the visible domain. Nanoscale, 2017, 9, 11463-11474.	5.6	11
3	Microwave Generation in Synchronized Semiconductor Superlattices. Physical Review Applied, 2017, 7, .	3.8	12
4	Magnetic field tunable vortex diode made of YBa ₂ Cu ₃ O _{7-δ} Josephson junction asymmetrical arrays. Applied Physics Letters, 2017, 111, .	3.3	10
5	The emergence of quantum capacitance in epitaxial graphene. Journal of Materials Chemistry C, 2016, 4, 5829-5838.	5.5	13
6	Subterahertz Chaos Generation by Coupling a Superlattice to a Linear Resonator. Physical Review Letters, 2014, 112, 116603.	7.8	48
7	Charged nano-domes and bubbles in epitaxial graphene. Nanotechnology, 2014, 25, 165704.	2.6	23
8	Controlled dynamics of sine-Gordon breather in long Josephson junctions. European Physical Journal B, 2012, 85, 1.	1.5	14
9	Controlling High-Frequency Collective Electron Dynamics via Single-Particle Complexity. Physical Review Letters, 2012, 109, 024102.	7.8	29
10	Development of Near-Field Microwave Microscope with the Functionality of Scanning Tunneling Spectroscopy. Japanese Journal of Applied Physics, 2010, 49, 116701.	1.5	5
11	Local Measurement of Microwave Response with Local Tunneling Spectra Using Near Field Microwave Microscopy. Applied Physics Express, 2009, 2, 025006.	2.4	6
12	JOSEPHSON PLASMA RESONANCE SPECTROSCOPY OF THE LAYERED SUPERCONDUCTORS WITH INTRINSIC JOSEPHSON EFFECT. International Journal of Modern Physics B, 2009, 23, 4365-4383.	2.0	2
13	Collective responses of Bi-2212 stacked junction to 100 GHz microwave radiation under magnetic field oriented along the c-axis. JETP Letters, 2009, 89, 249-252.	1.4	4
14	Spatial correlation between impurity states and energy gap distribution in Bi ₂ Sr ₂ Ca(Cu _{1-x} Zn _x) ₂ O _{8+δ} (x =) T _J E ₀ / Overl		
15	Dynamical behavior of Josephson vortices mediated with pancake vortices in Bi-2212. Journal of Physics: Conference Series, 2009, 150, 052070.	0.4	0
16	Disorder and c-axis quasiparticle dynamics in underdoped Bi ₂ Sr ₂ CaCu ₂ O ₈ . Journal of Physics: Conference Series, 2009, 150, 052277.	0.4	0
17	JOSEPHSON PLASMA RESONANCE SPECTROSCOPY OF THE LAYERED SUPERCONDUCTORS WITH INTRINSIC JOSEPHSON EFFECT. , 2009, , .		0
18	Josephson fluxon pump: Theoretical aspects and experimental implementation of elementary flux quanta generator with BSCCO. Physica C: Superconductivity and Its Applications, 2008, 468, 1903-1906.	1.2	12

#	ARTICLE	IF	CITATIONS
19	Synchronization in stacked array of the Josephson junctions in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Physica C: Superconductivity and Its Applications, 2008, 468, 1896-1898.	1.2	6
20	Molecular implantation using a laser-induced molecular micro-jet. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 193, 42-49.	3.9	5
21	Controlling the dynamical behaviors of Josephson vortices. Journal of Physics: Conference Series, 2008, 129, 012031.	0.4	0
22	c-axis coupling in underdoped Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ with varying degrees of disorder. Physical Review B, 2008, 77, .	3.2	3
23	Josephson-vortex flow in Bi ₂ Sr ₂ CaCu ₂ O ₈ + y . Superconductor Science and Technology, 2007, 20, S43-S47.	3.5	1
24	Nonlinear Nanodevices Using Magnetic Flux Quanta. Physical Review Letters, 2007, 99, 207003.	7.8	75
25	Josephson vortices in annular-type intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2007, 463-465, 276-280.	1.2	1
26	Josephson-vortex dynamics in intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2007, 460-462, 764-765.	1.2	0
27	Role of pair-breaking and phase fluctuations in c-axis tunneling in underdoped Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Physica C: Superconductivity and Its Applications, 2007, 460-462, 876-877.	1.2	0
28	Vortex flow in micro-fabricated Bi ₂ Sr ₂ CaCu ₂ O ₈ + y single-crystal thin films. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1220-1221.	1.2	2
29	Vortex solid-liquid transition in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ with a high density of strong pins. Physical Review B, 2004, 69, .	3.2	9
30	Shapiro step response in the vortex state of Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Physica B: Condensed Matter, 2003, 329-333, 1330-1331.	2.7	1
31	Shapiro step response in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ in parallel and tilted magnetic field. Physica C: Superconductivity and Its Applications, 2003, 392-396, 319-322.	1.2	6
32	Vortex Fluctuations in Underdoped Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ Crystals. Physical Review Letters, 2003, 90, 137002.	7.8	28
33	Novel features of Josephson flux flow in Bi-2212: contribution of in-plane dissipation, coherent response to mm-wave radiation, size effect. Physica C: Superconductivity and Its Applications, 2002, 367, 365-375.	1.2	17
34	Josephson plasma resonance in underdoped Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ crystals. Physica C: Superconductivity and Its Applications, 2002, 369, 236-239.	1.2	5
35	Josephson plasma resonance crossing the second peak; first order nature of the Bragg-to-vortex glass transition. Physica C: Superconductivity and Its Applications, 2001, 357-360, 432-434.	1.2	0
36	Josephson plasma resonance in Nd _{1.85} Ce _{0.15} CuO ₄ + δ single crystals. Physica C: Superconductivity and Its Applications, 2001, 357-360, 520-522.	1.2	2

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37	Vortex state of high-T _c superconductors studied by Josephson plasma resonance. <i>Physica C: Superconductivity and Its Applications</i> , 2001, 362, 64-70.	1.2	5
38	c-Electron transport in Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} and Bi ₂ Sr ₂ CuO _{6+δ} probed by Josephson plasma resonance. <i>Physica C: Superconductivity and Its Applications</i> , 2001, 362, 228-233.	1.2	6
39	The c-axis coherent response of Bi-2212 Josephson flux-flow junction to mm-wave radiation. <i>Superconductor Science and Technology</i> , 2001, 14, 1018-1021.	3.5	3
40	Anisotropy of the Superconducting Order Parameter in (BEDT-TTF) ₂ Cu(NCS) ₂ . <i>Physical Review Letters</i> , 2001, 86, 3451-3451.	7.8	22
41	Comment on "Millimeter-Wave Magneto-Optical Determination of the Anisotropy of the Superconducting Order Parameter in the Molecular Superconductor (BEDT-TTF) ₂ Cu(NCS) ₂ ". <i>Physical Review Letters</i> , 2001, 86, 3452-3452.	7.8	17
42	Critical current and Josephson plasma resonance in the vortex glass phase of Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . <i>Physical Review B</i> , 2001, 63, .	3.2	5
43	Shapiro Step Response in the Coherent Josephson Flux Flow State of Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . <i>Physical Review Letters</i> , 2001, 87, 247007.	7.8	55
44	Josephson plasma resonance spectroscopy in Bi-based cuprates. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 933-934.	2.7	1
45	c-Axis superfluid response and quasiparticle conductivities in Bi:2212 and Bi:2201 probed by Josephson plasma resonance. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 620-621.	2.7	0
46	Abrupt Change of Josephson Plasma Frequency at the Phase Boundary of the Bragg Glass in Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . <i>Physical Review Letters</i> , 2000, 84, 2945-2948.	7.8	131
47	c-Axis Superfluid Response and Quasiparticle Damping of Underdoped Bi:2212 and Bi:2201. <i>Physical Review Letters</i> , 1999, 83, 3928-3931.	7.8	79
48	Josephson coupling in the vortex-liquid state of Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} with columnar defects. <i>Physical Review B</i> , 1999, 59, 8970-8977.	3.2	21
49	c-axis Superfluid Response and Quasiparticle Conductivity in Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} and Bi ₂ Sr ₂ CuO _{6+δ} . <i>Journal of Low Temperature Physics</i> , 1999, 117, 1229-1233.	1.4	0
50	Comment on "Has a Josephson-Plasma Mode Been Observed in Layered Superconductors?". <i>Physical Review Letters</i> , 1998, 81, 3551-3551.	7.8	30
51	Excitation of Josephson plasma and vortex oscillation modes in Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} in parallel magnetic fields. <i>Physical Review B</i> , 1997, 55, R8685-R8688.	3.2	50
52	Longitudinal Josephson-plasma excitation in Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} : Direct observation of the Nambu-Goldstone mode in a superconductor. <i>Physical Review B</i> , 1997, 56, 5617-5621.	3.2	53
53	Interlayer Phase Coherence in the Vortex State of Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} Probed by Josephson Plasma Resonance. <i>Physical Review Letters</i> , 1997, 78, 1972-1975.	7.8	121
54	Coupling Transition of the Vortex Liquid in Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} with Columnar Defects. <i>Physical Review Letters</i> , 1997, 79, 3763-3766.	7.8	59

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55	Influence of columnar defects on interlayer coherence in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ from Josephson plasma resonance. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 2073-2074.	1.2	0
56	Collective electromagnetic wave excitation in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ in magnetic field nearly parallel to the CuO_2 -planes. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 2429-2430.	1.2	1
57	Interlayer phase coherence in the vortex state of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ proved by Josephson plasma resonance. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 391-394.	1.2	0
58	Interlayer Josephson coupling in the vortex solid state of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ from Josephson plasma resonance. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 2221-2222.	1.2	0
59	Excitation of Josephson plasmon in the vortex state of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 293, 8-13.	1.2	7
60	Interlayer Josephson coupling of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ with columnar defects proved by plasma resonance. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 293, 208-211.	1.2	3
61	Josephson plasma resonance in the vortex state of high temperature superconductors. <i>European Physical Journal D</i> , 1996, 46, 3203-3210.	0.4	4
62	Longitudinal Josephson plasma excitation in vortex state of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>European Physical Journal D</i> , 1996, 46, 1625-1626.	0.4	4
63	Josephson plasma resonance in the vortex state of high temperature superconductors. <i>European Physical Journal D</i> , 1996, 46, 1637-1638.	0.4	2
64	Microwave response in the vortex state of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physica C: Superconductivity and Its Applications</i> , 1996, 263, 457-460.	1.2	0
65	Collective Josephson Plasma Resonance in the Vortex State of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physical Review Letters</i> , 1995, 75, 4512-4515.	7.8	361
66	Acoustic fields in the ocean bottom. , 0, , .		0