Marat B Gaifullin

List of Publications by Year
in descending order

66	1,397	471509 17	330143 37
papers	citations	h-index	g-index

66	66	66	640
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Collective Josephson Plasma Resonance in the Vortex State ofBi2Sr2CaCu2O8+Î´. Physical Review Letters, 1995, 75, 4512-4515.	7.8	361
2	Abrupt Change of Josephson Plasma Frequency at the Phase Boundary of the Bragg Glass inBi2Sr2CaCu2O8+Î´. Physical Review Letters, 2000, 84, 2945-2948.	7.8	131
3	Interlayer Phase Coherence in the Vortex State ofBi2Sr2CaCu2O8+Î´Probed by Josephson Plasma Resonance. Physical Review Letters, 1997, 78, 1972-1975.	7.8	121
4	c-Axis Superfluid Response and Quasiparticle Damping of Underdoped Bi:2212 and Bi:2201. Physical Review Letters, 1999, 83, 3928-3931.	7.8	79
5	Nonlinear Nanodevices Using Magnetic Flux Quanta. Physical Review Letters, 2007, 99, 207003.	7.8	75
6	Coupling Transition of the Vortex Liquid inBi2Sr2CaCu2O8+Î´with Columnar Defects. Physical Review Letters, 1997, 79, 3763-3766.	7.8	59
7	Shapiro Step Response in the Coherent Josephson Flux Flow State ofBi2Sr2CaCu2O8+Î´. Physical Review Letters, 2001, 87, 247007.	7.8	55
8	Longitudinal Josephson-plasma excitation inBi2Sr2CaCu2O8+Î´:Direct observation of the Nambu-Goldstone mode in a superconductor. Physical Review B, 1997, 56, 5617-5621.	3.2	53
9	Excitation of Josephson plasma and vortex oscillation modes inBi2Sr2CaCu2O8+Îîn parallel magnetic fields. Physical Review B, 1997, 55, R8685-R8688.	3.2	50
10	Subterahertz Chaos Generation by Coupling a Superlattice to a Linear Resonator. Physical Review Letters, 2014, 112, 116603.	7.8	48
11	Comment on â€œHas a Josephson-Plasma Mode Been Observed in Layered Superconductors?â€• Physical Review Letters, 1998, 81, 3551-3551.	7.8	30
12	Controlling High-Frequency Collective Electron Dynamics via Single-Particle Complexity. Physical Review Letters, 2012, 109, 024102.	7.8	29
13	Vortex Fluctuations in UnderdopedBi2Sr2CaCu2O8+Î´Crystals. Physical Review Letters, 2003, 90, 137002.	7.8	28
14	Charged nano-domes and bubbles in epitaxial graphene. Nanotechnology, 2014, 25, 165704.	2.6	23
15	Anisotropy of the Superconducting Order Parameter inÎºâ^'(BEDTâ^'TTF)2Cu(NCS)2. Physical Review Letters, 2001, 86, 3451-3451.	7.8	22
16	Josephson coupling in the vortex-liquid state ofBi2Sr2CaCu2O8+Î´with columnar defects. Physical Review B, 1999, 59, 8970-8977.	3.2	21
17	Comment on â€œMillimeter-Wave Magneto-Optical Determination of the Anisotropy of the Superconducting Order Parameter in the Molecular SuperconductorÎºâ^'(BEDTâ^'TTF)2Cu(NCS)2â€• Physical Review Letters, 2001, 86, 3452-3452.	7.8	17
18	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

#	Article	IF	Citations
19	Controlled dynamics of sine-Gordon breather in long Josephson junctions. European Physical Journal B, 2012, 85, 1.	1.5	14
20	The emergence of quantum capacitance in epitaxial graphene. Journal of Materials Chemistry C, 2016, 4, 5829-5838.	5.5	13
21	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
22	Microwave Generation in Synchronized Semiconductor Superlattices. Physical Review Applied, 2017, 7, .	3.8	12
23	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
24	Magnetic field tunable vortex diode made of YBa2Cu3O7â˜Î´ Josephson junction asymmetrical arrays. Applied Physics Letters, 2017, 111, .	3.3	10
25	Vortex solid-liquid transition inBi2Sr2CaCu2O8+Î´with a high density of strong pins. Physical Review B, 2004, 69, .	3.2	9
26	Excitation of Josephson plasmon in the vortex state of Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 1997, 293, 8-13.	1.2	7
27	c-Electron transport in Bi2Sr2CaCu2O8+Î´ and Bi2Sr2CuO6+Î´ probed by Josephson plasma resonance. Physica C: Superconductivity and Its Applications, 2001, 362, 228-233.	1.2	6
28	Shapiro step response in Bi2Sr2CaCu2O8+Î´ in parallel and tilted magnetic field. Physica C: Superconductivity and Its Applications, 2003, 392-396, 319-322.	1.2	6
29	Synchronization in stacked array of the Josephson junctions in Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2008, 468, 1896-1898.	1.2	6
30	Local Measurement of Microwave Response with Local Tunneling Spectra Using Near Field Microwave Microscopy. Applied Physics Express, 2009, 2, 025006.	2.4	6
31	Vortex state of high-Tc superconductors studied by Josephson plasma resonance. Physica C: Superconductivity and Its Applications, 2001, 362, 64-70.	1.2	5
32	Critical current and Josephson plasma resonance in the vortex glass phase ofBi2Sr2CaCu2O8+Î´. Physical Review B, 2001, 63, .	3.2	5
33	Josephson plasma resonance in underdoped Bi2Sr2CaCu2O8+Î´ crystals. Physica C: Superconductivity and Its Applications, 2002, 369, 236-239.	1.2	5
34	Molecular implantation using a laser-induced molecular micro-jet. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 193, 42-49.	3.9	5
35	Development of Near-Field Microwave Microscope with the Functionality of Scanning Tunneling Spectroscopy. Japanese Journal of Applied Physics, 2010, 49, 116701.	1.5	5
36	Josephson plasma resonance in the vortex state of high temperature superconductors. European Physical Journal D, 1996, 46, 3203-3210.	0.4	4

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37	Longitudinal Josephson plasma excitation in vortex state of Bi2Sr2CaCu2O8+Î´. European Physical Journal D, 1996, 46, 1625-1626.	0.4	4
38	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
39	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
40	Interlayer Josephson coupling of Bi2Sr2CaCu2O8+Î´ with columnar defects proved by plasma resonance. Physica C: Superconductivity and Its Applications, 1997, 293, 208-211.	1.2	3
41	Thec-axis coherent response of Bi-2212 Josephson flux-flow junction to mm-wave radiation. Superconductor Science and Technology, 2001, 14, 1018-1021.	3.5	3
42	c-axis coupling in underdopedBi2Sr2CaCu2O8+Î´with varying degrees of disorder. Physical Review B, 2008, 77, .	3.2	3
43	Spatial correlation between impurity states and energy gap distribution in Bi₂Sr₂Ca(Cu_{1-x}Zn_x)₂O_{8+Î´}(x =) Tj ET Q q 1 1 0.784314 gf	3.7	
44	Josephson plasma resonance in the vortex state of high temperature superconductors. European Physical Journal D, 1996, 46, 1637-1638.	0.4	2
45	Josephson plasma resonance in Nd1.85Ce0.15CuO4â^Î´ single crystals. Physica C: Superconductivity and Its Applications, 2001, 357-360, 520-522.	1.2	2
46	Vortex flow in micro-fabricated Bi2Sr2CaCu2O8+y single-crystal thin films. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1220-1221.	1.2	2
47	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
48	Collective electromagnetic wave excitation in Bi2Sr2CaCu2O8+Î´ in magnetic field nearly parallel to the CuO2-planes. Physica C: Superconductivity and Its Applications, 1997, 282-287, 2429-2430.	1.2	1
49	Josephson plasma resonance spectroscopy in Bi-based cuprates. Physica B: Condensed Matter, 2000, 284-288, 933-934.	2.7	1
50	Shapiro step response in the vortex state of Bi2Sr2CaCu2O8+$delta;. Physica B: Condensed Matter, 2003, 329-333, 1330-1331.	2.7	1
51	Josephson-vortex flow in Bi2Sr2CaCu2O8+y. Superconductor Science and Technology, 2007, 20, S43-S47.	3.5	1
52	Josephson vortices in annular-type intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2007, 463-465, 276-280.	1.2	1
53	Microwave response in the vortex state of Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 1996, 263, 457-460.	1.2	0
54	Influence of columnar defects on interlayer coherence in Bi2Sr2CaCu2O8+Î´ from Josephson plasma resonance. Physica C: Superconductivity and Its Applications, 1997, 282-287, 2073-2074.	1.2	0

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55	Interlayer phase coherence in the vortex state of Bi2Sr2CaCu2O8+Î´ proved by Josephson plasma resonance. Physica C: Superconductivity and Its Applications, 1997, 282-287, 391-394.	1.2	0
56	Interlayer Josephson coupling in the vortex solid state of Bi2Sr2CaCu2O8+Î´ from Josephson plasma resonance. Physica C: Superconductivity and Its Applications, 1997, 282-287, 2221-2222.	1.2	0
57	Acoustic fields in the ocean bottom. , 0, , .		0
58	c-axis Superfluid Response and Quasiparticle Conductivity in Bi2Sr2CaCu2O8+Î´ and Bi2Sr2CuO6+Î´. Journal of Low Temperature Physics, 1999, 117, 1229-1233.	1.4	0
59	c-Axis superfluid response and quasiparticle conductivities in Bi:2212 and Bi:2201 probed by Josephson plasma resonance. Physica B: Condensed Matter, 2000, 284-288, 620-621.	2.7	0
60	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
61	Josephson-vortex dynamics in intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2007, 460-462, 764-765.	1.2	0
62	Role of pair-breaking and phase fluctuations in c-axis tunneling in underdoped Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2007, 460-462, 876-877.	1.2	0
63	Controlling the dynamical behaviors of Josephson vortices. Journal of Physics: Conference Series, 2008, 129, 012031.	0.4	0
64	Dynamical behavior of Josephson vortices mediated with pancake vortices in Bi-2212. Journal of Physics: Conference Series, 2009, 150, 052070.	0.4	0
65	Disorder and c-axis quasiparticle dynamics in underdoped Bi₂Sr₂CaCu₂O₈. Journal of Physics: Conference Series, 2009, 150, 052277.	0.4	0
66	JOSEPHSON PLASMA RESONANCE SPECTROSCOPY OF THE LAYERED SUPERCONDUCTORS WITH INTRINSIC JOSEPHSON EFFECT. , 2009, , .		0