

August Yurgens

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94
papers

2,543
citations

28
h-index

49
g-index

102
ext. papers

2,714
ext. citations

3.2
avg. IF

4.83
L-index

#	Paper	IF	Citations
94	Evidence for coexistence of the superconducting gap and the pseudogap in Bi-2212 from intrinsic tunneling spectroscopy. <i>Physical Review Letters</i> , 2000 , 84, 5860-3	7.4	289
93	Intrinsic Josephson junctions: recent developments. <i>Superconductor Science and Technology</i> , 2000 , 13, R85-R100	3.1	142
92	Strong temperature dependence of the c-axis gap parameter of Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} intrinsic Josephson junctions. <i>Physical Review B</i> , 1996 , 53, R8887-R8890	3.3	130
91	Magnetic field dependence of the superconducting gap and the pseudogap in Bi ₂ 212 and HgBr ₂ -Bi ₂ 212, studied by intrinsic tunneling spectroscopy. <i>Physical Review Letters</i> , 2001 , 86, 2657-60	7.4	126
90	Graphene conductance uniformity mapping. <i>Nano Letters</i> , 2012 , 12, 5074-81	11.5	112
89	Frame assisted H ₂ O electrolysis induced H ₂ bubbling transfer of large area graphene grown by chemical vapor deposition on Cu. <i>Applied Physics Letters</i> , 2013 , 102, 022101	3.4	91
88	Fiske steps in intrinsic Bi ₂ Sr ₂ CaCu ₂ O _{8+x} stacked Josephson junctions. <i>Physical Review B</i> , 1999 , 59, 8463-8466	3.4	79
87	Transport coefficients and flux motion in Bi ₂ Sr ₂ CaCu ₂ O _x single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 180, 417-425	1.3	76
86	Temperature distribution in a large Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} mesa. <i>Physical Review B</i> , 2011 , 83,	3.3	75
85	Large-area uniform graphene-like thin films grown by chemical vapor deposition directly on silicon nitride. <i>Applied Physics Letters</i> , 2011 , 98, 252107	3.4	72
84	Noncatalytic chemical vapor deposition of graphene on high-temperature substrates for transparent electrodes. <i>Applied Physics Letters</i> , 2012 , 100, 022102	3.4	61
83	Intrinsic tunneling spectra of Bi ₂ (Sr _{2-x} La _x)CuO _{6+δ} . <i>Physical Review Letters</i> , 2003 , 90, 147005	7.4	58
82	In situ controlled fabrication of stacks of high-T _c intrinsic Josephson junctions. <i>Applied Physics Letters</i> , 1997 , 70, 1760-1762	3.4	55
81	Self-heating in small mesa structures. <i>Journal of Applied Physics</i> , 2001 , 89, 5578-5580	2.5	55
80	PSEUDO-GAP FEATURES OF INTRINSIC TUNNELING IN (HgBr ₂)-Bi ₂ 212 SINGLE CRYSTALS. <i>International Journal of Modern Physics B</i> , 1999 , 13, 3758-3763	1.1	55
79	Cleaning graphene using atomic force microscope. <i>Journal of Applied Physics</i> , 2012 , 111, 064904	2.5	51
78	Relationship between the Out-Of-Plane Resistance and the Subgap Resistance of Intrinsic Josephson Junctions in Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . <i>Physical Review Letters</i> , 1997 , 79, 5122-5125	7.4	50

77	Low Partial Pressure Chemical Vapor Deposition of Graphene on Copper. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 255-260	2.6	49
76	Vertically Aligned Graphene Coating is Bactericidal and Prevents the Formation of Bacterial Biofilms. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701331	4.6	47
75	Controllable chemical vapor deposition of large area uniform nanocrystalline graphene directly on silicon dioxide. <i>Journal of Applied Physics</i> , 2012 , 111, 044103	2.5	46
74	Multiple-valued c-axis critical current and phase locking in Bi ₂ Sr ₂ CaCu ₂ O _{8+x} single crystals. <i>Physical Review B</i> , 1998 , 57, R8135-R8138	3.3	44
73	Growth mechanism of graphene on platinum: Surface catalysis and carbon segregation. <i>Applied Physics Letters</i> , 2014 , 104, 152107	3.4	43
72	Bi ₂ Sr ₂ CaCu ₂ O _{8+x} intrinsic Josephson junctions in a magnetic field. <i>Physical Review B</i> , 1999 , 59, 7196-7204	3.3	42
71	Influence of graphene synthesizing techniques on the photocatalytic performance of graphene-TiO ₂ nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15528-37	3.6	37
70	Intrinsic Josephson tunnel junctions fabricated on the surfaces of Bi ₂ 212 single crystals by photolithography. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 3269-3270	1.3	34
69	Ultrahigh Surface-Enhanced Raman Scattering of Graphene from Au/Graphene/Au Sandwiched Structures with Subnanometer Gap. <i>Advanced Optical Materials</i> , 2016 , 4, 2021-2027	8.1	32
68	Yurgens et al. Reply.. <i>Physical Review Letters</i> , 2004 , 92,	7.4	31
67	Pore-free bubbling delamination of chemical vapor deposited graphene from copper foils. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8634-8641	7.1	28
66	A Mechanism for Highly Efficient Electrochemical Bubbling Delamination of CVD-Grown Graphene from Metal Substrates. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500492	4.6	28
65	Vortex motion under the influence of a temperature gradient. <i>Physical Review B</i> , 1992 , 46, 6643-6646	3.3	27
64	Comparison of Josephson fluxon modes in high- and low-temperature superconducting stacked Josephson junctions. <i>Physical Review B</i> , 2000 , 61, 766-777	3.3	26
63	Quantum Hall effect in graphene decorated with disordered multilayer patches. <i>Applied Physics Letters</i> , 2013 , 103, 233110	3.4	24
62	Transport properties of Bi ₂ Sr ₂ CaCu ₂ O _x single crystals with T _c =95 K. <i>Physica C: Superconductivity and Its Applications</i> , 1990 , 169, 174-178	1.3	23
61	Superconducting critical current of a single Cu ₂ O ₄ plane in a Bi ₂ Sr ₂ CaCu ₂ O _{8+x} single crystal. <i>Physical Review B</i> , 2005 , 71,	3.3	22
60	Gap and sub-gap structures of intrinsic Josephson tunnel junctions in Bi ₂ Sr ₂ CaCu ₂ O _{8+x} single crystals 1996 ,		21

59	Direct Chemical Vapor Deposition of Large-Area Carbon Thin Films on Gallium Nitride for Transparent Electrodes: A First Attempt. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2012 , 25, 494-501	2.6	20
58	Chiral charge pumping in graphene deposited on a magnetic insulator. <i>Physical Review B</i> , 2017 , 95,	3.3	19
57	Graphene bolometer with thermoelectric readout and capacitive coupling to an antenna. <i>Applied Physics Letters</i> , 2018 , 112, 063501	3.4	18
56	Single intrinsic Josephson junction with double-sided fabrication technique. <i>Applied Physics Letters</i> , 2006 , 88, 222501	3.4	18
55	Interlayer Coupling and Superconducting Critical Temperature of Bi ₂ Sr _{1.5} La _{0.5} CuO ₆ + δ and Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ Incommensurate Effects of Pressure. <i>Physical Review Letters</i> , 1999 , 82, 3148-3151	7.4	17
54	Graphene p-n junctions controlled by local gates made of naturally oxidized thin aluminium films. <i>Carbon</i> , 2012 , 50, 1987-1992	10.4	15
53	Encapsulation of graphene in Parylene. <i>Applied Physics Letters</i> , 2017 , 110, 053504	3.4	14
52	Temperature distribution in a stack of intrinsic Josephson junctions with their CuO-plane electrodes oriented perpendicular to supporting substrate. <i>Superconductor Science and Technology</i> , 2011 , 24, 015003	3.1	14
51	Rapid chemical vapor deposition of graphene on liquid copper. <i>Synthetic Metals</i> , 2016 , 216, 93-97	3.6	13
50	Magnetic field dependence of the critical current in stacked Josephson junctions. Evidence for fluxon modes in Bi ₂ Sr ₂ CaCu ₂ O ₈ + x mesas. <i>Physica C: Superconductivity and Its Applications</i> , 1998 , 304, 172-178	1.3	13
49	Superconducting properties of ultrathin Bi ₂ Sr ₂ CaCu ₂ O ₈ + x single crystals. <i>Journal of Applied Physics</i> , 2005 , 98, 033913	2.5	13
48	Unusual thermopower of inhomogeneous graphene grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 2014 , 104, 021902	3.4	12
47	Partial filling of columnar defects by vortices as seen in measurements of the c-axis critical current of Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ <i>Physical Review B</i> , 1999 , 60, 12480-12484	3.3	11
46	The Aharonov-Bohm effect in graphene rings with metal mirrors. <i>Carbon</i> , 2012 , 50, 5562-5568	10.4	9
45	Pseudogap features of intrinsic tunneling in Bi ₂₂₁₂ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 362, 286-289	1.3	9
44	Optically induced magnetic relaxation in Bi-2212 single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1992 , 203, 277-283	1.3	9
43	Electrical and optical properties of a bolometer with a suspended absorber and tunneling-current thermometers. <i>Applied Physics Letters</i> , 2017 , 110, 242601	3.4	7
42	Small-number arrays of intrinsic Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 674-678	1.3	7

41	Intrinsic tunneling in high-Tc Bi2212 crystals supports a coexistence of superconducting and pseudo-gaps. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 352, 89-94	1.3	7
40	Control of the Dirac point in graphene by UV light. <i>JETP Letters</i> , 2014 , 98, 704-708	1.2	6
39	Towards transfer-free fabrication of graphene NEMS grown by chemical vapour deposition. <i>Micro and Nano Letters</i> , 2012 , 7, 749	0.9	6
38	Family of graphene-based superconducting devices. <i>JETP Letters</i> , 2011 , 94, 329-332	1.2	6
37	Thickness dependence of the superconducting properties of ultra-thin Bi2Sr2CaCu2O8+x single crystals. <i>Superconductor Science and Technology</i> , 2006 , 19, S205-S208	3.1	6
36	Self-consistent estimations of heating in stacks of intrinsic Josephson junctions. <i>Superconductor Science and Technology</i> , 2007 , 20, S48-S53	3.1	6
35	Intrinsic Josephson effects in submicrometre Bi2212 mesas fabricated by using focused ion beam etching. <i>Superconductor Science and Technology</i> , 1999 , 12, 1013-1015	3.1	6
34	Measurements of weak localization of graphene in inhomogeneous magnetic fields. <i>JETP Letters</i> , 2015 , 102, 367-371	1.2	5
33	Flux-flow branches and Fiske steps in Bi-2212 mesas. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1856-1857	1.2	4
32	Mixed state properties of Bi2Sr2CaCu2Ox single crystals with Tc95 K. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 1817-1818	1.3	4
31	A graphene-based neutral particle detector. <i>Applied Physics Letters</i> , 2019 , 114, 061902	3.4	4
30	Single-crystalline Bi2Sr2CaCu2O8+x detectors for direct detection of microwave radiation. <i>Applied Physics Letters</i> , 2015 , 106, 152601	3.4	3
29	Thermoelectric effects in graphene at high bias current and under microwave irradiation. <i>Scientific Reports</i> , 2017 , 7, 15542	4.9	3
28	Transfer-free fabrication of suspended graphene grown by chemical vapor deposition 2012 ,		3
27	Microwave characterization of Ti/Au-graphene contacts. <i>Applied Physics Letters</i> , 2013 , 103, 173111	3.4	3
26	In situ detection of radiation and heat balance in large Bi2212 mesas. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, 818-821	1.3	3
25	Current-induced in-plane superconducting transition in intrinsic Josephson junctions. <i>Superconductor Science and Technology</i> , 2006 , 19, S209-S212	3.1	3
24	Intrinsic Josephson junctions for studies of high-Tc superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 341-348, 2277-2280	1.3	3

23	Observation of normal and superconducting state energy gap features from intrinsic c-axis interlayer tunneling in Bi ₂ Sr ₂ CaCu ₂ O ₈ crystals 1998 , 3480, 11		3
22	Peak in the temperature dependence of the c-axis Josephson current in Bi ₂ Sr ₂ CaCu ₂ O _{8+x} intrinsic Josephson junctions. <i>European Physical Journal D</i> , 1996 , 46, 1273-1274		3
21	Phonon transport phenomena in high-T _c superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 562-563	1.3	3
20	Large Responsivity of Graphene Radiation Detectors With Thermoelectric Readout: Results of Simulations. <i>Sensors</i> , 2020 , 20,	3.8	2
19	Metal-Free Graphene as Transparent Electrode for GaN-Based Light-Emitters. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JG05	1.4	2
18	Intrinsic Josephson junctions formed inside ultra-thin BSCCO single crystals. <i>Superconductor Science and Technology</i> , 2007 , 20, S28-S33	3.1	2
17	Multiple flux-flow branches and phase transition of Josephson fluxon lattice in intrinsic Bi/sub 2/Sr/sub 2/CaCu/sub 2/O/sub 8+x/ stacked Josephson junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 4499-4502	1.8	2
16	Fluxon modes in stacked HTSC intrinsic Josephson junctions. <i>Applied Superconductivity</i> , 1999 , 6, 777-782		2
15	Making thick photoresist SU-8 flat on small substrates. <i>Journal of Micromechanics and Microengineering</i> , 2019 , 29, 017001	2	2
14	A Hybrid-Type CVD System for Graphene Growth. <i>Chemical Vapor Deposition</i> , 2015 , 21, 176-180		1
13	Chemical vapor deposition of nanocrystalline graphene directly on arbitrary high-temperature insulating substrates 2012 ,		1
12	C-axis magnetoresistance of a few atomic surface layers of the Bi:2212 single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1997 , 282-287, 2293-2294	1.3	1
11	The c-axis gap parameter and resistivity of an individual intrinsic tunnel junction in Bi-2212 single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1997 , 293, 181-185	1.3	1
10	Intrinsic Josephson tunneling for basic studies of high-temperature superconductors. <i>Current Applied Physics</i> , 2001 , 1, 413-417	2.6	1
9	Fabrication of Bi/sub 2/Sr/sub 2/CaCu/sub 2/O/sub 8+/spl delta// films and intrinsic Josephson junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 2703-2706	1.8	1
8	EFFECT OF PRESSURE ON INTERLAYER COUPLING AND SUPERCONDUCTING TRANSITION TEMPERATURE OF Bi-2201 AND Bi-2212. <i>International Journal of Modern Physics B</i> , 1999 , 13, 3744-3746	1.1	1
7	Effect of Pressure on the Out-of-Plane Critical Current and T _c of Bi-2201 and Bi-2212 Single Crystals. <i>Journal of Low Temperature Physics</i> , 1999 , 117, 1211-1215	1.3	1
6	Intrinsic Josephson junctions in Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} single crystals. <i>European Physical Journal D</i> , 1996 , 46, 1293-1294		1

- 5 SINIS bolometer with a suspended absorber. *Journal of Physics: Conference Series*, **2018**, 969, 012088 0.3 1
- 4 Detection of graphene microelectromechanical system resonance. *Journal of Applied Physics*, **2014**, 116, 224510 2.5
- 3 Intrinsic Josephson junctions in mesas and ultrathin BSCCO single crystals: Ultimate control of shape and dimensions. *Physica C: Superconductivity and Its Applications*, **2007**, 460-462, 316-319 1.3
- 2 Intrinsic Josephson junctions in a magnetic field. *Physica C: Superconductivity and Its Applications*, **2004**, 404, 431-439 1.3
- 1 Intrinsic Josephson Tunneling in High-Temperature Superconductors. *Nanoscience and Technology*, **2010**, 137-161 0.6