

Gianni Blatter

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7430495/gianni-blatter-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

229 papers	13,152 citations	45 h-index	112 g-index
241 ext. papers	14,164 ext. citations	5.2 avg, IF	6.13 L-index

#	Paper	IF	Citations
229	Vortices in high-temperature superconductors. <i>Reviews of Modern Physics</i> , 1994 , 66, 1125-1388	40.5	5015
228	From isotropic to anisotropic superconductors: A scaling approach. <i>Physical Review Letters</i> , 1992 , 68, 875-878	7.4	555
227	Electrical properties of grain boundaries in polycrystalline compound semiconductors. <i>Semiconductor Science and Technology</i> , 1990 , 5, 111-137	1.8	389
226	Environmentally decoupled sds -wave Josephson junctions for quantum computing. <i>Nature</i> , 1999 , 398, 679-681	50.4	369
225	Carrier transport through grain boundaries in semiconductors. <i>Physical Review B</i> , 1986 , 33, 3952-3966	3.3	295
224	Electronic entanglement in the vicinity of a superconductor. <i>European Physical Journal B</i> , 2001 , 24, 287-290		259
223	New critical-state model for critical currents in ceramic high-Tc superconductors. <i>Physical Review B</i> , 1988 , 38, 11391-11404	3.3	239
222	Scaling of the Hall resistivity in high-Tc superconductors. <i>Physical Review Letters</i> , 1993 , 71, 1242-1245	7.4	195
221	Bell inequalities and entanglement in solid-state devices. <i>Physical Review B</i> , 2002 , 66,	3.3	185
220	Quantum collective creep. <i>Physical Review Letters</i> , 1991 , 66, 3297-3300	7.4	169
219	Topologically protected quantum bits using Josephson junction arrays. <i>Nature</i> , 2002 , 415, 503-6	50.4	163
218	Exact solution of the t-J model in one dimension at $2t=+/-J$: Ground state and excitation spectrum. <i>Physical Review B</i> , 1991 , 44, 130-154	3.3	162
217	Bose-glass melting in YBaCuO crystals with correlated disorder. <i>Physical Review Letters</i> , 1994 , 72, 1914-1917	7.4	155
216	Supersolid versus phase separation in atomic bose-fermi mixtures. <i>Physical Review Letters</i> , 2003 , 91, 130404	7.4	149
215	Design aspects of superconducting-phase quantum bits. <i>Physical Review B</i> , 2001 , 63,	3.3	147
214	Low-field phase diagram of layered superconductors: The role of electromagnetic coupling. <i>Physical Review B</i> , 1996 , 54, 72-75	3.3	133
213	Electrical breakdown at semiconductor grain boundaries. <i>Physical Review B</i> , 1986 , 34, 8555-8572	3.3	131

212	Vortex dynamics and the Hall anomaly: A microscopic analysis. <i>Physical Review Letters</i> , 1995 , 75, 3736-3739	7.4	124
211	Dynamical properties of ultracold bosons in an optical lattice. <i>Physical Review B</i> , 2007 , 75, 030403	3.3	119
210	Quantum melting of the vortex lattice in high-Tc superconductors. <i>Physical Review Letters</i> , 1993 , 70, 2621-2624	7.4	114
209	Commensurate-incommensurate transition of cold atoms in an optical lattice. <i>Physical Review Letters</i> , 2003 , 90, 130401	7.4	102
208	Nonequilibrium dynamics of coupled qubit-cavity arrays. <i>Physical Review Letters</i> , 2012 , 108, 233603	7.4	98
207	Weak to strong pinning crossover. <i>Physical Review Letters</i> , 2004 , 92, 067009	7.4	97
206	Strong coupling theory for the Jaynes-Cummings-Hubbard model. <i>Physical Review Letters</i> , 2009 , 103, 086403	7.4	94
205	Vortex pinning by twin boundaries in copper oxide superconductors. <i>Physical Review B</i> , 1991 , 43, 7826-7830	7.4	93
204	Superfast Vortex Creep in YBa ₂ Cu ₃ O _{7-x} Crystals with Columnar Defects: Evidence for Variable-Range Vortex Hopping. <i>Physical Review Letters</i> , 1997 , 78, 3181-3184	7.4	88
203	Quantum collective creep: Effects of anisotropy, layering, and finite temperature. <i>Physical Review B</i> , 1993 , 47, 2725-2741	3.3	86
202	Nonequilibrium delocalization-localization transition of photons in circuit quantum electrodynamics. <i>Physical Review B</i> , 2010 , 82, 040504	3.3	83
201	Electrostatics of Vortices in Type-II Superconductors. <i>Physical Review Letters</i> , 1996 , 77, 566-569	7.4	77
200	Pinning phenomena and critical currents in disordered long Josephson junctions. <i>Physical Review B</i> , 1992 , 45, 5450-5467	3.3	77
199	Kosterlitz-Thouless transition in the smectic vortex state of a layered superconductor. <i>Physical Review Letters</i> , 1991 , 66, 2392-2395	7.4	71
198	Vortex motion in charged and neutral superfluids: A hydrodynamic approach. <i>Physical Review B</i> , 1998 , 57, 575-581	3.3	70
197	Vortices and 2D Bosons: A Path-Integral Monte Carlo Study. <i>Physical Review Letters</i> , 1997 , 79, 1925-1928	7.4	68
196	Low-field vortex dynamics over seven time decades in a Bi ₂ Sr ₂ CaCu ₂ O _{8+delta} single crystal for temperatures 13 . <i>Physical Review B</i> , 1996 , 53, 9286-9295	3.3	68
195	Decay of metastable states: Sharp transition from quantum to classical behavior. <i>Physical Review B</i> , 1997 , 56, 3130-3139	3.3	65

- 194 Zener tunneling and localization in small conducting rings. *Physical Review B*, **1988**, 37, 3856-3880 3.3 65
- 193 Quantum statistical mechanics of vortices in high-temperature superconductors. *Physical Review B*, **1994**, 50, 10272-10286 3.3 61
- 192 Wave-packet formalism of full counting statistics. *Physical Review B*, **2008**, 78, 3.3 58
- 191 Quantum fluctuations in thin superconducting wires of finite length. *Physical Review Letters*, **2004**, 92, 067007 7.4 57
- 190 Characteristics of First-Order Vortex Lattice Melting: Jumps in Entropy and Magnetization. *Physical Review Letters*, **1998**, 80, 837-840 7.4 57
- 189 Limiting-path model of the critical current in a textured YBa₂Cu₃O_{7- δ} film. *Physical Review B*, **1989**, 40, 829-832 3.3 57
- 188 Amplitude mode in the quantum phase model. *Physical Review Letters*, **2008**, 100, 050404 7.4 53
- 187 Lower Critical Field H_{c1} and Barriers for Vortex Entry in Bi₂Sr₂CaCu₂O₈+ δ Crystals. *Physical Review Letters*, **1998**, 81, 3231-3234 7.4 50
- 186 Correlation of flux lines in single-crystal Bi₂Sr₂CaCu₂O₈ with columnar defects. *Physical Review B*, **1995**, 52, 6913-6919 3.3 50
- 185 Quantum liquid of vortices in superconductors at $T=0$. *Physical Review B*, **1994**, 50, 13013-13016 3.3 50
- 184 Incompressible Polaritons in a Flat Band. *Physical Review Letters*, **2015**, 115, 143601 7.4 45
- 183 Paramagnetic Instability at Normal-Metal/Superconductor Interfaces. *Physical Review Letters*, **1999**, 82, 3336-3339 7.4 44
- 182 Electrically Tunable Flat Bands and Magnetism in Twisted Bilayer Graphene. *Physical Review Letters*, **2019**, 123, 096802 7.4 43
- 181 Excitations of strongly correlated lattice polaritons. *Physical Review Letters*, **2010**, 104, 216402 7.4 42
- 180 Phase separation of atomic Bose-Fermi mixtures in an optical lattice. *Physical Review A*, **2004**, 69, 2.6 42
- 179 Vortices in d-wave superconductors. *Physical Review B*, **1996**, 54, 9385-9398 3.3 41
- 178 Nonlinearity in normal-metal/Superconductor transport: Scattering-matrix approach. *Physical Review B*, **1997**, 55, 3146-3154 3.3 39
- 177 Entanglement in a noninteracting mesoscopic structure. *Physical Review B*, **2005**, 71, 3.3 39

176	Entanglement in mesoscopic structures: Role of projection. <i>Physical Review B</i> , 2004 , 69,	3.3	38
175	Dynamics and effective actions of BCS superconductors. <i>European Physical Journal B</i> , 1999 , 10, 131-143	1.2	37
174	Nonequilibrium gas-liquid transition in the driven-dissipative photonic lattice. <i>Physical Review A</i> , 2017 , 96,	2.6	36
173	Transition from slow Abrikosov to fast moving Josephson vortices in iron pnictide superconductors. <i>Nature Materials</i> , 2013 , 12, 134-8	27	36
172	Role of electromagnetic coupling in the low-field phase diagram of $\text{Bi}_{2.15}\text{Sr}_{1.85}\text{CaCu}_2\text{O}_{8+\delta}$ <i>Physical Review B</i> , 1997 , 55, 5666-5669	3.3	36
171	Unconventionally large quantum-dissipative gap regime in overdoped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$. <i>Physical Review B</i> , 2003 , 67,	3.3	36
170	Superfluidity versus Bloch oscillations in confined atomic gases. <i>Physical Review Letters</i> , 2001 , 87, 100403	7.4	36
169	Numerical study of vortex matter using the Bose model: First-order melting and entanglement. <i>Physical Review B</i> , 1998 , 58, 14556-14571	3.3	35
168	Dissociation of vortex stacks into fractional-flux vortices. <i>Physical Review Letters</i> , 2005 , 94, 097001	7.4	33
167	Van der Waals Attraction of Vortices in Anisotropic and Layered Superconductors. <i>Physical Review Letters</i> , 1996 , 77, 4958-4961	7.4	33
166	Evaporation of the pancake-vortex lattice in weakly coupled layered superconductors. <i>Physical Review Letters</i> , 2000 , 84, 2698-701	7.4	32
165	Decoherence in superconducting quantum bits by phonon radiation. <i>Physical Review Letters</i> , 2004 , 93, 057001	7.4	31
164	Anisotropic Rescaling of a Splayed Pinning Landscape in Hg Cuprates: Strong Vortex Pinning and Recovery of Variable Range Hopping. <i>Physical Review Letters</i> , 1998 , 81, 3948-3951	7.4	31
163	Statistics of radiation emitted from a quantum point contact. <i>Physical Review B</i> , 2010 , 81,	3.3	30
162	Magnetic breakdown in a normal-metal/superconductor proximity sandwich. <i>Physical Review B</i> , 1997 , 56, 14102-14107	3.3	30
161	Phase diagram of $\text{Bi}_{2.15}\text{Sr}_{1.85}\text{CaCu}_2\text{O}_{8+\delta}$ in the presence of columnar defects. <i>Physical Review B</i> , 1996 , 54, 6129-6132	3.3	30
160	Uncommonly high upper critical field of the pyrochlore superconductor KOs_2O_6 below the enhanced paramagnetic limit. <i>Physical Review B</i> , 2006 , 74,	3.3	29
159	Generating spin-entangled electron pairs in normal conductors using voltage pulses. <i>Physical Review B</i> , 2005 , 72,	3.3	28

- 158 Velocity-force characteristics of a driven interface in a disordered medium. *Physical Review B*, **2001**, 63, 3.3 28
- 157 Using qubits to measure fidelity in mesoscopic systems. *Physical Review Letters*, **2006**, 96, 106801 7.4 27
- 156 Quantum-enhanced magnetometry by phase estimation algorithms with a single artificial atom. *Npj Quantum Information*, **2018**, 4, 8.6 27
- 155 Nonlocality in mesoscopic Josephson junctions with strip geometry. *Physical Review B*, **1999**, 59, R9027-R9030 3.3 26
- 154 Vortex matter. *Physica C: Superconductivity and Its Applications*, **1997**, 282-287, 19-26 1.3 25
- 153 Vortex fluctuations in layered superconductors and thin films. *Physical Review B*, **1993**, 48, 10448-10456 3.3 25
- 152 Probing the pinning landscape in type-II superconductors via Campbell penetration depth. *Physical Review B*, **2016**, 93, 3.3 24
- 151 Density of states and critical behavior of the Coulomb glass. *Physical Review Letters*, **2009**, 102, 067205 7.4 24
- 150 Interaction of vortices in superconductors with κ close to 1/2. *Physical Review B*, **2002**, 65, 3.3 23
- 149 Strong Pinning and Plastic Deformations of the Vortex Lattice. *Physical Review Letters*, **1996**, 77, 4636-4639 7.4 23
- 148 Dynamical aspects of strong pinning of magnetic vortices in type-II superconductors. *Physical Review Letters*, **2012**, 108, 217001 7.4 21
- 147 Defect-Unbinding Transition in Layered Superconductors. *Physical Review Letters*, **1999**, 83, 5358-5361 7.4 21
- 146 High-field transport phenomenology: Hot-electron generation at semiconductor interfaces. *Physical Review B*, **1987**, 36, 6446-6464 3.3 21
- 145 Vortex collisions: crossing or recombination?. *Physical Review Letters*, **2001**, 86, 5132-5 7.4 20
- 144 Creep of vortices from columnar defects. *Physical Review B*, **1996**, 54, R784-R787 3.3 20
- 143 Transport Spectroscopy of a Spin-Coherent Dot-Cavity System. *Physical Review Letters*, **2015**, 115, 166603 7.4 19
- 142 Supercurrent quantization in narrow-channel superconductor-normal-metal-superconductor junctions. *Physical Review B*, **2000**, 62, 3559-3564 3.3 19
- 141 (4+N)-dimensional elastic manifolds in random media: A renormalization-group analysis. *Physical Review B*, **1998**, 57, 7642-7652 3.3 19

- 140 Quantum depinning of a pancake vortex from a columnar defect. *Physical Review B*, **1998**, 57, 3586-3592, 3.3 19
- 139 Interference effects in isolated Josephson junction arrays with geometric symmetries. *Physical Review B*, **2001**, 65, 3.3 18
- 138 Schrodinger's cat is now fat. *Nature*, **2000**, 406, 25-6 50.4 18
- 137 Finite-voltage shot noise in normal-metal-superconductor junctions. *Physical Review B*, **1998**, 58, 11177-11180, 3.3 18
- 136 Vortex entanglement and broken symmetry. *Physical Review Letters*, **1995**, 75, 1380-1383 7.4 18
- 135 Monoenergetic and Directed Electron Emission from a Large-Bandgap Organic Insulator with Negative Electron Affinity. *Europhysics Letters*, **1988**, 5, 375-380 1.6 18
- 134 Minigap in a long disordered SNS junction: Analytical results. *Physical Review B*, **2002**, 66, 3.3 17
- 133 Diffusion and creep of a particle in a random potential. *Physical Review B*, **1998**, 58, 213-217 3.3 17
- 132 Analysis of the low field critical state in ceramic high-Tc superconductors. *Physica C: Superconductivity and Its Applications*, **1991**, 181, 385-391 1.3 17
- 131 Quantum metrology with a transmon qutrit. *Physical Review A*, **2018**, 97, 2.6 16
- 130 Engineering exotic phases for topologically protected quantum computation by emulating quantum dimer models. *Physical Review B*, **2008**, 78, 3.3 16
- 129 Exact Free Energy Distribution Function of a Randomly Forced Directed Polymer. *Physical Review Letters*, **1999**, 82, 2705-2708 7.4 16
- 128 Scattering of atomic beams off stepped surfaces. *Physical Review B*, **1983**, 27, 7050-7072 3.3 16
- 127 Supercurrents through gated superconductor-normal-metal-superconductor contacts: The Josephson transistor. *Physical Review B*, **2001**, 63, 3.3 15
- 126 From microscopic theory to Boltzmann kinetic equation: Application to vortex dynamics. *Physical Review B*, **1999**, 59, 14663-14673 3.3 15
- 125 Rashba Cavity QED: A Route Towards the Superradiant Quantum Phase Transition. *Physical Review Letters*, **2019**, 123, 207402 7.4 15
- 124 Zeeman and orbital limiting fields: Separated spin and charge degrees of freedom in cuprate superconductors. *Physical Review B*, **2004**, 69, 3.3 14
- 123 Macroscopic quantum tunneling in a dc SQUID: Instanton splitting. *Physical Review B*, **1994**, 49, 4033-4043, 3.3 14

- 122 Campbell penetration in the critical state of type-II superconductors. *Physical Review B*, **2015**, 92, 3.3 13
- 121 Campbell Response in Type-II Superconductors under Strong Pinning Conditions. *Physical Review Letters*, **2015**, 115, 207001 7.4 13
- 120 Self-protected polariton states in photonic quantum metamaterials. *Physical Review A*, **2014**, 89, 2.6 13
- 119 N-particle scattering matrix for electrons interacting on a quantum dot. *Physical Review Letters*, **2008**, 100, 226805 7.4 13
- 118 Continuously tunable charge in Andreev quantum dots. *Physical Review B*, **2007**, 75, 3.3 13
- 117 Quantum collective creep: A quasiclassical Langevin equation approach. *Physical Review B*, **2002**, 66, 3.3 13
- 116 Metastability of (d+n)-dimensional elastic manifolds. *Physical Review B*, **1998**, 58, 5486-5492 3.3 13
- 115 Vortex dynamics in type-II superconductors under strong pinning conditions. *Physical Review B*, **2017**, 96, 3.3 12
- 114 Superconducting tetrahedral quantum bits. *Physical Review Letters*, **2004**, 92, 098301 7.4 12
- 113 Thermodynamics of the first-order vortex lattice melting transition in YBa₂Cu₃O₇ \square *Physical Review B*, **1998**, 57, 14498-14506 3.3 12
- 112 Sound attenuation by helicon modes in high-T_c superconductors. *Physical Review B*, **1995**, 52, 4588-4591 3.3 12
- 111 Elastic properties of the Abrikosov flux-line lattice in anisotropic superconductors. *Physical Review B*, **1993**, 48, 15914-15919 3.3 12
- 110 Spatial correlations in driven-dissipative photonic lattices. *New Journal of Physics*, **2017**, 19, 125016 2.9 11
- 109 From the Jaynes-Cummings-Hubbard to the Dicke model. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2013**, 46, 224020 1.3 11
- 108 Joint free-energy distribution in the random directed polymer problem. *Physical Review Letters*, **2008**, 100, 050601 7.4 11
- 107 Effects of exchange symmetry on full counting statistics. *Physical Review Letters*, **2007**, 99, 076804 7.4 11
- 106 Superconducting tetrahedral quantum bits: Emulation of a noise-resistant spin-12 system. *Physical Review B*, **2004**, 70, 3.3 11
- 105 Andreev Spectroscopy for Superconducting Phase Qubits. *Journal of Low Temperature Physics*, **2000**, 118, 805-816 1.3 11

104	Blatter, Geshkenbein, and Larkin reply. <i>Physical Review Letters</i> , 1993 , 71, 302	7.4	11
103	Trading coherence and entropy by a quantum Maxwell demon. <i>Physical Review A</i> , 2016 , 94,	2.6	11
102	Persistence of pinning and creep beyond critical drive within the strong pinning paradigm. <i>Physical Review B</i> , 2018 , 98,	3.3	11
101	Comment on Orbital Paramagnetism of Electrons in Proximity to a SuperconductorPhysical Review Letters, 1999 , 82, 1796-1796	7.4	10
100	Tunable, nonlinear Hong-Ou-Mandel interferometer. <i>Physical Review A</i> , 2015 , 91,	2.6	9
99	Suppression of geometric barrier in type-II superconducting strips. <i>Physical Review B</i> , 2014 , 89,	3.3	9
98	Two-particle entanglement in capacitively coupled Mach-Zehnder interferometers. <i>Physical Review B</i> , 2013 , 87,	3.3	9
97	Dynamical unbinding transition in a periodically driven Mott insulator. <i>Physical Review Letters</i> , 2010 , 104, 220402	7.4	9
96	Noise-induced spectral shift measured in a double quantum dot. <i>Physical Review B</i> , 2009 , 80,	3.3	9
95	Dynamical resurrection of the visibility in a Mach-Zehnder interferometer. <i>Physical Review Letters</i> , 2011 , 107, 076803	7.4	9
94	Marginal pinning of vortices at high temperature. <i>Physical Review B</i> , 2001 , 64,	3.3	9
93	Competing structures in two dimensions: Square-to-hexagonal transition. <i>Physical Review B</i> , 2016 , 94,	3.3	8
92	Free-energy distribution functions for the randomly forced directed polymer. <i>Physical Review B</i> , 2010 , 82,	3.3	8
91	Quantum counting algorithm and its application in mesoscopic physics. <i>Physical Review A</i> , 2010 , 82,	2.6	8
90	Magnetic flux detection with an Andreev quantum dot. <i>JETP Letters</i> , 2007 , 86, 210-215	1.2	8
89	Peak effect at the weak to strong pinning crossover. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 404, 209-214	1.3	8
88	Publisher's Note: Dissociation of Vortex Stacks into Fractional-Flux Vortices [Phys. Rev. Lett. 94, 097001 (2005)]. <i>Physical Review Letters</i> , 2005 , 94,	7.4	8
87	Anisotropy-enhanced vortex pinning by randomly splayed extended defects in high-Tc superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 335, 144-147	1.3	8

86	Thermal Suppression of Strong Pinning. <i>Physical Review Letters</i> , 1998 , 81, 906-909	7.4	8
85	Spontaneous Valley Spirals in Magnetically Encapsulated Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021 , 126, 056803	7.4	8
84	Cavity-Mediated Coherent Coupling between Distant Quantum Dots. <i>Physical Review Letters</i> , 2018 , 120, 236801	7.4	7
83	Quantum abacus for counting and factorizing numbers. <i>Physical Review A</i> , 2011 , 83,	2.6	7
82	Vortices in weakly coupled layered superconductors. <i>Physica B: Condensed Matter</i> , 2000 , 280, 220-224	2.8	7
81	Quantum intrinsic Hall creep. <i>Physical Review B</i> , 1995 , 52, 10581-10587	3.3	7
80	Krusin-Elbaum, Blatter, and Civale reply. <i>Physical Review Letters</i> , 1995 , 75, 187	7.4	7
79	Open quantum systems beyond Fermi's golden rule: Diagrammatic expansion of the steady-state time-convolutionless master equations. <i>Physical Review Research</i> , 2021 , 3,	3.9	7
78	Time correlators from deferred measurements. <i>Physical Review B</i> , 2016 , 93,	3.3	6
77	Strong pinning theory of thermal vortex creep in type-II superconductors. <i>Physical Review B</i> , 2019 , 100,	3.3	6
76	Projective versus weak measurement of charge in a mesoscopic conductor. <i>Physical Review B</i> , 2014 , 90,	3.3	6
75	Andreev quantum dot with several conducting channels. <i>Physical Review B</i> , 2012 , 85,	3.3	6
74	Surface melting of the vortex lattice. <i>Physical Review Letters</i> , 2006 , 96, 177001	7.4	6
73	Density functional theory of vortex lattice melting in layered superconductors: A mean-field substrate approach. <i>Physical Review B</i> , 2007 , 75,	3.3	6
72	Optical resonances in reflectivity due to crystal modes with spatial dispersion. <i>Physical Review B</i> , 2003 , 68,	3.3	6
71	Marginal pinning of quenched random polymers. <i>Physical Review B</i> , 2000 , 62, 14032-14039	3.3	6
70	Renormalization-group analysis of weak collective pinning in type-II superconductors. <i>Physical Review B</i> , 1999 , 59, 11551-11562	3.3	6
69	Vortex Matter 2003 , 725-936		6

- 68 Entropy Dynamics in the System of Interacting Qubits. *Journal of Russian Laser Research*, **2018**, 39, 120-127 5
- 67 Temperature dependence of the lower critical field H_{c1} in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ single crystals. *Physica C: Superconductivity and Its Applications*, **1997**, 282-287, 1301-1302 1.3 5
- 66 Thermally activated Hall creep of flux lines from a columnar defect. *Physical Review B*, **1998**, 57, 3577-3585 3.3 5
- 65 Quantum statistical mechanics of vortices in type II superconductors. *Journal of Low Temperature Physics*, **1994**, 95, 365-376 1.3 5
- 64 Substrate-induced topological minibands in graphene. *Physical Review B*, **2018**, 98, 080401 3.3 5
- 63 Optimal noninvasive measurement of full counting statistics by a single qubit. *Physical Review B*, **2016**, 93, 080401 3.3 4
- 62 Long-range spin coherence in a strongly coupled all-electronic dot-cavity system. *Physical Review B*, **2017**, 96, 080401 3.3 4
- 61 Scattering matrix approach to interacting electron transport. *Physical Review B*, **2012**, 86, 080401 3.3 4
- 60 Measurement Back-Action in Quantum Point-Contact Charge Sensing. *Entropy*, **2010**, 12, 1721-1732 2.8 4
- 59 Quantum instability in a dc SQUID with strongly asymmetric dynamical parameters. *Physical Review B*, **2009**, 79, 080401 3.3 4
- 58 Mean-field glass transition in a model liquid. *Physical Review E*, **2005**, 72, 021502 2.4 4
- 57 Wave function collapse in a mesoscopic device. *Physical Review B*, **2005**, 71, 080401 3.3 4
- 56 Melting and decoupling in the vortex system of layered superconductors. *Physica C: Superconductivity and Its Applications*, **2000**, 332, 66-70 1.3 4
- 55 Singularities of the renormalization-group flow for random elastic manifolds. *Physical Review B*, **1999**, 59, 32-33 3.3 4
- 54 Casimir force between vortex matter in anisotropic and layered superconductors. *Physical Review B*, **1999**, 59, 11990-12000 3.3 4
- 53 Extended quantum Maxwell demon acting over macroscopic distances. *Physical Review B*, **2018**, 98, 080401 3.3 4
- 52 Emergent light crystal from frustration and pump engineering. *Physical Review B*, **2018**, 98, 080401 3.3 4
- 51 H-theorem and Maxwell demon in quantum physics **2018**, 3

50	Sequential quantum-enhanced measurement with an atomic ensemble. <i>Physical Review A</i> , 2014 , 89,	2.6	3
49	Competing structures in two-dimensional trapped dipolar gases. <i>Physical Review B</i> , 2014 , 90,	3.3	3
48	Flux-dependent crossover between quantum and classical behavior in a dc SQUID. <i>Physical Review Letters</i> , 2014 , 113, 247005	7.4	3
47	Deformations and dynamics of an elastic string in a periodic potential. <i>Physical Review B</i> , 1997 , 56, 416-424	3.4	3
46	Typical versus average helicity modulus in the three-dimensional gauge glass: Understanding the vortex glass phase. <i>Physical Review B</i> , 2007 , 75,	3.3	3
45	Spontaneous magnetic moments in clean normal-metal-superconductor proximity layers. <i>Physical Review B</i> , 2002 , 65,	3.3	3
44	Classical and quantum creep of vortices from columnar defects. <i>European Physical Journal D</i> , 1996 , 46, 1739-1740		3
43	Scattering of atomic beams off a single surface step: An exact solution. <i>Annals of Physics</i> , 1985 , 162, 100-131	3.1	3
42	Quantum stabilization of photonic spatial correlations. <i>Physica Scripta</i> , 2019 , 94, 024001	2.6	2
41	Mesoscopic aspects of strongly interacting cold atoms. <i>Physical Review B</i> , 2009 , 79,	3.3	2
40	Bell's inequality test with time-delayed two-particle correlations. <i>Physical Review B</i> , 2008 , 77,	3.3	2
39	Hysteretic magnetotransport in p-type Al _x Ga _{1-x} As heterostructures with In/Zn/Au Ohmic contacts. <i>Physical Review B</i> , 2008 , 77,	3.3	2
38	Surface melting of the vortex lattice in layered superconductors: Density functional theory. <i>Physical Review B</i> , 2007 , 75,	3.3	2
37	Pseudogap state in overdoped Bi ₂ Sr ₂ CaCu ₂ O _{8+y} . <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 387, 169-174	1.3	2
36	Vortex viscosity in the moderately clean limit of layered superconductors. <i>Physical Review B</i> , 2003 , 67,	3.3	2
35	Quantum statistical and dynamical effects in vortex systems. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 41-44	1.3	2
34	Vortices in high temperature superconductors: the statistical mechanics and dynamics of strings. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993 , 200, 341-350	3.3	2
33	Optimal Manifolds in Random Media. <i>Europhysics Letters</i> , 1989 , 10, 401-406	1.6	2

32	Role of rare events in the pinning problem. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
31	Linear Ascending Metrological Algorithm. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
30	Experimental test of strong pinning and creep in current-voltage characteristics of type-II superconductors. <i>Physical Review B</i> , 2019 , 100,	3.3	2
29	Finite-temperature perturbation theory for the random directed polymer problem. <i>Journal of Experimental and Theoretical Physics</i> , 2013 , 117, 570-578	1	1
28	Influence of a random telegraph process on the transport through a point contact. <i>European Physical Journal B</i> , 2011 , 83, 349-356	1.2	1
27	Relaxation rates of flux-lines and flux-pancakes in the presence of correlated disorder. <i>Physica C: Superconductivity and Its Applications</i> , 1997 , 276, 42-56	1.3	1
26	Van der Waals attraction of vortices in superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1997 , 282-287, 319-322	1.3	1
25	Nonlinear transport through NS junctions due to imperfect Andreev reflection. <i>JETP Letters</i> , 1998 , 68, 599-605	1.2	1
24	Vortex Matter 2008 , 495-637		1
23	The dynamically asymmetric SQUID: MÜchhausen effect. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 705-708	1.3	1
22	SEPARATED SPIN AND CHARGE DEGREES OF FREEDOM IN HIGH-T _c SUPERCONDUCTORS. <i>International Journal of Modern Physics B</i> , 2005 , 19, 193-197	1.1	1
21	Quantum computing with superconducting phase qubits. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 352, 105-109	1.3	1
20	Casimir force between two half spaces of vortex matter in anisotropic superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 332, 402-404	1.3	1
19	Quantum decay of a superflow through a weak link in a thin tube. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 332, 437-439	1.3	1
18	Dynamics of vortices pinned by columnar defects in YBa ₂ Cu ₃ O ₇ crystals. <i>European Physical Journal D</i> , 1996 , 46, 1661-1662		1
17	Renormalization group analysis of weak collective pinning. <i>European Physical Journal D</i> , 1996 , 46, 1815-1816		1
16	Path integral monte carlo simulation of vortices. <i>European Physical Journal D</i> , 1996 , 46, 1817-1818		1
15	Quantum depinning of vortices in type-II superconductors. <i>Physical Review B</i> , 1996 , 54, 13330-13338	3.3	1

- 14 Ballistic quasiparticle propagation and symmetry of the superconducting order parameter. *Physical Review B*, **1990**, 42, 4812-4814 3.3 1
- 13 Phase Diagram and Excitations of the Jaynes-Cummings-Hubbard Model. *Quantum Science and Technology*, **2017**, 23-41 1.2
- 12 Vortices in d-wave superconductors. *Physica B: Condensed Matter*, **1997**, 230-232, 932-934 2.8
- 11 Zeeman and orbital limiting magnetic fields in cuprates: The pseudogap connection **2006**, 66, 219-225
- 10 Unusual upper critical field in the pyrochlore KOs₂O₆. *Journal of Physics: Conference Series*, **2006**, 51, 295-298 0.3
- 9 Surface effects on the pancake vortex phase diagram. *Physica C: Superconductivity and Its Applications*, **2004**, 404, 119-122 1.3
- 8 From Frustrated Ising Models to Quantum Computing. *Springer Proceedings in Physics*, **2003**, 75-88 0.2
- 7 Hall Tunneling of Vortices in Superclean Superconductors. *Journal of Superconductivity and Novel Magnetism*, **1999**, 12, 835-837
- 6 Low-field vortex dynamics over seven time decades in a Bi₂212 single crystal. *European Physical Journal D*, **1996**, 46, 1725-1726
- 5 Van der Waals attraction between vortices in HTSC. *European Physical Journal D*, **1996**, 46, 1827-1828
- 4 Vortex charge in type II superconductors. *European Physical Journal D*, **1996**, 46, 909-910
- 3 Fluctuations and disorder in high temperature superconductors. *Physica B: Condensed Matter*, **1994**, 194-196, 1795-1796 2.8
- 2 Hall tunneling of vortices. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 2963-2964 1.3
- 1 Statistical Mechanics of Vortex Lines **1999**, 435-463