

Gert-Ludwig Ingold

List of Publications by Year in descending order

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92
papers

21,659
citations

147566

31
h-index

49773

87
g-index

95
all docs

95
docs citations

95
times ranked

28898
citing authors

#	ARTICLE	IF	CITATIONS
1	SciPy 1.0: fundamental algorithms for scientific computing in Python. Nature Methods, 2020, 17, 261-272.	9.0	17,539
2	Quantum Brownian motion: The functional integral approach. Physics Reports, 1988, 168, 115-207.	10.3	961
3	Effect of the electromagnetic environment on the Coulomb blockade in ultrasmall tunnel junctions. Physical Review Letters, 1990, 64, 1824-1827.	2.9	477
4	Fundamental aspects of quantum Brownian motion. Chaos, 2005, 15, 026105.	1.0	221
5	Onset of Global Phase Coherence in Josephson-Junction Arrays: A Dissipative Phase Transition. Physical Review Letters, 1986, 56, 2303-2306.	2.9	208
6	Charge Tunneling Rates in Ultrasmall Junctions. NATO ASI Series Series B: Physics, 1992, , 21-107.	0.2	190
7	Cooper-pair current through ultrasmall Josephson junctions. Physical Review B, 1994, 50, 395-402.	1.1	120
8	Finite quantum dissipation: the challenge of obtaining specific heat. New Journal of Physics, 2008, 10, 115008.	1.2	116
9	Quantum statistical mechanics of an array of resistively shunted Josephson junctions. Physical Review B, 1988, 37, 3283-3294.	1.1	106
10	Quantum Theory of Activated Events in Presence of Long-Time Memory. Physical Review Letters, 1985, 55, 761-764.	2.9	93
11	Specific heat anomalies of open quantum systems. Physical Review E, 2009, 79, 061105.	0.8	85
12	Phase-space visualization of a metal-insulator transition. New Journal of Physics, 2004, 6, 70-70.	1.2	74
13	Surface plasmon in metallic nanoparticles: Renormalization effects due to electron-hole excitations. Physical Review B, 2006, 74, .	1.1	74
14	Single electron tunneling rates in multijunction circuits. European Physical Journal B, 1991, 84, 143-155.	0.6	73
15	Path Integrals and Their Application to Dissipative Quantum Systems. Lecture Notes in Physics, 2002, , 1-53.	0.3	61
16	Localization and anomalous diffusion of a damped quantum particle. Physical Review Letters, 1987, 58, 1285-1288.	2.9	60
17	Finite-Temperature Current-Voltage Characteristics of Ultrasmall Tunnel Junctions. Europhysics Letters, 1991, 14, 371-376.	0.7	56
18	Probing the Casimir force with optical tweezers. Europhysics Letters, 2015, 112, 44001.	0.7	56

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19	On the electrostatic potential profile in biased molecular wires. <i>Journal of Chemical Physics</i> , 2002, 117, 10837-10841.	1.2	54
20	Plasma versus Drude Modeling of the Casimir Force: Beyond the Proximity Force Approximation. <i>Physical Review Letters</i> , 2017, 119, 043901.	2.9	53
21	Phase diffusion and charging effects in Josephson junctions. <i>Europhysics Letters</i> , 1998, 44, 360-366.	0.7	52
22	Effect of the electromagnetic environment on the single electron transistor. <i>European Physical Journal B</i> , 1991, 85, 443-449.	0.6	50
23	Effect of Zero Point Phase Fluctuations on Josephson Tunneling. <i>Physical Review Letters</i> , 1999, 83, 3721-3724.	2.9	46
24	Incoherent charge transport through molecular wires: interplay of Coulomb interaction and wire population. <i>Chemical Physics</i> , 2002, 281, 199-209.	0.9	45
25	Quantum dissipative Brownian motion and the Casimir effect. <i>Physical Review E</i> , 2009, 80, 041113.	0.8	44
26	The electrostatic potential profile along a biased molecular wire: A model quantum-mechanical calculation. <i>Journal of Chemical Physics</i> , 2003, 118, 3756-3763.	1.2	42
27	Charge transport through a molecule driven by a high-frequency field. <i>Chemical Physics</i> , 2004, 296, 243-249.	0.9	39
28	Measurement of the Casimir Force between 0.2 and 8 μm : Experimental Procedures and Comparison with Theory. <i>Universe</i> , 2021, 7, 93.	0.9	39
29	Conductance through a one-dimensional correlated system: Relation to persistent currents and the role of the contacts. <i>Physical Review B</i> , 2003, 67, .	1.1	38
30	Dissipative quantum systems with a potential barrier: General theory and the parabolic barrier. <i>Physical Review E</i> , 1995, 51, 4267-4281.	0.8	35
31	Delocalization and Heisenberg's uncertainty relation. <i>European Physical Journal B</i> , 2002, 30, 175-179.	0.6	34
32	Long-time tails in quantum Brownian motion. <i>Physical Review A</i> , 1985, 32, 2510-2512.	1.0	21
33	Classical Casimir interaction in the plane-sphere geometry. <i>Physical Review A</i> , 2012, 85, .	1.0	21
34	Proximity force approximation and specular reflection: Application of the WKB limit of Mie scattering to the Casimir effect. <i>Physical Review A</i> , 2018, 97, .	1.0	21
35	Thermodynamics of non-interacting bosons in low-dimensional potentials. <i>European Physical Journal D</i> , 1998, 1, 29-32.	0.6	20
36	Residual conductance of correlated one-dimensional nanosystems: A numerical approach. <i>European Physical Journal B</i> , 2004, 39, 107-120.	0.6	20

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37	Thermodynamic anomaly of the free damped quantum particle: the bath perspective. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	17
38	Negative entropies in Casimir and Casimir-Polder interactions. <i>Fortschritte Der Physik</i> , 2017, 65, 1600047.	1.5	16
39	Dissipative transport across a parabolic barrier. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991, 264, 253-258.	1.5	15
40	Approaching infinite temperature upon repeated measurements of a quantum system. <i>Physical Review A</i> , 2011, 84, .	1.0	15
41	Disentangling geometric and dissipative origins of negative Casimir entropies. <i>Physical Review E</i> , 2015, 92, 042125.	0.8	15
42	Role of diffraction in the Casimir effect beyond the proximity force approximation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, C77.	0.9	15
43	Phase-space signatures of the Anderson transition. <i>Physical Review B</i> , 2003, 68, .	1.1	14
44	Geometric origin of negative Casimir entropies: A scattering-channel analysis. <i>Physical Review E</i> , 2015, 91, 033203.	0.8	14
45	Advancing numerics for the Casimir effect to experimentally relevant aspect ratios. <i>Physica Scripta</i> , 2018, 93, 114003.	1.2	14
46	Nonclassical phase-space trajectories for the damped harmonic quantum oscillator. <i>Chemical Physics</i> , 2010, 375, 209-215.	0.9	13
47	Transport of flexible chiral objects in a uniform shear flow. <i>New Journal of Physics</i> , 2012, 14, 073006.	1.2	13
48	Casimir effect from a scattering approach. <i>American Journal of Physics</i> , 2015, 83, 156-162.	0.3	13
49	Plane-wave approach to the exact van der Waals interaction between colloid particles. <i>Journal of Chemical Physics</i> , 2020, 153, 024115.	1.2	13
50	Mesoscopic Josephson effect. <i>Superlattices and Microstructures</i> , 1999, 25, 915-923.	1.4	11
51	Identification of Coulomb blockade and macroscopic quantum tunneling by noise. <i>Europhysics Letters</i> , 2002, 58, 429-434.	0.7	11
52	Negative Casimir entropies in nanoparticle interactions. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 214003.	0.7	11
53	Quantum revival patterns from classical phase-space trajectories. <i>Physical Review A</i> , 2019, 99, .	1.0	11
54	Fission decay rates from a quantal transport equation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 317, 489-494.	1.5	10

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55	The Casimir Interaction between Spheres Immersed in Electrolytes. <i>Universe</i> , 2021, 7, 156.	0.9	10
56	Sidebands in the light absorption of driven metallic nanoparticles. <i>European Physical Journal D</i> , 2007, 44, 359-366.	0.6	9
57	Thermodynamic anomalies in the presence of general linear dissipation: from the free particle to the harmonic oscillator. <i>European Physical Journal B</i> , 2014, 87, 1.	0.6	9
58	Probing the screening of the Casimir interaction with optical tweezers. <i>Physical Review Research</i> , 2021, 3, .	1.3	9
59	Influence of the environment on charge quantization in small superconducting islands. <i>Physical Review B</i> , 1994, 50, 12811-12819.	1.1	8
60	Detection of interaction-induced nonlocal effects using perfectly transmitting nanostructures. <i>European Physical Journal B</i> , 2008, 66, 239-244.	0.6	8
61	Reentrant classicality of a damped system. <i>Europhysics Letters</i> , 2013, 103, 60007.	0.7	8
62	Nonequilibrium effects in the Casimir force between two similar metallic plates kept at different temperatures. <i>Physical Review A</i> , 2020, 101, .	1.0	8
63	Observability of the coulomb blockade in single tunnel junctions. <i>Physica B: Condensed Matter</i> , 1990, 165-166, 977-978.	1.3	7
64	Identitätsverlust mit Folgen: vom Quantengas zur Bose-Einstein-Kondensation. <i>Physik in Unserer Zeit</i> , 1996, 27, 200-205.	0.0	7
65	Anomaly in the relaxation dynamics close to the surface plasmon resonance. <i>Europhysics Letters</i> , 2007, 78, 27002.	0.7	7
66	Lissajous curves and semiclassical theory: The two-dimensional harmonic oscillator. <i>American Journal of Physics</i> , 2007, 75, 208-215.	0.3	7
67	Metaplectic sheets and caustic traversals in the Weyl representation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 105303.	0.7	7
68	Classical Casimir free energy for two Drude spheres of arbitrary radii: A plane-wave approach. <i>SciPost Physics Core</i> , 2021, 4, .	0.9	7
69	Supercurrent in ultrasmall Josephson junctions. <i>Physica B: Condensed Matter</i> , 1994, 194-196, 1025-1026.	1.3	5
70	Accounting for Dissipation in the Scattering Approach to the Casimir Energy. <i>Symmetry</i> , 2018, 10, 37.	1.1	5
71	On the observability of Coulomb blockade and single-electron tunneling. <i>Ultramicroscopy</i> , 1992, 42-44, 22-32.	0.8	4
72	Semiclassical analysis of level widths for one-dimensional potentials. <i>American Journal of Physics</i> , 2001, 69, 201-206.	0.3	4

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73	From ballistic motion to localization: a phase space analysis. European Physical Journal B, 2002, 27, 11-14.	0.6	4
74	Relation between phase-space coverage and entanglement for spin-1/2 systems. Physical Review A, 2007, 75, .	1.0	4
75	The embedding method beyond the single-channel case. European Physical Journal B, 2010, 75, 253-266.	0.6	4
76	CaPS: Casimir Effect in the Plane-Sphere Geometry. Journal of Open Source Software, 2020, 5, 2011.	2.0	4
77	Transport through cavities with tunnel barriers: a semiclassical analysis. European Physical Journal B, 1998, 3, 387-396.	0.6	3
78	Unitary dynamics and finite-time measurements: a case study. Physica Scripta, 2015, T165, 014014.	1.2	3
79	Anomalies in the specific heat of a free damped particle: the role of the cutoff in the spectral density of the coupling. Physica Scripta, 2015, T165, 014028.	1.2	3
80	Casimir Interaction between a Plane and a Sphere: Correction to the Proximity-Force Approximation at Intermediate Temperatures. Universe, 2021, 7, 129.	0.9	3
81	Title is missing!. European Physical Journal B, 2002, 27, 11-14.	0.6	3
82	Sluggish decay of preparation effects in low temperature quantum systems. Lecture Notes in Mathematics, 1990, , 219-230.	0.1	2
83	The quantum canonical ensemble in phase space. Physica D: Nonlinear Phenomena, 2021, 424, 132951.	1.3	2
84	Effect of the Electromagnetic Environment on Single Charge Tunneling. , 1993, , 245-256.		1
85	Weder Fermionen noch Bosonen. Physik in Unserer Zeit, 1994, 25, 81-86.	0.0	1
86	Superconducting box coupled to a classical environment. Physica B: Condensed Matter, 1994, 203, 369-375.	1.3	1
87	Casimir effect between spherical objects: Proximity-force approximation and beyond using plane waves. International Journal of Modern Physics A, 2022, 37, .	0.5	1
88	Universal Casimir Interaction between Two Dielectric Spheres in Salted Water. Physical Review Letters, 2022, 128, .	2.9	1
89	Localization and Anomalous Diffusion of a Damped Quantum Particle. Physical Review Letters, 1987, 58, 2386-2386.	2.9	0
90	Relativistic Astrophysics: 162. WEÄCHeraeusâ€Seminar/Physics and Dynamics between Chaos, Order, and Noise: Chaos, Order, and Noise/Quantum Chaos and Dissipation: 164. WEÄCHeraeusâ€Seminar. Physik Journal, 1996, 52, 1250-1251.	0.1	0

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91	Josephson effect and quantum fluctuations. Physica B: Condensed Matter, 2000, 284-288, 1824-1825.	1.3	0
92	PROPERTIES OF LOW TEMPERATURE QUANTUM NOISE. , 1986, , 277-279.		0