

Gert-Ludwig Ingold

List of Publications by Citations

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89
papers

9,838
citations

30
h-index

95
g-index

95
ext. papers

15,578
ext. citations

3.2
avg, IF

5.43
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 89 | SciPy 1.0: fundamental algorithms for scientific computing in Python. <i>Nature Methods</i> , 2020 , 17, 261-272 | 21.6 | 6244 |
| 88 | Quantum Brownian motion: The functional integral approach. <i>Physics Reports</i> , 1988 , 168, 115-207 | 27.7 | 879 |
| 87 | Effect of the electromagnetic environment on the Coulomb blockade in ultrasmall tunnel junctions. <i>Physical Review Letters</i> , 1990 , 64, 1824-1827 | 7.4 | 429 |
| 86 | Fundamental aspects of quantum Brownian motion. <i>Chaos</i> , 2005 , 15, 26105 | 3.3 | 203 |
| 85 | Onset of global phase coherence in Josephson junction arrays: A dissipative phase transition. <i>Physical Review Letters</i> , 1986 , 56, 2303-2306 | 7.4 | 193 |
| 84 | Charge Tunneling Rates in Ultrasmall Junctions. <i>NATO ASI Series Series B: Physics</i> , 1992 , 21-107 | | 156 |
| 83 | Finite quantum dissipation: the challenge of obtaining specific heat. <i>New Journal of Physics</i> , 2008 , 10, 115008 | 2.9 | 107 |
| 82 | Cooper-pair current through ultrasmall Josephson junctions. <i>Physical Review B</i> , 1994 , 50, 395-402 | 3.3 | 106 |
| 81 | Quantum statistical mechanics of an array of resistively shunted Josephson junctions. <i>Physical Review B</i> , 1988 , 37, 3283-3294 | 3.3 | 100 |
| 80 | Quantum theory of activated events in presence of long-time memory. <i>Physical Review Letters</i> , 1985 , 55, 761-764 | 7.4 | 89 |
| 79 | Specific heat anomalies of open quantum systems. <i>Physical Review E</i> , 2009 , 79, 061105 | 2.4 | 72 |
| 78 | Surface plasmon in metallic nanoparticles: Renormalization effects due to electron-hole excitations. <i>Physical Review B</i> , 2006 , 74, | 3.3 | 65 |
| 77 | Single electron tunneling rates in multijunction circuits. <i>European Physical Journal B</i> , 1991 , 84, 143-155 | 1.2 | 65 |
| 76 | Phase-space visualization of a metal-insulator transition. <i>New Journal of Physics</i> , 2004 , 6, 70-70 | 2.9 | 63 |
| 75 | Localization and anomalous diffusion of a damped quantum particle. <i>Physical Review Letters</i> , 1987 , 58, 1285-1288 | 7.4 | 57 |
| 74 | Path Integrals and Their Application to Dissipative Quantum Systems. <i>Lecture Notes in Physics</i> , 2002 , 1-53 | 0.8 | 54 |
| 73 | On the electrostatic potential profile in biased molecular wires. <i>Journal of Chemical Physics</i> , 2002 , 117, 10837-10841 | 3.9 | 49 |

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| 72 | Finite-Temperature Current-Voltage Characteristics of Ultrasmall Tunnel Junctions. <i>Europhysics Letters</i> , 1991 , 14, 371-376 | 1.6 | 49 |
| 71 | Phase diffusion and charging effects in Josephson junctions. <i>Europhysics Letters</i> , 1998 , 44, 360-366 | 1.6 | 46 |
| 70 | Effect of the electromagnetic environment on the single electron transistor. <i>European Physical Journal B</i> , 1991 , 85, 443-449 | 1.2 | 46 |
| 69 | Probing the Casimir force with optical tweezers. <i>Europhysics Letters</i> , 2015 , 112, 44001 | 1.6 | 42 |
| 68 | Effect of Zero Point Phase Fluctuations on Josephson Tunneling. <i>Physical Review Letters</i> , 1999 , 83, 3721-3724 | 1.4 | 42 |
| 67 | Quantum dissipative Brownian motion and the Casimir effect. <i>Physical Review E</i> , 2009 , 80, 041113 | 2.4 | 41 |
| 66 | Plasma versus Drude Modeling of the Casimir Force: Beyond the Proximity Force Approximation. <i>Physical Review Letters</i> , 2017 , 119, 043901 | 7.4 | 40 |
| 65 | Conductance through a one-dimensional correlated system: Relation to persistent currents and the role of the contacts. <i>Physical Review B</i> , 2003 , 67, | 3.3 | 38 |
| 64 | Incoherent charge transport through molecular wires: interplay of Coulomb interaction and wire population. <i>Chemical Physics</i> , 2002 , 281, 199-209 | 2.3 | 37 |
| 63 | Charge transport through a molecule driven by a high-frequency field. <i>Chemical Physics</i> , 2004 , 296, 243-249 | 2.4 | 33 |
| 62 | The electrostatic potential profile along a biased molecular wire: A model quantum-mechanical calculation. <i>Journal of Chemical Physics</i> , 2003 , 118, 3756-3763 | 3.9 | 33 |
| 61 | Dissipative quantum systems with a potential barrier: General theory and the parabolic barrier. <i>Physical Review E</i> , 1995 , 51, 4267-4281 | 2.4 | 33 |
| 60 | Delocalization and Heisenberg's uncertainty relation. <i>European Physical Journal B</i> , 2002 , 30, 175-179 | 1.2 | 31 |
| 59 | Thermodynamics of non-interacting bosons in low-dimensional potentials. <i>European Physical Journal D</i> , 1998 , 1, 29-32 | 1.3 | 20 |
| 58 | Residual conductance of correlated one-dimensional nanosystems: A numerical approach. <i>European Physical Journal B</i> , 2004 , 39, 107-120 | 1.2 | 18 |
| 57 | Classical Casimir interaction in the plane-sphere geometry. <i>Physical Review A</i> , 2012 , 85, | 2.6 | 17 |
| 56 | Long-time tails in quantum Brownian motion. <i>Physical Review A</i> , 1985 , 32, 2510-2512 | 2.6 | 17 |
| 55 | Thermodynamic anomaly of the free damped quantum particle: the bath perspective. <i>European Physical Journal B</i> , 2012 , 85, 1 | 1.2 | 15 |

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| 54 | Dissipative transport across a parabolic barrier. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 264, 253-258 | 4.2 | 15 |
| 53 | Phase-space signatures of the Anderson transition. <i>Physical Review B</i> , 2003 , 68, | 3.3 | 14 |
| 52 | Disentangling geometric and dissipative origins of negative Casimir entropies. <i>Physical Review E</i> , 2015 , 92, 042125 | 2.4 | 13 |
| 51 | Transport of flexible chiral objects in a uniform shear flow. <i>New Journal of Physics</i> , 2012 , 14, 073006 | 2.9 | 13 |
| 50 | Approaching infinite temperature upon repeated measurements of a quantum system. <i>Physical Review A</i> , 2011 , 84, | 2.6 | 12 |
| 49 | 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, | 2.6 | 11 |
| 48 | Nonclassical phase-space trajectories for the damped harmonic quantum oscillator. <i>Chemical Physics</i> , 2010 , 375, 209-215 | 2.3 | 11 |
| 47 | Negative entropies in Casimir and Casimir-Polder interactions. <i>Fortschritte Der Physik</i> , 2017 , 65, 16000475.7 | | 10 |
| 46 | Geometric origin of negative Casimir entropies: A scattering-channel analysis. <i>Physical Review E</i> , 2015 , 91, 033203 | 2.4 | 10 |
| 45 | Identification of Coulomb blockade and macroscopic quantum tunneling by noise. <i>Europhysics Letters</i> , 2002 , 58, 429-434 | 1.6 | 10 |
| 44 | 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 | 4.2 | 10 |
| 43 | 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 | 1.7 | 10 |
| 42 | Casimir effect from a scattering approach. <i>American Journal of Physics</i> , 2015 , 83, 156-162 | 0.7 | 9 |
| 41 | Sidebands in the light absorption of driven metallic nanoparticles. <i>European Physical Journal D</i> , 2007 , 44, 359-366 | 1.3 | 9 |
| 40 | Measurement of the Casimir Force between 0.2 and 8 μm : Experimental Procedures and Comparison with Theory. <i>Universe</i> , 2021 , 7, 93 | 2.5 | 9 |
| 39 | Advancing numerics for the Casimir effect to experimentally relevant aspect ratios. <i>Physica Scripta</i> , 2018 , 93, 114003 | 2.6 | 9 |
| 38 | Negative Casimir entropies in nanoparticle interactions. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 214003 | 1.8 | 8 |
| 37 | Mesoscopic Josephson effect. <i>Superlattices and Microstructures</i> , 1999 , 25, 915-923 | 2.8 | 8 |

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| 36 | 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 | 1.2 | 7 |
| 35 | Reentrant classicality of a damped system. <i>Europhysics Letters</i> , 2013 , 103, 60007 | 1.6 | 7 |
| 34 | Detection of interaction-induced nonlocal effects using perfectly transmitting nanostructures. <i>European Physical Journal B</i> , 2008 , 66, 239-244 | 1.2 | 7 |
| 33 | Observability of the coulomb blockade in single tunnel junctions. <i>Physica B: Condensed Matter</i> , 1990 , 165-166, 977-978 | 2.8 | 7 |
| 32 | Plane-wave approach to the exact van der Waals interaction between colloid particles. <i>Journal of Chemical Physics</i> , 2020 , 153, 024115 | 3.9 | 7 |
| 31 | Quantum revival patterns from classical phase-space trajectories. <i>Physical Review A</i> , 2019 , 99, | 2.6 | 6 |
| 30 | Anomaly in the relaxation dynamics close to the surface plasmon resonance. <i>Europhysics Letters</i> , 2007 , 78, 27002 | 1.6 | 6 |
| 29 | Lissajous curves and semiclassical theory: The two-dimensional harmonic oscillator. <i>American Journal of Physics</i> , 2007 , 75, 208-215 | 0.7 | 6 |
| 28 | Supercurrent in ultrasmall Josephson junctions. <i>Physica B: Condensed Matter</i> , 1994 , 194-196, 1025-1026 | 2.8 | 5 |
| 27 | Nonequilibrium effects in the Casimir force between two similar metallic plates kept at different temperatures. <i>Physical Review A</i> , 2020 , 101, | 2.6 | 4 |
| 26 | Metaplectic sheets and caustic traversals in the Weyl representation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014 , 47, 105303 | 2 | 4 |
| 25 | Relation between phase-space coverage and entanglement for spin-1/2 systems. <i>Physical Review A</i> , 2007 , 75, | 2.6 | 4 |
| 24 | Semiclassical analysis of level widths for one-dimensional potentials. <i>American Journal of Physics</i> , 2001 , 69, 201-206 | 0.7 | 4 |
| 23 | Identitätsverlust mit Folgen: vom Quantengas zur Bose-Einstein-Kondensation. <i>Physik in Unserer Zeit</i> , 1996 , 27, 200-205 | 0.1 | 4 |
| 22 | Influence of the environment on charge quantization in small superconducting islands. <i>Physical Review B</i> , 1994 , 50, 12811-12819 | 3.3 | 4 |
| 21 | On the observability of Coulomb blockade and single-electron tunneling. <i>Ultramicroscopy</i> , 1992 , 42-44, 22-32 | 3.1 | 4 |
| 20 | What Do Phase Space Methods Tell Us about Disordered Quantum Systems?. <i>Lecture Notes in Physics</i> , 85-97 | 0.8 | 4 |
| 19 | Unitary dynamics and finite-time measurements: a case study. <i>Physica Scripta</i> , 2015 , T165, 014014 | 2.6 | 3 |

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| 18 | Anomalies in the specific heat of a free damped particle: the role of the cutoff in the spectral density of the coupling. <i>Physica Scripta</i> , 2015 , T165, 014028 | 2.6 | 3 |
| 17 | The embedding method beyond the single-channel case. <i>European Physical Journal B</i> , 2010 , 75, 253-266 | 1.2 | 3 |
| 16 | Transport through cavities with tunnel barriers: a semiclassical analysis. <i>European Physical Journal B</i> , 1998 , 3, 387-396 | 1.2 | 3 |
| 15 | Accounting for Dissipation in the Scattering Approach to the Casimir Energy. <i>Symmetry</i> , 2018 , 10, 37 | 2.7 | 2 |
| 14 | From ballistic motion to localization: a phase space analysis. <i>European Physical Journal B</i> , 2002 , 27, 11-14 | 1.2 | 2 |
| 13 | Sluggish decay of preparation effects in low temperature quantum systems. <i>Lecture Notes in Mathematics</i> , 1990 , 219-230 | 0.4 | 2 |
| 12 | CaPS: Casimir Effect in the Plane-Sphere Geometry. <i>Journal of Open Source Software</i> , 2020 , 5, 2011 | 5.2 | 2 |
| 11 | The Casimir Interaction between Spheres Immersed in Electrolytes. <i>Universe</i> , 2021 , 7, 156 | 2.5 | 2 |
| 10 | Weder Fermionen noch Bosonen. <i>Physik in Unserer Zeit</i> , 1994 , 25, 81-86 | 0.1 | 1 |
| 9 | Superconducting box coupled to a classical environment. <i>Physica B: Condensed Matter</i> , 1994 , 203, 369-375 | 5.8 | 1 |
| 8 | Classical Casimir free energy for two Drude spheres of arbitrary radii: A plane-wave approach. <i>SciPost Physics Core</i> , 2021 , 4, | 3.9 | 1 |
| 7 | Expedition ins Reich der Quanten. <i>Wege Zum Menschen</i> , 2009 , 61, 216-226 | 0 | 0 |
| 6 | Casimir Interaction between a Plane and a Sphere: Correction to the Proximity-Force Approximation at Intermediate Temperatures. <i>Universe</i> , 2021 , 7, 129 | 2.5 | 0 |
| 5 | The quantum canonical ensemble in phase space. <i>Physica D: Nonlinear Phenomena</i> , 2021 , 424, 132951 | 3.3 | 0 |
| 4 | Josephson effect and quantum fluctuations. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1824-1825 | 2.8 | |
| 3 | Relativistic Astrophysics: 162. WE-Heraeus-Seminar/Physics and Dynamics between Chaos, Order, and Noise: Chaos, Order, and Noise/Quantum Chaos and Dissipation: 164. WE-Heraeus-Seminar. <i>Physik Journal</i> , 1996 , 52, 1250-1251 | | |
| 2 | Effect of the Electromagnetic Environment on Single Charge Tunneling 1993 , 245-256 | | |
| 1 | PROPERTIES OF LOW TEMPERATURE QUANTUM NOISE 1986 , 277-279 | | |

