

# Gert-Ludwig Ingold

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Measurement of the Casimir Force between 0.2 and 8 $\mu\text{m}$ : Experimental Procedures and Comparison with Theory. <i>Universe</i> , <b>2021</b> , 7, 93	2.5	9
88	Casimir Interaction between a Plane and a Sphere: Correction to the Proximity-Force Approximation at Intermediate Temperatures. <i>Universe</i> , <b>2021</b> , 7, 129	2.5	0
87	The Casimir Interaction between Spheres Immersed in Electrolytes. <i>Universe</i> , <b>2021</b> , 7, 156	2.5	2
86	Classical Casimir free energy for two Drude spheres of arbitrary radii: A plane-wave approach. <i>SciPost Physics Core</i> , <b>2021</b> , 4,	3.9	1
85	The quantum canonical ensemble in phase space. <i>Physica D: Nonlinear Phenomena</i> , <b>2021</b> , 424, 132951	3.3	0
84	Nonequilibrium effects in the Casimir force between two similar metallic plates kept at different temperatures. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	4
83	SciPy 1.0: fundamental algorithms for scientific computing in Python. <i>Nature Methods</i> , <b>2020</b> , 17, 261-272	21.6	6244
82	CaPS: Casimir Effect in the Plane-Sphere Geometry. <i>Journal of Open Source Software</i> , <b>2020</b> , 5, 2011	5.2	2
81	Plane-wave approach to the exact van der Waals interaction between colloid particles. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 024115	3.9	7
80	Quantum revival patterns from classical phase-space trajectories. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	6
79	Role of diffraction in the Casimir effect beyond the proximity force approximation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, C77	1.7	10
78	Accounting for Dissipation in the Scattering Approach to the Casimir Energy. <i>Symmetry</i> , <b>2018</b> , 10, 37	2.7	2
77	Proximity force approximation and specular reflection: Application of the WKB limit of Mie scattering to the Casimir effect. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	11
76	Advancing numerics for the Casimir effect to experimentally relevant aspect ratios. <i>Physica Scripta</i> , <b>2018</b> , 93, 114003	2.6	9
75	Negative entropies in Casimir and Casimir-Polder interactions. <i>Fortschritte Der Physik</i> , <b>2017</b> , 65, 16000475	7.7	10
74	Plasma versus Drude Modeling of the Casimir Force: Beyond the Proximity Force Approximation. <i>Physical Review Letters</i> , <b>2017</b> , 119, 043901	7.4	40
73	Casimir effect from a scattering approach. <i>American Journal of Physics</i> , <b>2015</b> , 83, 156-162	0.7	9

72	Geometric origin of negative Casimir entropies: A scattering-channel analysis. <i>Physical Review E</i> , <b>2015</b> , 91, 033203	2.4	10
71	Negative Casimir entropies in nanoparticle interactions. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 214003	1.8	8
70	Probing the Casimir force with optical tweezers. <i>Europhysics Letters</i> , <b>2015</b> , 112, 44001	1.6	42
69	Disentangling geometric and dissipative origins of negative Casimir entropies. <i>Physical Review E</i> , <b>2015</b> , 92, 042125	2.4	13
68	Unitary dynamics and finite-time measurements: a case study. <i>Physica Scripta</i> , <b>2015</b> , T165, 014014	2.6	3
67	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> , <b>2015</b> , T165, 014028	2.6	3
66	Thermodynamic anomalies in the presence of general linear dissipation: from the free particle to the harmonic oscillator. <i>European Physical Journal B</i> , <b>2014</b> , 87, 1	1.2	7
65	Metaplectic sheets and caustic traversals in the Weyl representation. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2014</b> , 47, 105303	2	4
64	Reentrant classicality of a damped system. <i>Europhysics Letters</i> , <b>2013</b> , 103, 60007	1.6	7
63	Thermodynamic anomaly of the free damped quantum particle: the bath perspective. <i>European Physical Journal B</i> , <b>2012</b> , 85, 1	1.2	15
62	Transport of flexible chiral objects in a uniform shear flow. <i>New Journal of Physics</i> , <b>2012</b> , 14, 073006	2.9	13
61	Classical Casimir interaction in the plane-sphere geometry. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	17
60	Approaching infinite temperature upon repeated measurements of a quantum system. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	12
59	The embedding method beyond the single-channel case. <i>European Physical Journal B</i> , <b>2010</b> , 75, 253-266	1.2	3
58	Nonclassical phase-space trajectories for the damped harmonic quantum oscillator. <i>Chemical Physics</i> , <b>2010</b> , 375, 209-215	2.3	11
57	Specific heat anomalies of open quantum systems. <i>Physical Review E</i> , <b>2009</b> , 79, 061105	2.4	72
56	Quantum dissipative Brownian motion and the Casimir effect. <i>Physical Review E</i> , <b>2009</b> , 80, 041113	2.4	41
55	Expedition ins Reich der Quanten. <i>Wege Zum Menschen</i> , <b>2009</b> , 61, 216-226	0	0

54	Finite quantum dissipation: the challenge of obtaining specific heat. <i>New Journal of Physics</i> , <b>2008</b> , 10, 115008	2.9	107
53	Detection of interaction-induced nonlocal effects using perfectly transmitting nanostructures. <i>European Physical Journal B</i> , <b>2008</b> , 66, 239-244	1.2	7
52	Sidebands in the light absorption of driven metallic nanoparticles. <i>European Physical Journal D</i> , <b>2007</b> , 44, 359-366	1.3	9
51	Anomaly in the relaxation dynamics close to the surface plasmon resonance. <i>Europhysics Letters</i> , <b>2007</b> , 78, 27002	1.6	6
50	Relation between phase-space coverage and entanglement for spin-1/2 systems. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	4
49	Lissajous curves and semiclassical theory: The two-dimensional harmonic oscillator. <i>American Journal of Physics</i> , <b>2007</b> , 75, 208-215	0.7	6
48	Surface plasmon in metallic nanoparticles: Renormalization effects due to electron-hole excitations. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	65
47	Fundamental aspects of quantum Brownian motion. <i>Chaos</i> , <b>2005</b> , 15, 26105	3.3	203
46	Residual conductance of correlated one-dimensional nanosystems: A numerical approach. <i>European Physical Journal B</i> , <b>2004</b> , 39, 107-120	1.2	18
45	Charge transport through a molecule driven by a high-frequency field. <i>Chemical Physics</i> , <b>2004</b> , 296, 243-249		33
44	Phase-space visualization of a metal-insulator transition. <i>New Journal of Physics</i> , <b>2004</b> , 6, 70-70	2.9	63
43	Conductance through a one-dimensional correlated system: Relation to persistent currents and the role of the contacts. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	38
42	The electrostatic potential profile along a biased molecular wire: A model quantum-mechanical calculation. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 3756-3763	3.9	33
41	Phase-space signatures of the Anderson transition. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	14
40	Incoherent charge transport through molecular wires: interplay of Coulomb interaction and wire population. <i>Chemical Physics</i> , <b>2002</b> , 281, 199-209	2.3	37
39	Delocalization and Heisenberg's uncertainty relation. <i>European Physical Journal B</i> , <b>2002</b> , 30, 175-179	1.2	31
38	From ballistic motion to localization: a phase space analysis. <i>European Physical Journal B</i> , <b>2002</b> , 27, 11-14	1.2	2
37	On the electrostatic potential profile in biased molecular wires. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 10837-10841	3.9	49

36	Identification of Coulomb blockade and macroscopic quantum tunneling by noise. <i>Europhysics Letters</i> , <b>2002</b> , 58, 429-434	1.6	10
35	Path Integrals and Their Application to Dissipative Quantum Systems. <i>Lecture Notes in Physics</i> , <b>2002</b> , 1-53	0.8	54
34	Semiclassical analysis of level widths for one-dimensional potentials. <i>American Journal of Physics</i> , <b>2001</b> , 69, 201-206	0.7	4
33	Josephson effect and quantum fluctuations. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 284-288, 1824-1825	2.8	
32	Effect of Zero Point Phase Fluctuations on Josephson Tunneling. <i>Physical Review Letters</i> , <b>1999</b> , 83, 3721-3724	3.24	42
31	Mesoscopic Josephson effect. <i>Superlattices and Microstructures</i> , <b>1999</b> , 25, 915-923	2.8	8
30	Thermodynamics of non-interacting bosons in low-dimensional potentials. <i>European Physical Journal D</i> , <b>1998</b> , 1, 29-32	1.3	20
29	Transport through cavities with tunnel barriers: a semiclassical analysis. <i>European Physical Journal B</i> , <b>1998</b> , 3, 387-396	1.2	3
28	Phase diffusion and charging effects in Josephson junctions. <i>Europhysics Letters</i> , <b>1998</b> , 44, 360-366	1.6	46
27	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> , <b>1996</b> , 52, 1250-1251		
26	Identitätsverlust mit Folgen: vom Quantengas zur Bose-Einstein-Kondensation. <i>Physik in Unserer Zeit</i> , <b>1996</b> , 27, 200-205	0.1	4
25	Dissipative quantum systems with a potential barrier: General theory and the parabolic barrier. <i>Physical Review E</i> , <b>1995</b> , 51, 4267-4281	2.4	33
24	Cooper-pair current through ultrasmall Josephson junctions. <i>Physical Review B</i> , <b>1994</b> , 50, 395-402	3.3	106
23	Influence of the environment on charge quantization in small superconducting islands. <i>Physical Review B</i> , <b>1994</b> , 50, 12811-12819	3.3	4
22	Weder Fermionen noch Bosonen. <i>Physik in Unserer Zeit</i> , <b>1994</b> , 25, 81-86	0.1	1
21	Superconducting box coupled to a classical environment. <i>Physica B: Condensed Matter</i> , <b>1994</b> , 203, 369-375	2.8	1
20	Supercurrent in ultrasmall Josephson junctions. <i>Physica B: Condensed Matter</i> , <b>1994</b> , 194-196, 1025-1026	2.8	5
19	Effect of the Electromagnetic Environment on Single Charge Tunneling <b>1993</b> , 245-256		

18	Fission decay rates from a quantal transport equation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1993</b> , 317, 489-494	4.2	10
17	Charge Tunneling Rates in Ultrasmall Junctions. <i>NATO ASI Series Series B: Physics</i> , <b>1992</b> , 21-107		156
16	On the observability of Coulomb blockade and single-electron tunneling. <i>Ultramicroscopy</i> , <b>1992</b> , 42-44, 22-32	3.1	4
15	Single electron tunneling rates in multijunction circuits. <i>European Physical Journal B</i> , <b>1991</b> , 84, 143-155	1.2	65
14	Dissipative transport across a parabolic barrier. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 264, 253-258	4.2	15
13	Effect of the electromagnetic environment on the single electron transistor. <i>European Physical Journal B</i> , <b>1991</b> , 85, 443-449	1.2	46
12	Finite-Temperature Current-Voltage Characteristics of Ultrasmall Tunnel Junctions. <i>Europhysics Letters</i> , <b>1991</b> , 14, 371-376	1.6	49
11	Sluggish decay of preparation effects in low temperature quantum systems. <i>Lecture Notes in Mathematics</i> , <b>1990</b> , 219-230	0.4	2
10	Observability of the coulomb blockade in single tunnel junctions. <i>Physica B: Condensed Matter</i> , <b>1990</b> , 165-166, 977-978	2.8	7
9	Effect of the electromagnetic environment on the Coulomb blockade in ultrasmall tunnel junctions. <i>Physical Review Letters</i> , <b>1990</b> , 64, 1824-1827	7.4	429
8	Quantum Brownian motion: The functional integral approach. <i>Physics Reports</i> , <b>1988</b> , 168, 115-207	27.7	879
7	Quantum statistical mechanics of an array of resistively shunted Josephson junctions. <i>Physical Review B</i> , <b>1988</b> , 37, 3283-3294	3.3	100
6	Localization and anomalous diffusion of a damped quantum particle. <i>Physical Review Letters</i> , <b>1987</b> , 58, 1285-1288	7.4	57
5	Onset of global phase coherence in Josephson junction arrays: A dissipative phase transition. <i>Physical Review Letters</i> , <b>1986</b> , 56, 2303-2306	7.4	193
4	PROPERTIES OF LOW TEMPERATURE QUANTUM NOISE <b>1986</b> , 277-279		
3	Long-time tails in quantum Brownian motion. <i>Physical Review A</i> , <b>1985</b> , 32, 2510-2512	2.6	17
2	Quantum theory of activated events in presence of long-time memory. <i>Physical Review Letters</i> , <b>1985</b> , 55, 761-764	7.4	89
1	What Do Phase Space Methods Tell Us about Disordered Quantum Systems?. <i>Lecture Notes in Physics</i> , 85-97	0.8	4

