Thomas Ihn

List of Publications by Citations

340 papers	9,926 citations	52 h-index	84 g-index
371 ext. papers	11,105 ext. citations	5 avg, IF	5.94 L-index

#	Paper	IF	Citations
340	Counting statistics of single electron transport in a quantum dot. *Physical Review Letters*, **2006**, 96, 076605	7.4	412
339	Energy spectra of quantum rings. *Nature*, **2001**, 413, 822-5	50.4	401
338	Energy gaps in etched graphene nanoribbons. *Physical Review Letters*, **2009**, 102, 056403	7.4	343
337	Tunable graphene single electron transistor. *Nano Letters*, **2008**, 8, 2378-83	11.5	312
336	Dipole coupling of a double quantum dot to a microwave resonator. *Physical Review Letters*, **2012**, 108, 046807	7.4	241
335	Tunable Coulomb blockade in nanostructured graphene. *Applied Physics Letters*, **2008**, 92, 012102	3.4	222
334	Observation of excited states in a graphene quantum dot. *Applied Physics Letters*, **2009**, 94, 012107	3.4	141
333	Frequency-selective single-photon detection using a double quantum dot. *Physical Review Letters*, **2007**, 99, 206804	7.4	140
332	Transport gap in side-gated graphene constrictions. *Physical Review B*, **2009**, 79,	3.3	133
331	Electron transport in a two-dimensional electron gas with magnetic barriers. *Physical Review B*, **2000**, 62, 5074-5078	3.3	133
330	Electron counting in quantum dots. *Surface Science Reports*, **2009**, 64, 191-232	12.9	115
329	Analytic model of the energy spectrum of a graphene quantum dot in a perpendicular magnetic field. *Physical Review B*, **2008**, 78,	3.3	115
328	Transport through graphene quantum dots. *Reports on Progress in Physics*, **2012**, 75, 126502	14.4	114
327	Strong Coupling Cavity QED with Gate-Defined Double Quantum Dots Enabled by a High Impedance Resonator. *Physical Review X*, **2017**, 7,	9.1	112
326	Time-resolved detection of individual electrons in a quantum dot. *Applied Physics Letters*, **2004**, 85, 2005-2007	3.4	111
325	Spin states in graphene quantum dots. *Physical Review Letters*, **2010**, 105, 116801	7.4	108
324	Quantum capacitance and density of states of graphene. *Applied Physics Letters*, **2010**, 96, 152104	3.4	107

323	Resonant magnetotunneling through individual self-assembled InAs quantum dots. *Physical Review B*, **1996**, 54, 16401-16404	3.3	106
322	Electron-hole crossover in graphene quantum dots. *Physical Review Letters*, **2009**, 103, 046810	7.4	105
321	Coherent spin-photon coupling using a resonant exchange qubit. *Nature*, **2018**, 560, 179-184	50.4	101
320	Graphene single-electron transistors. *Materials Today*, **2010**, 13, 44-50	21.8	99
319	Charge detection in graphene quantum dots. *Applied Physics Letters*, **2008**, 93, 212102	3.4	99
318	Spatially resolved manipulation of single electrons in quantum dots using a scanned probe. *Physical Review Letters*, **2004**, 93, 216801	7.4	94
317	Counting statistics and super-Poissonian noise in a quantum dot: Time-resolved measurements of electron transport. *Physical Review B*, **2006**, 74,	3.3	89
316	A low-temperature dynamic mode scanning force microscope operating in high magnetic fields. *Review of Scientific Instruments*, **1999**, 70, 2765-2768	1.7	87
315	Conditional statistics of electron transport in interacting nanoscale conductors. *Nature Physics*, **2007**, 3, 243-247	16.2	85
314	Electronic properties of graphene nanostructures. *Journal of Physics Condensed Matter*, **2011**, 23, 243201	1.8	78
313	Transport through graphene double dots. *Applied Physics Letters*, **2009**, 94, 222107	3.4	76
312	Excitation spectrum of two correlated electrons in a lateral quantum dot with negligible Zeeman splitting. *Physical Review Letters*, **2006**, 96, 126806	7.4	75
311	Magnetic field symmetry and phase rigidity of the nonlinear conductance in a ring. *Physical Review Letters*, **2006**, 96, 126801	7.4	75
310	Irreversibility on the Level of Single-Electron Tunneling. *Physical Review X*, **2012**, 2,	9.1	73
309	Magnetic-field-dependent transmission phase of a double-dot system in a quantum ring. *Physical Review Letters*, **2004**, 93, 066802	7.4	73
308	Imaging localized states in graphene nanostructures. *Physical Review B*, **2010**, 82,	3.3	71
307	Operation characteristics of piezoelectric quartz tuning forks in high magnetic fields at liquid helium temperatures. *Review of Scientific Instruments*, **2000**, 71, 1695-1697	1.7	71
306	Transport Through a Network of Topological Channels in Twisted Bilayer Graphene. *Nano Letters*, **2018**, 18, 6725-6730	11.5	68

305	Measurements of higher-order noise correlations in a quantum dot with a finite bandwidth detector. *Physical Review B*, **2007**, 75,	3.3	67
304	The AharonovBohm effect in a side-gated graphene ring. *New Journal of Physics*, **2010**, 12, 043054	2.9	64
303	Suppression of weak antilocalization in InAs nanowires. *Physical Review B*, **2010**, 81,	3.3	64
302	Fabry-PFot interference in gapped bilayer graphene with broken anti-Klein tunneling. *Physical Review Letters*, **2014**, 113, 116601	7.4	63
301	Localized charge carriers in graphene nanodevices. *Applied Physics Reviews*, **2015**, 2, 031301	17.3	62
300	Magneto-transport controlled by Landau polariton states. *Nature Physics*, **2019**, 15, 186-190	16.2	61
299	Raman spectroscopy on etched graphene nanoribbons. *Journal of Applied Physics*, **2011**, 109, 073710	2.5	59
298	Phase coherence in the inelastic cotunneling regime. *Physical Review Letters*, **2006**, 96, 036804	7.4	58
297	Aharonov-Bohm oscillations in the presence of strong spin-orbit interactions. *Physical Review Letters*, **2007**, 99, 176803	7.4	58
296	Local gating of a graphene Hall bar by graphene side gates. *Physical Review B*, **2007**, 76,	3.3	58
295	Electrostatically Induced Quantum Point Contacts in Bilayer Graphene. *Nano Letters*, **2018**, 18, 553-559	11.5	57
294	Cotunneling-mediated transport through excited states in the Coulomb-blockade regime. *Physical Review Letters*, **2005**, 94, 206805	7.4	57
293	Observation of spin splitting in single InAs self-assembled quantum dots in AlAs. *Applied Physics Letters*, **1998**, 73, 354-356	3.4	57
292	Interactions and Magnetotransport through Spin-Valley Coupled Landau Levels in Monolayer MoS_{2}. *Physical Review Letters*, **2018**, 121, 247701	7.4	56
291	Transport in graphene nanostructures. *Frontiers of Physics*, **2011**, 6, 271-293	3.7	55
290	Strong spin-orbit interactions and weak antilocalization in carbon-doped p-type GaAsAlxGa1xAs heterostructures. *Physical Review B*, **2008**, 77,	3.3	54
289	Fano effect in a quantum-ringquantum-dot system with tunable coupling. *Physical Review B*, **2006**, 73,	3.3	53
288	Anomalous sequence of quantum Hall liquids revealing a tunable Lifshitz transition in bilayer graphene. *Physical Review Letters*, **2014**, 113, 116602	7.4	52

287	Observation of excited states in a graphene double quantum dot. *Europhysics Letters*, **2010**, 89, 67005	1.6	52
286	Spin and Valley States in Gate-Defined Bilayer Graphene Quantum Dots. *Physical Review X*, **2018**, 8,	9.1	51
285	Quantum dot admittance probed at microwave frequencies with an on-chip resonator. *Physical Review B*, **2012**, 86,	3.3	51
284	Single-electron double quantum dot dipole-coupled to a single photonic mode. *Physical Review B*, **2013**, 88,	3.3	51
283	Energy and transport gaps in etched graphene nanoribbons. *Semiconductor Science and Technology*, **2010**, 25, 034002	1.8	51
282	Electronic Quantum Transport in Mesoscopic Semiconductor Structures. *Springer Tracts in Modern Physics*, **2004**,	0.1	50
281	Microwave Emission from Hybridized States in a Semiconductor Charge Qubit. *Physical Review Letters*, **2015**, 115, 046802	7.4	49
280	Stability of spin states in quantum dots. *Physical Review B*, **2002**, 66,	3.3	49
279	Investigation of the AharonovBohm effect in a gated graphene ring. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 2756-2759	1.3	48
278	Time-resolved detection of single-electron interference. *Nano Letters*, **2008**, 8, 2547-50	11.5	46
277	Landau-level spectroscopy of a two-dimensional electron system by tunneling through a quantum dot. *Physical Review Letters*, **2000**, 84, 729-32	7.4	46
276	Gate-tunable quantum dot in a high quality single layer MoS2 van der Waals heterostructure. *Applied Physics Letters*, **2018**, 112, 123101	3.4	44
275	Insulating state and giant nonlocal response in an InAs/GaSb quantum well in the quantum Hall regime. *Physical Review Letters*, **2014**, 112, 036802	7.4	44
274	Transport properties of clean quantum point contacts. *New Journal of Physics*, **2011**, 13, 113006	2.9	44
273	Coherent probing of excited quantum dot states in an interferometer. *Physical Review Letters*, **2007**, 98, 036805	7.4	43
272	Nonlocal transport via edge states in InAs/GaSb coupled quantum wells. *Physical Review B*, **2015**, 92,	3.3	42
271	Time-resolved charge detection in graphene quantum dots. *Physical Review B*, **2011**, 83,	3.3	42
270	Experimental probe of topological orders and edge excitations in the second Landau level. *Physical Review B*, **2014**, 90,	3.3	41

269	Reactive-ion-etched graphene nanoribbons on a hexagonal boron nitride substrate. *Applied Physics Letters*, **2012**, 101, 203103	3.4	40
268	Interference in a quantum dot molecule embedded in a ring interferometer. *New Journal of Physics*, **2007**, 9, 111-111	2.9	40
267	Coupled Quantum Dots in Bilayer Graphene. *Nano Letters*, **2018**, 18, 5042-5048	11.5	39
266	Excited States in Bilayer Graphene Quantum Dots. *Physical Review Letters*, **2019**, 123, 026803	7.4	39
265	Measurement of the tip-induced potential in scanning gate experiments. *Physical Review B*, **2007**, 75,	3.3	38
264	Coherent electron-phonon coupling in tailored quantum systems. *Nature Communications*, **2011**, 2, 239	17.4	37
263	Statistical electron excitation in a double quantum dot induced by two independent quantum point contacts. *Physical Review B*, **2009**, 79,	3.3	37
262	Coexistence of weak localization and a metallic phase in Si/SiGe quantum wells. *Physical Review B*, **2000**, 61, R5082-R5085	3.3	37
261	Semiconductor Nanostructures **2009**,		37
260	Characterizing wave functions in graphene nanodevices: Electronic transport through ultrashort graphene constrictions on a boron nitride substrate. *Physical Review B*, **2014**, 90,	3.3	36
259	Coulomb gap in graphene nanoribbons. *Physical Review B*, **2011**, 84,	3.3	35
258	Singlet-triplet transition tuned by asymmetric gate voltages in a quantum ring. *Physical Review Letters*, **2003**, 91, 206802	7.4	34
257	Gate-Defined One-Dimensional Channel and Broken Symmetry States in MoS van der Waals Heterostructures. *Nano Letters*, **2017**, 17, 5008-5011	11.5	33
256	Force□distance studies with piezoelectric tuning forks below 4.2 K. *Applied Surface Science*, **2000**, 157, 290-294	6.7	33
255	Graphene quantum dots in perpendicular magnetic fields. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 2553-2557	1.3	32
254	Scanning gate microscopy in a viscous electron fluid. *Physical Review B*, **2018**, 98,	3.3	31
253	Anisotropy and Suppression of Spin-Orbit Interaction in a GaAs Double Quantum Dot. *Physical Review Letters*, **2017**, 119, 176807	7.4	30
252	Measurement Back-Action in Stacked Graphene Quantum Dots. *Nano Letters*, **2015**, 15, 6003-8	11.5	30

251	Quantum Hall effect transition in scanning gate experiments. *Physical Review B*, **2007**, 76,	3.3	30
250	Analysis of the metallic phase of two-dimensional holes in SiGe in terms of temperature dependent screening. *Physical Review Letters*, **2000**, 85, 4357-60	7.4	30
249	Quantum dots investigated with charge detection techniques. *Solid State Communications*, **2009**, 149, 1419-1426	1.6	29
248	Scanning gate microscopy on a graphene nanoribbon. *Applied Physics Letters*, **2012**, 101, 063101	3.4	29
247	Construction of a dilution refrigerator cooled scanning force microscope. *Review of Scientific Instruments*, **2007**, 78, 013704	1.7	29
246	Multiple layer local oxidation for fabricating semiconductor nanostructures. *Applied Physics Letters*, **2004**, 85, 3558-3560	3.4	29
245	Spin-orbit splitting and effective masses in p-type GaAs two-dimensional hole gases. *Physical Review B*, **2014**, 89,	3.3	27
244	Kondo effect in a many-electron quantum ring. *Physical Review Letters*, **2004**, 93, 176803	7.4	27
243	Tunable Valley Splitting due to Topological Orbital Magnetic Moment in Bilayer Graphene Quantum Point Contacts. *Physical Review Letters*, **2020**, 124, 126802	7.4	26
242	Suppression of bulk conductivity in InAs/GaSb broken gap composite quantum wells. *Applied Physics Letters*, **2013**, 103, 112102	3.4	26
241	Two-subband quantum Hall effect in parabolic quantum wells. *Physical Review B*, **2006**, 74,	3.3	26
240	Magnetotransport in C-doped AlGaAs heterostructures. *Applied Physics Letters*, **2004**, 85, 2277-2279	3.4	26
239	Spin-Orbit Coupling at the Level of a Single Electron. *Physical Review Letters*, **2016**, 116, 136803	7.4	25
238	Measuring the Degeneracy of Discrete Energy Levels Using a GaAs/AlGaAs Quantum Dot. *Physical Review Letters*, **2016**, 117, 206803	7.4	25
237	Gap Opening in Twisted Double Bilayer Graphene by Crystal Fields. *Nano Letters*, **2019**, 19, 8821-8828	11.5	24
236	Phase-coherent transport measured in a side-gated mesoscopic graphite wire. *Physical Review B*, **2007**, 75,	3.3	24
235	Classical Hall effect in scanning gate experiments. *Physical Review B*, **2006**, 74,	3.3	24
234	Multi-terminal transport through a quantum dot in the Coulomb-blockade regime. *Europhysics Letters*, **2004**, 67, 439-445	1.6	24

233	Electronic transport through a quantum dot network. *Physical Review B*, **2004**, 70,	3.3	24
232	Electronic properties of antidot lattices fabricated by atomic force lithography. *Applied Physics Letters*, **2002**, 80, 252-254	3.4	24
231	All-Microwave Control and Dispersive Readout of Gate-Defined Quantum Dot Qubits in Circuit Quantum Electrodynamics. *Physical Review Letters*, **2019**, 122, 206802	7.4	23
230	Imaging the Conductance of Integer and Fractional Quantum Hall Edge States. *Physical Review X*, **2014**, 4,	9.1	23
229	Quantum capacitance and density of states of graphene. *Physica Scripta*, **2012**, T146, 014009	2.6	23
228	Detecting terahertz current fluctuations in a quantum point contact using a nanowire quantum dot. *Physical Review B*, **2008**, 78,	3.3	23
227	Topologically Nontrivial Valley States in Bilayer Graphene Quantum Point Contacts. *Physical Review Letters*, **2018**, 121, 257702	7.4	23
226	Edge transport in InAs and InAs/GaSb quantum wells. *Physical Review B*, **2017**, 96,	3.3	22
225	Increasing the 5/2 gap energy: an analysis of MBE growth parameters. *New Journal of Physics*, **2014**, 16, 023014	2.9	22
224	Characterization of spin-orbit interactions of GaAs heavy holes using a quantum point contact. *Physical Review Letters*, **2014**, 113, 046801	7.4	22
223	Fast detection of single-charge tunneling to a graphene quantum dot in a multi-level regime. *Applied Physics Letters*, **2012**, 101, 012104	3.4	22
222	Comment on "Vacuum Rabi splitting in a semiconductor circuit QED system". *Physical Review Letters*, **2013**, 111, 249701	7.4	22
221	Gating of high-mobility two-dimensional electron gases in GaAs/AlGaAs heterostructures. *New Journal of Physics*, **2010**, 12, 043007	2.9	22
220	Experimental signatures of the inverted phase in InAs/GaSb coupled quantum wells. *Physical Review B*, **2016**, 94,	3.3	22
219	Floquet Spectroscopy of a Strongly Driven Quantum Dot Charge Qubit with a Microwave Resonator. *Physical Review Letters*, **2018**, 121, 043603	7.4	21
218	Scattering mechanisms of highest-mobility InAs/AlxGa1Sb quantum wells. *Physical Review B*, **2017**, 95,	3.3	21
217	Characterization of a microwave frequency resonator via a nearby quantum dot. *Applied Physics Letters*, **2011**, 98, 262105	3.4	21
216	An in situ tunable radio-frequency quantum point contact. *Applied Physics Letters*, **2010**, 97, 202104	3.4	21

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214	Discrete charging of traps visualized by scanning gate experiments on a quantum point contact. *Physical Review B*, **2007**, 75,	3.3	21
213	Local oxidation of Ga[Al]As heterostructures with modulated tip-sample voltages. *Journal of Applied Physics*, **2006**, 99, 053707	2.5	21
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209	Detecting single-electron tunneling involving virtual processes in real time. *Physical Review B*, **2008**, 78,	3.3	20
208	Transport Spectroscopy of a Spin-Coherent Dot-Cavity System. *Physical Review Letters*, **2015**, 115, 166603	7.4	19
207	Imaging the lateral shift of a quantum point contact using scanning gate microscopy. *Physical Review B*, **2011**, 84,	3.3	19
206	Single-electron effects in a coupled dot-ring system. *Physical Review B*, **2004**, 69,	3.3	19
205	Tunable Fermi surface topology and Lifshitz transition in bilayer graphene. *Synthetic Metals*, **2015**, 210, 19-31	3.6	18
204	Coherent microwave-photon-mediated coupling between a semiconductor and a superconducting qubit. *Nature Communications*, **2019**, 10, 3011	17.4	18
203	Counting statistics of hole transfer in a p-type GaAs quantum dot with dense excitation spectrum. *Physical Review B*, **2013**, 88,	3.3	18
202	Hot-hole effects in a dilute two-dimensional gas in SiGe. *Europhysics Letters*, **2003**, 61, 499-505	1.6	18
201	Spatially highly resolved study of AFM scanning tip□quantum dot local interaction. *New Journal of Physics*, **2005**, 7, 185-185	2.9	18
200	Field-induced real-space transfer in delta -doped GaAs. *Physical Review B*, **1993**, 47, 4485-4490	3.3	18
199	Limiting scattering processes in high-mobility InSb quantum wells grown on GaSb buffer systems. *Physical Review Materials*, **2018**, 2,	3.2	18
198	Evaluating charge noise acting on semiconductor quantum dots in the circuit quantum electrodynamics architecture. *Applied Physics Letters*, **2014**, 105, 063105	3.4	17

197	Electronic triple-dot transport through a bilayer graphene island with ultrasmall constrictions. *New Journal of Physics*, **2013**, 15, 083029	2.9	17
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194	Microwave Photon-Mediated Interactions between Semiconductor Qubits. *Physical Review X*, **2018**, 8,	9.1	17
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191	Interference of electrons in backscattering through a quantum point contact. *New Journal of Physics*, **2013**, 15, 013056	2.9	16
190	The relevance of electrostatics for scanning-gate microscopy. *New Journal of Physics*, **2011**, 13, 053013	2.9	16
189	Local spectroscopy of edge channels in the quantum Hall regime with local probe techniques. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 13, 671-674	3	16
188	Quantum physics in quantum rings. *Europhysics News*, **2005**, 36, 78-71	0.2	16
187	Variation of elastic scattering across a quantum well. *Physical Review B*, **1999**, 59, R5304-R5307	3.3	16
186	Correlated electron-hole state in twisted double-bilayer graphene. *Science*, **2021**, 373, 1257-1260	33.3	16
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183	Transport in a three-terminal graphene quantum dot in the multi-level regime. *New Journal of Physics*, **2012**, 14, 023052	2.9	15
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180	Counting statistics in an InAs nanowire quantum dot with a vertically coupled charge detector. *Applied Physics Letters*, **2012**, 100, 072110	3.4	15

179	Energy spectra of quantum rings. *Microelectronic Engineering*, **2002**, 63, 47-52	2.5	15
178	Automated Tuning of Double Quantum Dots into Specific Charge States Using Neural Networks. *Physical Review Applied*, **2020**, 13,	4.3	14
177	Equilibrium free energy measurement of a confined electron driven out of equilibrium. *Physical Review B*, **2016**, 93,	3.3	14
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175	Chemical modification of graphene characterized by Raman and transport experiments. *Nanoscale*, **2012**, 4, 3781-5	7.7	14
174	Origins of conductance anomalies in a p-type GaAs quantum point contact. *Physical Review B*, **2013**, 87,	3.3	14
173	Cyclic depopulation of edge states in a large quantum dot. *New Journal of Physics*, **2013**, 15, 023035	2.9	14
172	Transport through a strongly coupled graphene quantum dot in perpendicular magnetic field. *Nanoscale Research Letters*, **2011**, 6, 253	5	14
171	Local backscattering in the quantum Hall regime. *Physical Review B*, **2004**, 70,	3.3	14
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167	Virtual-photon-mediated spin-qubit-transmon coupling. *Nature Communications*, **2019**, 10, 5037	17.4	13
166	Generation and Detection of Spin Currents in Semiconductor Nanostructures with Strong Spin-Orbit Interaction. *Physical Review Letters*, **2015**, 114, 206601	7.4	13
165	Imaging magnetoelectric subbands in ballistic constrictions. *New Journal of Physics*, **2013**, 15, 083005	2.9	13
164	Observation of excited states in a p-type GaAs quantum dot. *Europhysics Letters*, **2008**, 84, 57004	1.6	13
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160	Tunable Valley Splitting and Bipolar Operation in Graphene Quantum Dots. *Nano Letters*, **2021**, 21, 1068-1073	11.7	13
159	Heat dissipation and fluctuations in a driven quantum dot. *Physica Status Solidi (B): Basic Research*, **2017**, 254, 1600546	1.3	12
158	Scanning-gate-induced effects and spatial mapping of a cavity. *New Journal of Physics*, **2015**, 17, 043043	2.9	12
157	Measuring the local quantum capacitance of graphene using a strongly coupled graphene nanoribbon. *Physical Review B*, **2015**, 91,	3.3	12
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149	Influence of etching processes on electronic transport in mesoscopic InAs/GaSb quantum well devices. *AIP Advances*, **2015**, 5, 077106	1.5	11
148	Finite-bias charge detection in a quantum dot. *Physical Review B*, **2005**, 72,	3.3	11
147	Analysis of the temperature-dependent quantum point contact conductance in relation to the metal-insulator transition in two dimensions. *Journal of Physics Condensed Matter*, **2001**, 13, 3831-3837	1.8	11
146	Quantum dots **2009**, 341-408		11
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