

Ian Farrer

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.

332
papers

7,194
citations

43
h-index

71
g-index

409
ext. papers

8,201
ext. citations

5.6
avg. IF

5.52
L-index

#	Paper	IF	Citations
332	Cooling low-dimensional electron systems into the microkelvin regime.. <i>Nature Communications</i> , 2022 , 13, 667	17.4	0
331	Electrically Controllable Kondo Correlation in Spin-Orbit-Coupled Quantum Point Contacts.. <i>Physical Review Letters</i> , 2022 , 128, 027701	7.4	1
330	Observing separate spin and charge Fermi seas in a strongly correlated one-dimensional conductor. <i>Science Advances</i> , 2022 , 8,	14.3	1
329	Exciton-polaritons in GaAs-based slab waveguide photonic crystals. <i>Applied Physics Letters</i> , 2021 , 119, 181101	3.4	1
328	Engineering electron wavefunctions in asymmetrically confined quasi one-dimensional structures. <i>Applied Physics Letters</i> , 2021 , 118, 124002	3.4	1
327	Microscopic metallic air-bridge arrays for connecting quantum devices. <i>Applied Physics Letters</i> , 2021 , 118, 162108	3.4	3
326	New signatures of the spin gap in quantum point contacts. <i>Nature Communications</i> , 2021 , 12, 5	17.4	4
325	Geometric Control of Universal Hydrodynamic Flow in a Two-Dimensional Electron Fluid. <i>Physical Review X</i> , 2021 , 11,	9.1	1
324	Suspended two-dimensional electron gases in In _{0.75} Ga _{0.25} As quantum wells. <i>Applied Physics Letters</i> , 2020 , 116, 232106	3.4	0
323	Sensitive radiofrequency readout of quantum dots using an ultra-low-noise SQUID amplifier. <i>Journal of Applied Physics</i> , 2020 , 127, 244503	2.5	6
322	A semiconductor topological photonic ring resonator. <i>Applied Physics Letters</i> , 2020 , 116, 061102	3.4	15
321	Single-photon emission from single-electron transport in a SAW-driven lateral light-emitting diode. <i>Nature Communications</i> , 2020 , 11, 917	17.4	13
320	Demonstration of electron focusing using electronic lenses in low-dimensional system. <i>Scientific Reports</i> , 2020 , 10, 2593	4.9	0
319	X-ray atomic mapping of quantum dots. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
318	Active reset of a radiative cascade for entangled-photon generation beyond the continuous-driving limit. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
317	Superconductivity in AuNiGe Ohmic contacts to a GaAs-based high mobility two-dimensional electron gas. <i>Applied Physics Letters</i> , 2020 , 117, 162104	3.4	2
316	Nonlinear spin filter for nonmagnetic materials at zero magnetic field. <i>Physical Review B</i> , 2020 , 102,	3.3	1

315	Photonic integration of uniform GaAs nanowires in hexagonal and honeycomb lattice for broadband optical absorption. <i>AIP Advances</i> , 2020 , 10, 105211	1.5	0
314	A tuneable telecom wavelength entangled light emitting diode deployed in an installed fibre network. <i>Communications Physics</i> , 2020 , 3,	5.4	13
313	Improving reproducibility of quantum devices with completely undoped architectures. <i>Applied Physics Letters</i> , 2020 , 117, 183101	3.4	4
312	Investigation of a novel AlZnN semiconductor alloy. <i>Materials Letters: X</i> , 2020 , 7, 100052	0.5	
311	Improved ambient stability of thermally annealed zinc nitride thin films. <i>AIP Advances</i> , 2020 , 10, 035018	1.5	3
310	Experimental Realization of a Quantum Dot Energy Harvester. <i>Physical Review Letters</i> , 2019 , 123, 117704	7.4	42
309	A Josephson relation for fractionally charged anyons. <i>Science</i> , 2019 , 363, 846-849	33.3	25
308	A quantum dot as a source of time-bin entangled multi-photon states. <i>Quantum Science and Technology</i> , 2019 , 4, 025011	5.5	6
307	Photon Phase Shift at the Few-Photon Level and Optical Switching by a Quantum Dot in a Microcavity. <i>Physical Review Applied</i> , 2019 , 11,	4.3	6
306	Orientation of hole quantum Hall nematic phases in an out-of-plane electric field. <i>Physical Review B</i> , 2019 , 99,	3.3	1
305	Zero-Magnetic Field Fractional Quantum States. <i>Physical Review Letters</i> , 2019 , 122, 086803	7.4	10
304	Long-term transmission of entangled photons from a single quantum dot over deployed fiber. <i>Scientific Reports</i> , 2019 , 9, 4111	4.9	13
303	Scalable Quantum Integrated Circuits on Superconducting Two-Dimensional Electron Gas Platform. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	1
302	Andreev reflections and magnetotransport in 2D Josephson junctions. <i>Journal of Physics: Conference Series</i> , 2019 , 1182, 012010	0.3	1
301	Momentum-dependent power law measured in an interacting quantum wire beyond the Luttinger limit. <i>Nature Communications</i> , 2019 , 10, 2821	17.4	9
300	Formation of a non-magnetic, odd-denominator fractional quantized conductance in a quasi-one-dimensional electron system. <i>Applied Physics Letters</i> , 2019 , 115, 123104	3.4	3
299	Thermoelectric property of a one dimensional channel in the presence of a transverse magnetic field. <i>Applied Physics Letters</i> , 2019 , 115, 202102	3.4	1
298	Amplification of nonlinear polariton pulses in waveguides. <i>Optics Express</i> , 2019 , 27, 10692-10704	3.3	1

297	Continuous-variable tomography of solitary electrons. <i>Nature Communications</i> , 2019 , 10, 5298	17.4	13
296	Quantized charge transport driven by a surface acoustic wave in induced unipolar and bipolar junctions. <i>Physical Review B</i> , 2019 , 100,	3.3	6
295	Spatiotemporal continuum generation in polariton waveguides. <i>Light: Science and Applications</i> , 2019 , 8, 6	16.7	7
294	Conductance quantisation in patterned gate InGaAs structures up to $6 \pi(2e/h)$. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 104002	1.8	
293	High mobility InGaAs quantum wells in an InAs phonon lattice. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 105705	1.8	1
292	Cavity assisted spin reconfiguration in a quantum wire. <i>Journal of Physics: Conference Series</i> , 2018 , 964, 012003	0.3	
291	Multi-dimensional photonic states from a quantum dot. <i>Quantum Science and Technology</i> , 2018 , 3, 0240035	3.5	8
290	Engineering the spin polarization of one-dimensional electrons. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 08LT01	1.8	8
289	Coherent Spin Amplification Using a Beam Splitter. <i>Physical Review Letters</i> , 2018 , 120, 137701	7.4	6
288	On-chip Hybrid Superconducting-Semiconducting Quantum Circuit. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-4	1.8	2
287	Structure and magnetic properties of an epitaxial Fe(110)/MgO(111)/GaN(0001) heterostructure. <i>Journal of Applied Physics</i> , 2018 , 123, 103901	2.5	
286	Proximity induced superconductivity in indium gallium arsenide quantum wells. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 459, 282-284	2.8	9
285	Formation of a macroscopically occupied polariton state in a tunable open-access microcavity under resonant excitation. <i>Journal of Applied Physics</i> , 2018 , 124, 025703	2.5	3
284	Electrical Control of the Zeeman Spin Splitting in Two-Dimensional Hole Systems. <i>Physical Review Letters</i> , 2018 , 121, 077701	7.4	14
283	Design and fabrication of InAs/GaAs QD based intermediate band solar cells by quantum engineering 2018 ,		3
282	LO-Phonon Emission Rate of Hot Electrons from an On-Demand Single-Electron Source in a GaAs/AlGaAs Heterostructure. <i>Physical Review Letters</i> , 2018 , 121, 137703	7.4	14
281	Direct observation of spin polarization in GaAs quantum wires by transverse electron focusing. <i>Journal of Physics: Conference Series</i> , 2018 , 964, 012002	0.3	2
280	Imaging the Zigzag Wigner Crystal in Confinement-Tunable Quantum Wires. <i>Physical Review Letters</i> , 2018 , 121, 106801	7.4	15

279	Magnetoresistance in an electronic cavity coupled to one-dimensional systems. <i>Applied Physics Letters</i> , 2018 , 113, 112101	3.4	0
278	Correlating Photoluminescence and Structural Properties of Uncapped and GaAs-Capped Epitaxial InGaAs Quantum Dots. <i>Scientific Reports</i> , 2018 , 8, 7514	4.9	6
277	Experimental verification of electrostatic boundary conditions in gate-patterned quantum devices. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 244004	3	4
276	Controllable Photonic Time-Bin Qubits from a Quantum Dot. <i>Physical Review X</i> , 2018 , 8,	9.1	6
275	Structural and magnetic properties of ultra-thin Fe films on metal-organic chemical vapour deposited GaN(0001). <i>Journal of Applied Physics</i> , 2017 , 121, 043904	2.5	5
274	A complete laboratory for transport studies of electron-hole interactions in GaAs/AlGaAs ambipolar bilayers. <i>Applied Physics Letters</i> , 2017 , 110, 072105	3.4	9
273	Electrically driven and electrically tunable quantum light sources. <i>Applied Physics Letters</i> , 2017 , 110, 071102	3.02	18
272	Reappearance of linear hole transport in an ambipolar undoped GaAs/AlGaAs quantum well. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 185302	1.8	
271	Fano resonance in a cavity-reflector hybrid system. <i>Physical Review B</i> , 2017 , 95,	3.3	9
270	Quantum Engineering of InAs/GaAs Quantum Dot Based Intermediate Band Solar Cells. <i>ACS Photonics</i> , 2017 , 4, 2745-2750	6.3	43
269	Temperature Dependence of Spin-Split Peaks in Transverse Electron Focusing. <i>Nanoscale Research Letters</i> , 2017 , 12, 553	5	8
268	Interference Effects in a Tunable Quantum Point Contact Integrated with an Electronic Cavity. <i>Physical Review Applied</i> , 2017 , 8,	4.3	5
267	Ultrafast voltage sampling using single-electron wavepackets. <i>Applied Physics Letters</i> , 2017 , 110, 102105	3.4	19
266	Dark Solitons in High Velocity Waveguide Polariton Fluids. <i>Physical Review Letters</i> , 2017 , 119, 097403	7.4	47
265	Temperature dependence of the band gap of zinc nitride observed in photoluminescence measurements. <i>Applied Physics Letters</i> , 2017 , 111, 122105	3.4	6
264	Mechanisms for Strong Anisotropy of In-Plane g-Factors in Hole Based Quantum Point Contacts. <i>Physical Review Letters</i> , 2017 , 119, 116803	7.4	12
263	Controlled spatial separation of spins and coherent dynamics in spin-orbit-coupled nanostructures. <i>Nature Communications</i> , 2017 , 8, 15997	17.4	15
262	Universal Growth Scheme for Quantum Dots with Low Fine-Structure Splitting at Various Emission Wavelengths. <i>Physical Review Applied</i> , 2017 , 8,	4.3	37

261	Quantum-Dot-Based Telecommunication-Wavelength Quantum Relay. <i>Physical Review Applied</i> , 2017 , 8,	4.3	22
260	Direct observation of exchange-driven spin interactions in one-dimensional system. <i>Applied Physics Letters</i> , 2017 , 111, 042107	3.4	9
259	On-Chip Andreev Devices: Hard Superconducting Gap and Quantum Transport in Ballistic Nb-In Ga As-Quantum-Well-Nb Josephson Junctions. <i>Advanced Materials</i> , 2017 , 29, 1701836	24	11
258	Strain Balancing of Metal-Organic Vapour Phase Epitaxy InAs/GaAs Quantum Dot Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-8	3.8	4
257	Surface acoustic wave modulation of a coherently driven quantum dot in a pillar microcavity. <i>Applied Physics Letters</i> , 2017 , 111, 011103	3.4	20
256	Telecom-Wavelength Quantum Relay Using a Semiconductor Quantum Dot 2017 ,		3
255	Sensitive Radio-Frequency Measurements of a Quantum Dot by Tuning to Perfect Impedance Matching. <i>Physical Review Applied</i> , 2016 , 5,	4.3	35
254	Effect of Split Gate Size on the Electrostatic Potential and 0.7 Anomaly within Quantum Wires on a Modulation-Doped GaAs/AlGaAs Heterostructure. <i>Physical Review Applied</i> , 2016 , 5,	4.3	4
253	Nature of the many-body excitations in a quantum wire: Theory and experiment. <i>Physical Review B</i> , 2016 , 93,	3.3	11
252	Ramsey interference in a multilevel quantum system. <i>Physical Review B</i> , 2016 , 93,	3.3	3
251	Thermal dissociation of free and acceptor-bound positive trions from magnetophotoluminescence studies of high quality GaAs/AlxGa1-xAs quantum wells. <i>Physical Review B</i> , 2016 , 93,	3.3	1
250	A semiconductor photon-sorter. <i>Nature Nanotechnology</i> , 2016 , 11, 857-860	28.7	22
249	Time-of-Flight Measurements of Single-Electron Wave Packets in Quantum Hall Edge States. <i>Physical Review Letters</i> , 2016 , 116, 126803	7.4	44
248	Double-layer-gate architecture for few-hole GaAs quantum dots. <i>Nanotechnology</i> , 2016 , 27, 334001	3.4	4
247	Nonlinear spectra of spinons and holons in short GaAs quantum wires. <i>Nature Communications</i> , 2016 , 7, 12784	17.4	14
246	Few-second-long correlation times in a quantum dot nuclear spin bath probed by frequency-comb nuclear magnetic resonance spectroscopy. <i>Nature Physics</i> , 2016 , 12, 688-693	16.2	12
245	Tunable Nanopatterning of Conductive Polymers via Electrohydrodynamic Lithography. <i>ACS Nano</i> , 2016 , 10, 3865-70	16.7	31
244	Non-invasive charge detection in surface-acoustic-wave-defined dynamic quantum dots. <i>Applied Physics Letters</i> , 2016 , 109, 183501	3.4	

243	N-type ohmic contacts to undoped GaAs/AlGaAs quantum wells using only front-sided processing: application to ambipolar FETs. <i>Semiconductor Science and Technology</i> , 2016 , 31, 065013	1.8	7
242	Anisotropic Pauli Spin Blockade of Holes in a GaAs Double Quantum Dot. <i>Nano Letters</i> , 2016 , 16, 7685-7689	3.0	30
241	Structural, electrical, and optical characterization of as grown and oxidized zinc nitride thin films. <i>Journal of Applied Physics</i> , 2016 , 120, 205102	2.5	22
240	Switching between attractive and repulsive Coulomb-interaction-mediated drag in an ambipolar GaAs/AlGaAs bilayer device. <i>Applied Physics Letters</i> , 2016 , 108, 062102	3.4	12
239	Enhanced indistinguishability of in-plane single photons by resonance fluorescence on an integrated quantum dot. <i>Applied Physics Letters</i> , 2016 , 109, 151112	3.4	14
238	High-resolution error detection in the capture process of a single-electron pump. <i>Applied Physics Letters</i> , 2016 , 108, 023502	3.4	12
237	Resonance fluorescence from a telecom-wavelength quantum dot. <i>Applied Physics Letters</i> , 2016 , 109, 163104	3.4	14
236	Spin-Dependent Transport in Fe/GaAs(100)/Fe Vertical Spin-Valves. <i>Scientific Reports</i> , 2016 , 6, 29845	4.9	10
235	Cavity-enhanced coherent light scattering from a quantum dot. <i>Science Advances</i> , 2016 , 2, e1501256	14.3	38
234	An entangled-LED-driven quantum relay over 1 km. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	28
233	InGaAs spin light emitting diodes measured in the Faraday and oblique Hanle geometries. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 165103	3	3
232	Valence band offsets of ScxGa1-xN/AlN and ScxGa1-xN/GaN heterojunctions. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 265110	3	6
231	Composition measurement of epitaxial ScxGa1-xN films. <i>Semiconductor Science and Technology</i> , 2016 , 31, 064002	1.8	3
230	Hierarchy of modes in an interacting one-dimensional system. <i>Physical Review Letters</i> , 2015 , 114, 196401	7.4	15
229	Harvesting dissipated energy with a mesoscopic ratchet. <i>Nature Communications</i> , 2015 , 6, 6738	17.4	91
228	Ultra-low-power hybrid light-matter solitons. <i>Nature Communications</i> , 2015 , 6, 8317	17.4	62
227	All-electric all-semiconductor spin field-effect transistors. <i>Nature Nanotechnology</i> , 2015 , 10, 35-9	28.7	206
226	Polarization-correlated photons from a positively charged quantum dot. <i>Physical Review B</i> , 2015 , 92,	3.3	2

225	Measurement and control of electron wave packets from a single-electron source. <i>Physical Review B</i> , 2015 , 92,	3.3	31
224	Quantum key distribution with an entangled light emitting diode. <i>Applied Physics Letters</i> , 2015 , 107, 261101	3.4	8
223	Quantum photonics hybrid integration platform. <i>Applied Physics Letters</i> , 2015 , 107, 171108	3.4	35
222	Determining energy relaxation length scales in two-dimensional electron gases. <i>Applied Physics Letters</i> , 2015 , 107, 022104	3.4	4
221	Tunable polaritonic molecules in an open microcavity system. <i>Applied Physics Letters</i> , 2015 , 107, 201106	3.4	18
220	Density dependent composition of InAs quantum dots extracted from grazing incidence x-ray diffraction measurements. <i>Scientific Reports</i> , 2015 , 5, 15732	4.9	3
219	Interference with a quantum dot single-photon source and a laser at telecom wavelength. <i>Applied Physics Letters</i> , 2015 , 107, 131106	3.4	9
218	Multiplexed charge-locking device for large arrays of quantum devices. <i>Applied Physics Letters</i> , 2015 , 107, 143501	3.4	27
217	Transverse magnetic focussing of heavy holes in a (100) GaAs quantum well. <i>Semiconductor Science and Technology</i> , 2015 , 30, 102001	1.8	1
216	The effect of metal-rich growth conditions on the microstructure of ScxGa1-xN films grown using molecular beam epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 2837-2842	1.6	12
215	Assisted extraction of the energy level spacings and lever arms in direct current bias measurements of one-dimensional quantum wires, using an image recognition routine. <i>Journal of Applied Physics</i> , 2015 , 117, 015704	2.5	4
214	Band gaps of wurtzite ScxGa1-xN alloys. <i>Applied Physics Letters</i> , 2015 , 106, 132103	3.4	13
213	Growth variations and scattering mechanisms in metamorphic In0.75Ga0.25As/In0.75Al0.25As quantum wells grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2015 , 425, 70-75	1.6	16
212	Hybrid architecture for shallow accumulation mode AlGaAs/GaAs heterostructures with epitaxial gates. <i>Applied Physics Letters</i> , 2015 , 106, 012105	3.4	7
211	Detecting noise with shot noise using on-chip photon detector. <i>Nature Communications</i> , 2015 , 6, 6130	17.4	3
210	Coherent dynamics of a telecom-wavelength entangled photon source. <i>Nature Communications</i> , 2014 , 5, 3316	17.4	53
209	Many-body effects in a quasi-one-dimensional electron gas. <i>Physical Review B</i> , 2014 , 90,	3.3	31
208	Energy-Tunable Quantum Dot with Minimal Fine Structure Created by Using Simultaneous Electric and Magnetic Fields. <i>Physical Review Applied</i> , 2014 , 1,	4.3	16

207	Analysis of InAs/GaAs quantum dot solar cells using Suns- V_{oc} measurements. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 241-245	6.4	33
206	Electric control of the spin Hall effect by intervalley transitions. <i>Nature Materials</i> , 2014 , 13, 932-7	27	38
205	2014 ,		1
204	Ultrafast electrical control of a resonantly driven single photon source. <i>Applied Physics Letters</i> , 2014 , 105, 051112	3.4	6
203	High magnetic field studies of charged exciton localization in GaAs/Al _x Ga _{1-x} As quantum wells. <i>Applied Physics Letters</i> , 2014 , 105, 112104	3.4	3
202	On-chip generation and guiding of quantum light from a site-controlled quantum dot. <i>Applied Physics Letters</i> , 2014 , 104, 101108	3.4	16
201	Quantized escape and formation of edge channels at high Landau levels and edge transport mediated zero-differential resistance states. <i>Physical Review B</i> , 2014 , 90,	3.3	6
200	In-plane emission of indistinguishable photons generated by an integrated quantum emitter. <i>Applied Physics Letters</i> , 2014 , 104, 221109	3.4	8
199	Magnetic focusing with quantum point contacts in the non-equilibrium transport regime. <i>Applied Physics Letters</i> , 2013 , 103, 093503	3.4	3
198	Electrical control of the exciton fine structure of a quantum dot molecule. <i>Physical Review Letters</i> , 2013 , 110, 016804	7.4	29
197	Clock-controlled emission of single-electron wave packets in a solid-state circuit. <i>Physical Review Letters</i> , 2013 , 111, 216807	7.4	88
196	Quantum teleportation of laser-generated photons with an entangled-light-emitting diode. <i>Nature Communications</i> , 2013 , 4, 2859	17.4	24
195	A quantum dot single photon source driven by resonant electrical injection. <i>Applied Physics Letters</i> , 2013 , 103, 162108	3.4	13
194	Strong coupling at room temperature in ultracompact flexible metallic microcavities. <i>Applied Physics Letters</i> , 2013 , 102, 011118	3.4	2
193	Quantum teleportation using a light-emitting diode. <i>Nature Photonics</i> , 2013 , 7, 311-315	33.9	68
192	Exciton polaritons in semiconductor waveguides. <i>Applied Physics Letters</i> , 2013 , 102, 012109	3.4	40
191	Demonstration and characterization of an ambipolar high mobility transistor in an undoped GaAs/AlGaAs quantum well. <i>Applied Physics Letters</i> , 2013 , 102, 082105	3.4	12
190	Voltage tunability of single-spin states in a quantum dot. <i>Nature Communications</i> , 2013 , 4, 1522	17.4	36

189	Engineering quantum dots for electrical control of the fine structure splitting. <i>Applied Physics Letters</i> , 2013 , 103, 031105	3.4	4
188	Investigation of Quantum Dot Solar Cell Device Performance. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1551, 137-142		
187	Voltage control of electron-nuclear spin correlation time in a single quantum dot. <i>Physical Review B</i> , 2013 , 88,	3.3	9
186	A non-invasive electron thermometer based on charge sensing of a quantum dot. <i>Applied Physics Letters</i> , 2013 , 103, 133116	3.4	19
185	Rectification in mesoscopic alternating current-gated semiconductor devices. <i>Journal of Applied Physics</i> , 2013 , 114, 164505	2.5	12
184	Ultra-shallow quantum dots in an undoped GaAs/AlGaAs two-dimensional electron gas. <i>Applied Physics Letters</i> , 2013 , 102, 103507	3.4	14
183	Charge conversion of nearly free and impurity bound magneto-trions immersed in 2D electron or hole gas with optically tunable concentration. <i>Journal of Physics: Conference Series</i> , 2013 , 456, 012017	0.3	
182	Generation of 200 fs pulses with a short microcavity VECSEL 2013 ,		1
181	All-electrical injection and detection of a spin-polarized current using 1D conductors. <i>Physical Review Letters</i> , 2012 , 109, 177202	7.4	22
180	Extreme sensitivity of the spin-splitting and 0.7 anomaly to confining potential in one-dimensional nanoelectronic devices. <i>Nano Letters</i> , 2012 , 12, 4495-502	11.5	18
179	Impact of small-angle scattering on ballistic transport in quantum dots. <i>Physical Review Letters</i> , 2012 , 108, 196807	7.4	24
178	Towards a quantum representation of the ampere using single electron pumps. <i>Nature Communications</i> , 2012 , 3, 930	17.4	160
177	Controlled-NOT gate operating with single photons. <i>Applied Physics Letters</i> , 2012 , 100, 211103	3.4	49
176	A wavelength tunable 2-ps pulse VECSEL 2012 ,		3
175	Linear non-hysteretic gating of a very high density 2DEG in an undoped metal-semiconductor-metal sandwich structure. <i>Semiconductor Science and Technology</i> , 2012 , 27, 115006	1.8	2
174	175 GHz, 400-fs-pulse harmonically mode-locked surface emitting semiconductor laser. <i>Optics Express</i> , 2012 , 20, 7040-5	3.3	25
173	In-plane single-photon emission from a L3 cavity coupled to a photonic crystal waveguide. <i>Optics Express</i> , 2012 , 20, 28614-24	3.3	21
172	Enhancement of edge channel transport by a low-frequency irradiation. <i>Physical Review B</i> , 2012 , 86,	3.3	9

171	Indistinguishable entangled photons generated by a light-emitting diode. <i>Physical Review Letters</i> , 2012 , 108, 040503	7.4	52
170	Colossal nonsaturating linear magnetoresistance in two-dimensional electron systems at a GaAs/(Al,Ga)As heterointerface. <i>Physical Review B</i> , 2012 , 86,	3.3	11
169	Transport through an electrostatically defined quantum dot lattice in a two-dimensional electron gas. <i>Physical Review B</i> , 2012 , 85,	3.3	20
168	Probing the sensitivity of electron wave interference to disorder-induced scattering in solid-state devices. <i>Physical Review B</i> , 2012 , 85,	3.3	6
167	Disorder and Interaction Effects in Quantum Wires. <i>Journal of Physics: Conference Series</i> , 2012 , 376, 012018	3.3	8
166	Spiking computation and stochastic amplification in a neuron-like semiconductor microstructure. <i>Journal of Applied Physics</i> , 2011 , 109, 102408	2.5	9
165	On-demand single-electron transfer between distant quantum dots. <i>Nature</i> , 2011 , 477, 439-42	50.4	208
164	Free induction decay of a superposition stored in a quantum dot. <i>Physical Review B</i> , 2011 , 84,	3.3	5
163	Ultra-shallow undoped 2DEGs in GaAs-AlGaAs heterostructures 2011 ,		1
162	Experimental Progress towards Probing the Ground State of an Electron-Hole Bilayer by Low-Temperature Transport. <i>Advances in Condensed Matter Physics</i> , 2011 , 2011, 1-22	1	17
161	169 GHz repetition rate passively harmonically mode-locked VECSEL emitting 265 fs pulses 2011 ,		2
160	Entangled-Photon Pair Emission from a Light-Emitting Diode. <i>Journal of Physics: Conference Series</i> , 2011 , 286, 012022	0.3	
159	Narrow emission linewidths of positioned InAs quantum dots grown on pre-patterned GaAs(100) substrates. <i>Nanotechnology</i> , 2011 , 22, 065302	3.4	48
158	Evidence of gate-tunable topological excitations in two-dimensional electron systems. <i>Physical Review B</i> , 2011 , 83,	3.3	10
157	Exciton-spin memory with a semiconductor quantum dot molecule. <i>Physical Review Letters</i> , 2011 , 106, 216802	7.4	41
156	Compressibility measurements of quasi-one-dimensional quantum wires. <i>Physical Review Letters</i> , 2011 , 107, 126801	7.4	10
155	Spin current depolarization under high electric fields in undoped InGaAs. <i>Applied Physics Letters</i> , 2011 , 98, 242104	3.4	8
154	On-chip single photon emission from an integrated semiconductor quantum dot into a photonic crystal waveguide. <i>Applied Physics Letters</i> , 2011 , 99, 261108	3.4	68

153	Signatures of an anomalous Nernst effect in a mesoscopic two-dimensional electron system. <i>Physical Review B</i> , 2011 , 83,	3.3	10
152	Tunable nonadiabatic excitation in a single-electron quantum dot. <i>Physical Review Letters</i> , 2011 , 106, 126801	7.4	56
151	Tuneable polaritonics at room temperature with strongly coupled Tamm plasmon polaritons in metal/air-gap microcavities. <i>Applied Physics Letters</i> , 2011 , 98, 231105	3.4	41
150	High peak power femtosecond pulse VECSELS for terahertz time domain spectroscopy 2011 ,		2
149	Observation of anticrossings in the exciton state of single quantum dots via electrical tuning of the fine-structure splitting. <i>Journal of Physics: Conference Series</i> , 2011 , 286, 012026	0.3	
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