

# Ian Farrer

## List of Publications by Year in descending order

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402  
papers

8,852  
citations

46918

47  
h-index

62479

80  
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409  
all docs

409  
docs citations

409  
times ranked

7010  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale wafer patterning using SPM induced local anodic oxidation in InP substrates. Semiconductor Science and Technology, 2022, 37, 025001.	1.0	2
2	Electrically Controllable Kondo Correlation in Spin-Orbit-Coupled Quantum Point Contacts. Physical Review Letters, 2022, 128, 027701.	2.9	8
3	Effects of biased and unbiased illuminations on two-dimensional electron gases in dopant-free GaAs/AlGaAs. Physical Review B, 2022, 105, .	1.1	2
4	Cooling low-dimensional electron systems into the microkelvin regime. Nature Communications, 2022, 13, 667.	5.8	7
5	Gate voltage dependent Rashba spin splitting in hole transverse magnetic focusing. Physical Review B, 2022, 105, .	1.1	6
6	Observing separate spin and charge Fermi seas in a strongly correlated one-dimensional conductor. Science Advances, 2022, 8, .	4.7	4
7	New signatures of the spin gap in quantum point contacts. Nature Communications, 2021, 12, 5.	5.8	6
8	Engineering electron wavefunctions in asymmetrically confined quasi one-dimensional structures. Applied Physics Letters, 2021, 118, .	1.5	6
9	Microscopic metallic air-bridge arrays for connecting quantum devices. Applied Physics Letters, 2021, 118, .	1.5	7
10	Geometric Control of Universal Hydrodynamic Flow in a Two-Dimensional Electron Fluid. Physical Review X, 2021, 11, .	2.8	29
11	Excitonâ€ polaritons in GaAs-based slab waveguide photonic crystals. Applied Physics Letters, 2021, 119, 181101.	1.5	3
12	Quantum Light Emitting Diodes and their Applications. , 2021, , .		0
13	Directly Comparing the Current from Two Electron Pumps. , 2020, , .		1
14	Hall resistance anomalies in the integer and fractional quantum Hall regime. Physical Review B, 2020, 102, .	1.1	2
15	Superconductivity in AuNiGe Ohmic contacts to a GaAs-based high mobility two-dimensional electron gas. Applied Physics Letters, 2020, 117, 162104.	1.5	3
16	Nonlinear spin filter for nonmagnetic materials at zero magnetic field. Physical Review B, 2020, 102, .	1.1	2
17	Photonic integration of uniform GaAs nanowires in hexagonal and honeycomb lattice for broadband optical absorption. AIP Advances, 2020, 10, .	0.6	2
18	A tuneable telecom wavelength entangled light emitting diode deployed in an installed fibre network. Communications Physics, 2020, 3, .	2.0	20

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19	Improving reproducibility of quantum devices with completely undoped architectures. Applied Physics Letters, 2020, 117, .	1.5	5
20	Investigation of a novel AlZnN semiconductor alloy. Materials Letters: X, 2020, 7, 100052.	0.3	0
21	Improved ambient stability of thermally annealed zinc nitride thin films. AIP Advances, 2020, 10, 035018.	0.6	5
22	Suspended two-dimensional electron gases in In <sub>0.75</sub> Ga <sub>0.25</sub> As quantum wells. Applied Physics Letters, 2020, 116, 232106.	1.5	1
23	Sensitive radiofrequency readout of quantum dots using an ultra-low-noise SQUID amplifier. Journal of Applied Physics, 2020, 127, .	1.1	15
24	A semiconductor topological photonic ring resonator. Applied Physics Letters, 2020, 116, .	1.5	34
25	Single-photon emission from single-electron transport in a SAW-driven lateral light-emitting diode. Nature Communications, 2020, 11, 917.	5.8	28
26	Demonstration of electron focusing using electronic lenses in low-dimensional system. Scientific Reports, 2020, 10, 2593.	1.6	4
27	X-ray atomic mapping of quantum dots. Physical Review Materials, 2020, 4, .	0.9	3
28	Active reset of a radiative cascade for entangled-photon generation beyond the continuous-driving limit. Physical Review Research, 2020, 2, .	1.3	5
29	Operation of semiconductor telecom entangled photon sources over installed fiber networks. , 2020, , .		0
30	Scalable Quantum Integrated Circuits on Superconducting Two-Dimensional Electron Gas Platform. Journal of Visualized Experiments, 2019, , .	0.2	2
31	Andreev reflections and magnetotransport in 2D Josephson junctions. Journal of Physics: Conference Series, 2019, 1182, 012010.	0.3	0
32	Momentum-dependent power law measured in an interacting quantum wire beyond the Luttinger limit. Nature Communications, 2019, 10, 2821.	5.8	13
33	Formation of a non-magnetic, odd-denominator fractional quantized conductance in a quasi-one-dimensional electron system. Applied Physics Letters, 2019, 115, 123104.	1.5	5
34	Thermoelectric property of a one dimensional channel in the presence of a transverse magnetic field. Applied Physics Letters, 2019, 115, 202102.	1.5	1
35	Experimental Realization of a Quantum Dot Energy Harvester. Physical Review Letters, 2019, 123, 117701.	2.9	69
36	A Josephson relation for fractionally charged anyons. Science, 2019, 363, 846-849.	6.0	40

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37	A quantum dot as a source of time-bin entangled multi-photon states. Quantum Science and Technology, 2019, 4, 025011.	2.6	22
38	Photon Phase Shift at the Few-Photon Level and Optical Switching by a Quantum Dot in a Microcavity. Physical Review Applied, 2019, 11, .	1.5	12
39	Orientation of hole quantum Hall nematic phases in an out-of-plane electric field. Physical Review B, 2019, 99, .	1.1	3
40	Zero-Magnetic Field Fractional Quantum States. Physical Review Letters, 2019, 122, 086803.	2.9	20
41	Long-term transmission of entangled photons from a single quantum dot over deployed fiber. Scientific Reports, 2019, 9, 4111.	1.6	18
42	Continuous-variable tomography of solitary electrons. Nature Communications, 2019, 10, 5298.	5.8	29
43	Quantized charge transport driven by a surface acoustic wave in induced unipolar and bipolar junctions. Physical Review B, 2019, 100, .	1.1	10
44	Spatiotemporal continuum generation in polariton waveguides. Light: Science and Applications, 2019, 8, 6.	7.7	16
45	Conductance quantisation in patterned gate In <sub>0.75</sub> Ga <sub>0.25</sub> As structures up to $6\pi^2 e^2/h$ . Journal of Physics Condensed Matter, 2019, 31, 104002.	0.7	1
46	Amplification of nonlinear polariton pulses in waveguides. Optics Express, 2019, 27, 10692.	1.7	2
47	Entangled photon transmission from a quantum dot over loop-back fiber in Cambridge network. , 2019, , .		0
48	High mobility In <sub>0.75</sub> Ga <sub>0.25</sub> As quantum wells in an InAs phonon lattice. Journal of Physics Condensed Matter, 2018, 30, 105705.	0.7	1
49	Cavity assisted spin reconfiguration in a quantum wire. Journal of Physics: Conference Series, 2018, 964, 012003.	0.3	0
50	Multi-dimensional photonic states from a quantum dot. Quantum Science and Technology, 2018, 3, 024008.	2.6	11
51	Engineering the spin polarization of one-dimensional electrons. Journal of Physics Condensed Matter, 2018, 30, 08LT01.	0.7	10
52	Coherent Spin Amplification Using a Beam Splitter. Physical Review Letters, 2018, 120, 137701.	2.9	6
53	On-chip Hybrid Superconducting-Semiconducting Quantum Circuit. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.1	7
54	Structure and magnetic properties of an epitaxial Fe(110)/MgO(111)/GaN(0001) heterostructure. Journal of Applied Physics, 2018, 123, .	1.1	1

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55	Proximity induced superconductivity in indium gallium arsenide quantum wells. Journal of Magnetism and Magnetic Materials, 2018, 459, 282-284.	1.0	11
56	Single-Hot-Electron Wave Packets for Quantum Electrical Metrology. , 2018, , .		0
57	Design and fabrication of InAs/GaAs QD based intermediate band solar cells by quantum engineering. , 2018, , .		3
58	LO-Phonon Emission Rate of Hot Electrons from an On-Demand Single-Electron Source in a GaAs/AlGaAs Heterostructure. Physical Review Letters, 2018, 121, 137703.	2.9	27
59	Direct observation of spin polarization in GaAs quantum wires by transverse electron focusing. Journal of Physics: Conference Series, 2018, 964, 012002.	0.3	5
60	Imaging the Zigzag Wigner Crystal in Confinement-Tunable Quantum Wires. Physical Review Letters, 2018, 121, 106801.	2.9	20
61	Magnetoresistance in an electronic cavity coupled to one-dimensional systems. Applied Physics Letters, 2018, 113, 112101.	1.5	2
62	Correlating Photoluminescence and Structural Properties of Uncapped and GaAs-Capped Epitaxial InGaAs Quantum Dots. Scientific Reports, 2018, 8, 7514.	1.6	11
63	Experimental verification of electrostatic boundary conditions in gate-patterned quantum devices. Journal Physics D: Applied Physics, 2018, 51, 244004.	1.3	6
64	Controllable Photonic Time-Bin Qubits from a Quantum Dot. Physical Review X, 2018, 8, .	2.8	10
65	Incipient singlet-triplet states in a hybrid mesoscopic system. Physical Review B, 2018, 97, .	1.1	2
66	Formation of a macroscopically occupied polariton state in a tunable open-access microcavity under resonant excitation. Journal of Applied Physics, 2018, 124, .	1.1	3
67	Electrical Control of the Zeeman Spin Splitting in Two-Dimensional Hole Systems. Physical Review Letters, 2018, 121, 077701.	2.9	27
68	Structural and magnetic properties of ultra-thin Fe films on metal-organic chemical vapour deposited GaN(0001). Journal of Applied Physics, 2017, 121, .	1.1	7
69	A complete laboratory for transport studies of electron-hole interactions in GaAs/AlGaAs ambipolar bilayers. Applied Physics Letters, 2017, 110, 072105.	1.5	9
70	Electrically driven and electrically tunable quantum light sources. Applied Physics Letters, 2017, 110, .	1.5	25
71	Growth scheme for quantum dots with low fine structure splitting at telecom wavelengths (Conference Presentation). , 2017, , .		0
72	Reappearance of linear hole transport in an ambipolar undoped GaAs/AlGaAs quantum well. Journal of Physics Condensed Matter, 2017, 29, 185302.	0.7	0

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73	Fano resonance in a cavity-reflector hybrid system. Physical Review B, 2017, 95, .	1.1	11
74	Quantum Engineering of InAs/GaAs Quantum Dot Based Intermediate Band Solar Cells. ACS Photonics, 2017, 4, 2745-2750.	3.2	64
75	Interference Effects in a Tunable Quantum Point Contact Integrated with an Electronic Cavity. Physical Review Applied, 2017, 8, .	1.5	9
76	Ultrafast voltage sampling using single-electron wavepackets. Applied Physics Letters, 2017, 110, .	1.5	29
77	Dark Solitons in High Velocity Waveguide Polariton Fluids. Physical Review Letters, 2017, 119, 097403.	2.9	61
78	Temperature dependence of the band gap of zinc nitride observed in photoluminescence measurements. Applied Physics Letters, 2017, 111, .	1.5	14
79	Mechanisms for Strong Anisotropy of In-Plane $g$ -Factors in Hole Based Quantum Point Contacts. Physical Review Letters, 2017, 119, 116803.	2.9	18
80	Controlled spatial separation of spins and coherent dynamics in spin-orbit-coupled nanostructures. Nature Communications, 2017, 8, 15997.	5.8	21
81	Universal Growth Scheme for Quantum Dots with Low Fine-Structure Splitting at Various Emission Wavelengths. Physical Review Applied, 2017, 8, .	1.5	53
82	Quantum-Dot-Based Telecommunication-Wavelength Quantum Relay. Physical Review Applied, 2017, 8, .	1.5	29
83	Direct observation of exchange-driven spin interactions in one-dimensional system. Applied Physics Letters, 2017, 111, 042107.	1.5	12
84	On-Chip Andreev Devices: Hard Superconducting Gap and Quantum Transport in Ballistic $\text{Nb}_{0.75}\text{Ga}_{0.25}\text{As}$ Quantum Wells. Nb Josephson Junctions. Advanced Materials, 2017, 29, 1701836.	11.1	18
85	Strain Balancing of Metal-Organic Vapour Phase Epitaxy InAs/GaAs Quantum Dot Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-8.	1.9	5
86	Surface acoustic wave modulation of a coherently driven quantum dot in a pillar microcavity. Applied Physics Letters, 2017, 111, .	1.5	25
87	Growth scheme for quantum dots with low fine structure splitting at telecom wavelengths. , 2017, , .		0
88	Temperature Dependence of Spin-Split Peaks in Transverse Electron Focusing. Nanoscale Research Letters, 2017, 12, 553.	3.1	9
89	Coherent Quantum Transport in Hybrid Superconductor-2DEG-Superconductor Planar Josephson Junctions. , 2017, , .		0
90	Telecom-Wavelength Quantum Relay Using a Semiconductor Quantum Dot. , 2017, , .		3

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91	Cavity-enhanced coherent quantum emitters. , 2017, , .		0
92	Non-invasive charge detection in surface-acoustic-wave-defined dynamic quantum dots. Applied Physics Letters, 2016, 109, 183501.	1.5	0
93	N-type ohmic contacts to undoped GaAs/AlGaAs quantum wells using only front-sided processing: application to ambipolar FETs. Semiconductor Science and Technology, 2016, 31, 065013.	1.0	8
94	Anisotropic Pauli Spin Blockade of Holes in a GaAs Double Quantum Dot. Nano Letters, 2016, 16, 7685-7689.	4.5	47
95	Structural, electrical, and optical characterization of as grown and oxidized zinc nitride thin films. Journal of Applied Physics, 2016, 120, .	1.1	30
96	Switching between attractive and repulsive Coulomb-interaction-mediated drag in an ambipolar GaAs/AlGaAs bilayer device. Applied Physics Letters, 2016, 108, .	1.5	14
97	Enhanced indistinguishability of in-plane single photons by resonance fluorescence on an integrated quantum dot. Applied Physics Letters, 2016, 109, 151112.	1.5	16
98	Universality of the tunable-barrier electron pump at the part-per-million level. , 2016, , .		0
99	High-resolution error detection in the capture process of a single-electron pump. Applied Physics Letters, 2016, 108, 023502.	1.5	15
100	Resonance fluorescence from a telecom-wavelength quantum dot. Applied Physics Letters, 2016, 109, .	1.5	17
101	Spin-Dependent Transport in Fe/GaAs(100)/Fe Vertical Spin-Valves. Scientific Reports, 2016, 6, 29845.	1.6	12
102	Cavity-enhanced coherent light scattering from a quantum dot. Science Advances, 2016, 2, e1501256.	4.7	50
103	An entangled-LED-driven quantum relay over 1â€™km. Npj Quantum Information, 2016, 2, .	2.8	33
104	InGaAs spin light emitting diodes measured in the Faraday and oblique Hanle geometries. Journal Physics D: Applied Physics, 2016, 49, 165103.	1.3	3
105	Ultra-low-power polariton solitons in semiconductor waveguides and microcavities. , 2016, , .		0
106	Valence band offsets of Sc<sub>x</sub>Ga<sub>1â€™</sub>N/AlN and Sc<sub>x</sub>Ga<sub>1â€™</sub>N/GaN heterojunctions. Journal Physics D: Applied Physics, 2016, 49, 265110.	1.3	6
107	Composition measurement of epitaxial Sc<sub>x</sub>Ga<sub>1â€™</sub>N films. Semiconductor Science and Technology, 2016, 31, 064002.	1.0	3
108	Sensitive Radio-Frequency Measurements of a Quantum Dot by Tuning to Perfect Impedance Matching. Physical Review Applied, 2016, 5, .	1.5	44

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109	Effect of Split Gate Size on the Electrostatic Potential and 0.7 Anomaly within Quantum Wires on a Modulation-Doped $\text{GaAs}/\text{AlGaAs}$ Quantum Wells. Physical Review Applied, 2016, 5, .	1.5	8
110	Nature of the many-body excitations in a quantum wire: Theory and experiment. Physical Review B, 2016, 93, .	1.1	13
111	Ramsey interference in a multilevel quantum system. Physical Review B, 2016, 93, .	1.1	3
112	Thermal dissociation of free and acceptor-bound positive trions from magnetophotoluminescence studies of high quality $\text{GaAs}/\text{Al}_x\text{Ga}_{1-x}\text{As}$ quantum wells. Physical Review B, 2016, 93, .	1.1	1
113	A semiconductor photon-sorter. Nature Nanotechnology, 2016, 11, 857-860.	15.6	35
114	Time-of-Flight Measurements of Single-Electron Wave Packets in Quantum Hall Edge States. Physical Review Letters, 2016, 116, 126803.	2.9	64
115	Double-layer-gate architecture for few-hole GaAs quantum dots. Nanotechnology, 2016, 27, 334001.	1.3	5
116	Nonlinear spectra of spinons and holons in short GaAs quantum wires. Nature Communications, 2016, 7, 12784.	5.8	16
117	Few-second-long correlation times in a quantum dot nuclear spin bath probed by frequency-comb nuclear magnetic resonance spectroscopy. Nature Physics, 2016, 12, 688-693.	6.5	16
118	Tunable Nanopatterning of Conductive Polymers via Electrohydrodynamic Lithography. ACS Nano, 2016, 10, 3865-3870.	7.3	42
119	Ramsey interference in the resonance fluorescence of a charged quantum dot. , 2016, , .		0
120	Detection of anomalous Hall voltages in ultrahigh-mobility two-dimensional hole gases generated by optical spin orientation. Physical Review B, 2015, 91, .	1.1	0
121	Polarization-correlated photons from a positively charged quantum dot. Physical Review B, 2015, 92, .	1.1	2
122	Measurement and control of electron wave packets from a single-electron source. Physical Review B, 2015, 92, .	1.1	40
123	Quantum key distribution with an entangled light emitting diode. Applied Physics Letters, 2015, 107, .	1.5	12
124	Quantum photonics hybrid integration platform. Applied Physics Letters, 2015, 107, .	1.5	45
125	Determining energy relaxation length scales in two-dimensional electron gases. Applied Physics Letters, 2015, 107, .	1.5	5
126	Tunable polaritonic molecules in an open microcavity system. Applied Physics Letters, 2015, 107, .	1.5	19

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127	Density dependent composition of InAs quantum dots extracted from grazing incidence x-ray diffraction measurements. Scientific Reports, 2015, 5, 15732.	1.6	4
128	Interference with a quantum dot single-photon source and a laser at telecom wavelength. Applied Physics Letters, 2015, 107, .	1.5	10
129	Multiplexed charge-locking device for large arrays of quantum devices. Applied Physics Letters, 2015, 107, 143501.	1.5	35
130	Transverse magnetic focussing of heavy holes in a (100) GaAs quantum well. Semiconductor Science and Technology, 2015, 30, 102001.	1.0	3
131	The effect of metal-rich growth conditions on the microstructure of $\text{Sc}_x\text{Ga}_{1-x}\text{N}$ films grown using molecular beam epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2837-2842.	0.8	14
132	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. Journal of Applied Physics, 2015, 117, 015704.	1.1	6
133	Band gaps of wurtzite $\text{Sc}_x\text{Ga}_{1-x}\text{N}$ alloys. Applied Physics Letters, 2015, 106, .	1.5	14
134	Growth variations and scattering mechanisms in metamorphic $\text{In}_{0.75}\text{Ga}_{0.25}\text{As}/\text{In}_{0.75}\text{Al}_{0.25}\text{As}$ quantum wells grown by molecular beam epitaxy. Journal of Crystal Growth, 2015, 425, 70-75.	0.7	22
135	Hybrid architecture for shallow accumulation mode AlGaAs/GaAs heterostructures with epitaxial gates. Applied Physics Letters, 2015, 106, 012105.	1.5	7
136	Detecting noise with shot noise using on-chip photon detector. Nature Communications, 2015, 6, 6130.	5.8	5
137	Hierarchy of Modes in an Interacting One-Dimensional System. Physical Review Letters, 2015, 114, 196401.	2.9	18
138	On-chip generation and in-plane transmission of indistinguishable photons. , 2015, , .		0
139	Combining fast electrical control and resonant excitation to create a wavelength-tunable and coherent quantum-dot light source. Proceedings of SPIE, 2015, , .	0.8	0
140	Harvesting dissipated energy with a mesoscopic ratchet. Nature Communications, 2015, 6, 6738.	5.8	106
141	Ultra-low-power hybrid light-matter solitons. Nature Communications, 2015, 6, 8317.	5.8	74
142	All-electric all-semiconductor spin field-effect transistors. Nature Nanotechnology, 2015, 10, 35-39.	15.6	289
143	Quantum Teleportation with Light-emitting-diodes. , 2015, , .		0
144	Mapping the anisotropy of the Zeeman spin splitting of one-dimensional heavy holes in a GaAs quantum point contact. , 2014, , .		1

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145	Fabrication and characterization of few-hole quantum dots in undoped GaAs/AlGaAs heterostructures. , 2014, , .		0
146	Beyond modulation doping: Engineering a semiconductor to be ambipolar, or making an ON-OFF-ON transistor. , 2014, , .		0
147	Quantum Teleportation using Entangled LEDs. , 2014, , .		0
148	Ultrafast electrical control of a resonantly driven single photon source. Applied Physics Letters, 2014, 105, 051112.	1.5	7
149	High magnetic field studies of charged exciton localization in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As quantum wells. Applied Physics Letters, 2014, 105, 112104.	1.5	3
150	On-chip generation and guiding of quantum light from a site-controlled quantum dot. Applied Physics Letters, 2014, 104, .	1.5	16
151	Quantized escape and formation of edge channels at high Landau levels and edge transport mediated zero-differential resistance states. Physical Review B, 2014, 90, .	1.1	6
152	In-plane emission of indistinguishable photons generated by an integrated quantum emitter. Applied Physics Letters, 2014, 104, .	1.5	9
153	Coherent dynamics of a telecom-wavelength entangled photon source. Nature Communications, 2014, 5, 3316.	5.8	62
154	Many-body effects in a quasi-one-dimensional electron gas. Physical Review B, 2014, 90, .	1.1	39
155	Energy-Tunable Quantum Dot with Minimal Fine Structure Created by Using Simultaneous Electric and Magnetic Fields. Physical Review Applied, 2014, 1, .	1.5	19
156	Analysis of InAs/GaAs quantum dot solar cells using Suns- V <sub>oc</sub> measurements. Solar Energy Materials and Solar Cells, 2014, 130, 241-245.	3.0	43
157	Electric control of the spin Hall effect by intervalley transitions. Nature Materials, 2014, 13, 932-937.	13.3	49
158	Threshold tuning method for arrays of split-gate nanostructure transistors in series. , 2014, , .		0
159	Ultra-low-energy hybrid light-matter temporal and spatio-temporal solitons. , 2014, , .		0
160	Magnetic focusing with quantum point contacts in the non-equilibrium transport regime. Applied Physics Letters, 2013, 103, .	1.5	7
161	Electrical Control of the Exciton Fine Structure of a Quantum Dot Molecule. Physical Review Letters, 2013, 110, 016804.	2.9	32
162	Clock-Controlled Emission of Single-Electron Wave Packets in a Solid-State Circuit. Physical Review Letters, 2013, 111, 216807.	2.9	112

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163	Quantum teleportation of laser-generated photons with an entangled-light-emitting diode. Nature Communications, 2013, 4, 2859.	5.8	28
164	A quantum dot single photon source driven by resonant electrical injection. Applied Physics Letters, 2013, 103, .	1.5	17
165	Publisher's Note: Electrical Control of the Exciton Fine Structure of a Quantum Dot Molecule [Phys. Rev. Lett.110, 016804 (2013)]. Physical Review Letters, 2013, 110, .	2.9	1
166	Strong coupling at room temperature in ultracompact flexible metallic microcavities. Applied Physics Letters, 2013, 102, 011118.	1.5	2
167	Quantum teleportation using a light-emitting diode. Nature Photonics, 2013, 7, 311-315.	15.6	86
168	Exciton polaritons in semiconductor waveguides. Applied Physics Letters, 2013, 102, .	1.5	54
169	Demonstration and characterization of an ambipolar high mobility transistor in an undoped GaAs/AlGaAs quantum well. Applied Physics Letters, 2013, 102, .	1.5	16
170	Voltage tunability of single-spin states in a quantum dot. Nature Communications, 2013, 4, 1522.	5.8	41
171	Electrostatic modulation of periodic potentials in a two-dimensional electron gas: From antidot lattice to quantum dot lattice. , 2013, , .		0
172	Topological excitations in semiconductor heterostructures. , 2013, , .		0
173	Engineering quantum dots for electrical control of the fine structure splitting. Applied Physics Letters, 2013, 103, 031105.	1.5	4
174	Effect of low transverse magnetic field on the confinement strength in a quasi-1D wire. , 2013, , .		1
175	Large linear magnetoresistance in a GaAs/AlGaAs heterostructure. , 2013, , .		0
176	Coexistence of nearly free and strongly bound trions from magneto-photoluminescence of two-dimensional quantum structures with tunable electron or hole concentration. , 2013, , .		0
177	On-chip generation and transmission of single photons. Proceedings of SPIE, 2013, , .	0.8	0
178	Investigation of Quantum Dot Solar Cell Device Performance. Materials Research Society Symposia Proceedings, 2013, 1551, 137-142.	0.1	0
179	Voltage control of electron-nuclear spin correlation time in a single quantum dot. Physical Review B, 2013, 88, .	1.1	10
180	Teleportation using a quantum dot entangled-light-emitting diode. , 2013, , .		0

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181	A non-invasive electron thermometer based on charge sensing of a quantum dot. Applied Physics Letters, 2013, 103, 133116.	1.5	21
182	Rectification in mesoscopic alternating current-gated semiconductor devices. Journal of Applied Physics, 2013, 114, 164505.	1.1	14
183	Ultra-shallow quantum dots in an undoped GaAs/AlGaAs two-dimensional electron gas. Applied Physics Letters, 2013, 102, 103507.	1.5	17
184	On demand single photon-driven controlled-NOT gate. , 2013, , .		0
185	Spectral gain and cavity loss characterization of an optically-pumped external-cavity surface-emitting quantum well laser. , 2013, , .		0
186	Charge conversion of nearly free and impurity bound magneto-trions immersed in 2D electron or hole gas with optically tunable concentration. Journal of Physics: Conference Series, 2013, 456, 012017.	0.3	0
187	Effects of cryogenic temperatures on the performance of CW VECSELS. , 2013, , .		0
188	Generation of 200 fs pulses with a short microcavity VECSEL. Proceedings of SPIE, 2013, , .	0.8	1
189	A wavelength tunable 2-ps pulse VECSEL. , 2012, , .		4
190	Linear non-hysteretic gating of a very high density 2DEG in an undoped metal-“semiconductor”-metal sandwich structure. Semiconductor Science and Technology, 2012, 27, 115006.	1.0	4
191	175 GHz, 400-fs-pulse harmonically mode-locked surface emitting semiconductor laser. Optics Express, 2012, 20, 7040.	1.7	33
192	In-plane single-photon emission from a L3 cavity coupled to a photonic crystal waveguide. Optics Express, 2012, 20, 28614.	1.7	25
193	Enhancement of edge channel transport by a low-frequency irradiation. Physical Review B, 2012, 86, .	1.1	9
194	Indistinguishable Entangled Photons Generated by a Light-Emitting Diode. Physical Review Letters, 2012, 108, 040503.	2.9	64
195	Colossal nonsaturating linear magnetoresistance in two-dimensional electron systems at a GaAs/(Al,Ga)As heterointerface. Physical Review B, 2012, 86, .	1.1	11
196	Transport through an electrostatically defined quantum dot lattice in a two-dimensional electron gas. Physical Review B, 2012, 85, .	1.1	22
197	Probing the sensitivity of electron wave interference to disorder-induced scattering in solid-state devices. Physical Review B, 2012, 85, .	1.1	8
198	Part-per-million current accuracy in the tunable-barrier electron pump. , 2012, , .		0

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199	Disorder and Interaction Effects in Quantum Wires. Journal of Physics: Conference Series, 2012, 376, 012018.	0.3	8
200	On-Chip Transmission of Non-Classical Light from an Integrated Quantum Emitter. , 2012, , .		0
201	Femtosecond Semiconductor Laser Emitting High Average Power 175-GHz Pulse Train. , 2012, , .		0
202	Reduced tunnel-barrier height in sub-10 nm Au nanoelectrodes. , 2012, , .		0
203	&#x201C;You need another gate, mate&#x201D;; g-factor engineering in quantum wires and wrap-gated nanowires. , 2012, , .		0
204	Interactions between entangled photons emitted by a diode. , 2012, , .		0
205	The 1D g-factor and 0.7 anomaly in QPCs with independent control over density. , 2012, , .		0
206	The influence of small-angle scattering on ballistic transport in quantum dots. , 2012, , .		0
207	All-Electrical Injection and Detection of a Spin-Polarized Current Using 1D Conductors. Physical Review Letters, 2012, 109, 177202.	2.9	28
208	Extreme Sensitivity of the Spin-Splitting and 0.7 Anomaly to Confining Potential in One-Dimensional Nanoelectronic Devices. Nano Letters, 2012, 12, 4495-4502.	4.5	22
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399	Optical control of the mobility of a MODFET with a layer of self-assembled quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 479-483.	1.3	5
400	Detection of single photons using a field-effect transistor gated by a layer of quantum dots. <i>Applied Physics Letters</i> , 2000, 76, 3673-3675.	1.5	142
401	Tuning the insulator-quantum Hall liquid transitions in a two-dimensional electron gas using self-assembled InAs. <i>Physical Review B</i> , 2000, 61, 10910-10916.	1.1	32
402	Optically induced bistability in the mobility of a two-dimensional electron gas coupled to a layer of quantum dots. <i>Applied Physics Letters</i> , 1999, 74, 735-737.	1.5	62