Ian Farrer

List of Publications by Year
in descending order

402 papers	8,852 citations	47006 47 h-index	62596 80 g-index
409 all docs	409 docs citations	409 times ranked	7010 citing authors

#	Article	IF	Citations
1	An entangled-light-emitting diode. Nature, 2010, 465, 594-597.	27.8	308
2	All-electric all-semiconductor spin field-effect transistors. Nature Nanotechnology, 2015, 10, 35-39.	31.5	289
3	Two-photon interference of the emission from electrically tunable remote quantum dots. Nature Photonics, 2010, 4, 632-635.	31.4	277
4	On-demand single-electron transfer between distant quantum dots. Nature, 2011, 477, 439-442.	27.8	251
5	Towards a quantum representation of the ampere using single electron pumps. Nature Communications, 2012, 3, 930.	12.8	203
6	Electric-field-induced coherent coupling of the exciton states in a single quantum dot. Nature Physics, 2010, 6, 947-950.	16.7	189
7	Probing Spin-Charge Separation in a Tomonaga-Luttinger Liquid. Science, 2009, 325, 597-601.	12.6	188
8	A passively mode-locked external-cavity semiconductor laser emitting 60-fs pulses. Nature Photonics, 2009, 3, 729-731.	31.4	186
9	Magnetic-field-induced reduction of the exciton polarization splitting in InAs quantum dots. Physical Review B, 2006, 73, .	3.2	167
10	Efficient Single Photon Detection by Quantum Dot Resonant Tunneling Diodes. Physical Review Letters, 2005, 94, 067401.	7.8	145
11	Detection of single photons using a field-effect transistor gated by a layer of quantum dots. Applied Physics Letters, 2000, 76, 3673-3675.	3.3	142
12	Single-photon emission from exciton complexes in individual quantum dots. Physical Review B, 2001, 64, .	3.2	142
13	Quantum dots as a photon source for passive quantum key encoding. Physical Review B, 2002, 66, .	3.2	124
14	Electronic Refrigeration of a Two-Dimensional Electron Gas. Physical Review Letters, 2009, 102, 146602.	7.8	124
15	Clock-Controlled Emission of Single-Electron Wave Packets in a Solid-State Circuit. Physical Review Letters, 2013, 111, 216807.	7.8	112
16	Imaging Fractal Conductance Fluctuations and Scarred Wave Functions in a Quantum Billiard. Physical Review Letters, 2003, 91, 246803.	7.8	111
17	Harvesting dissipated energy with a mesoscopic ratchet. Nature Communications, 2015, 6, 6738.	12.8	106
18	Anomalous Coulomb Drag in Electron-Hole Bilayers. Physical Review Letters, 2008, 101, 246801.	7.8	104

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19	Giant Stark effect in the emission of single semiconductor quantum dots. Applied Physics Letters, 2010, 97, .	3.3	90
20	Quantum Thermal Conductance of Electrons in a One-Dimensional Wire. Physical Review Letters, 2006, 97, 056601.	7.8	86
21	Quantum teleportation using a light-emitting diode. Nature Photonics, 2013, 7, 311-315.	31.4	86
22	Conductance Quantization at a Half-Integer Plateau in a Symmetric GaAs Quantum Wire. Science, 2006, 312, 1359-1362.	12.6	85
23	Enhanced spin-relaxation time due to electron-electron scattering in semiconductor quantum wells. Physical Review B, 2007, 75, .	3.2	76
24	On-chip single photon emission from an integrated semiconductor quantum dot into a photonic crystal waveguide. Applied Physics Letters, 2011, 99, .	3.3	74
25	Ultra-low-power hybrid lightâ€"matter solitons. Nature Communications, 2015, 6, 8317.	12.8	74
26	Ultrafast optical Stark mode-locked semiconductor laser. Optics Letters, 2008, 33, 2797.	3.3	72
27	Incipient Formation of an Electron Lattice in a Weakly Confined Quantum Wire. Physical Review Letters, 2009, 102, 056804.	7.8	71
28	Experimental Realization of a Quantum Dot Energy Harvester. Physical Review Letters, 2019, 123, 117701.	7.8	69
29	Single shot charge detection using a radio-frequency quantum point contact. Applied Physics Letters, 2007, 91, .	3.3	67
30	Tunable Nonadiabatic Excitation in a Single-Electron Quantum Dot. Physical Review Letters, 2011, 106, 126801.	7.8	64
31	Indistinguishable Entangled Photons Generated by a Light-Emitting Diode. Physical Review Letters, 2012, 108, 040503.	7.8	64
32	Time-of-Flight Measurements of Single-Electron Wave Packets in Quantum Hall Edge States. Physical Review Letters, 2016, 116, 126803.	7.8	64
33	Quantum Engineering of InAs/GaAs Quantum Dot Based Intermediate Band Solar Cells. ACS Photonics, 2017, 4, 2745-2750.	6.6	64
34	Optically induced bistability in the mobility of a two-dimensional electron gas coupled to a layer of quantum dots. Applied Physics Letters, 1999, 74, 735-737.	3.3	62
35	Coherent dynamics of a telecom-wavelength entangled photon source. Nature Communications, 2014, 5, 3316.	12.8	62
36	Improvement in electron holographic phase images of focused-ion-beam-milled GaAs and Si p-n junctions by in situ annealing. Applied Physics Letters, 2006, 88, 063510.	3.3	61

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37	Dark Solitons in High Velocity Waveguide Polariton Fluids. Physical Review Letters, 2017, 119, 097403.	7.8	61
38	Coherent Time Evolution of a Single-Electron Wave Function. Physical Review Letters, 2009, 102, 156801.	7.8	59
39	Erasable electrostatic lithography for quantum components. Nature, 2003, 424, 751-754.	27.8	57
40	Controlled-NOT gate operating with single photons. Applied Physics Letters, 2012, 100, .	3.3	56
41	Exciton polaritons in semiconductor waveguides. Applied Physics Letters, 2013, 102, .	3.3	54
42	Narrow emission linewidths of positioned InAs quantum dots grown on pre-patterned GaAs(100) substrates. Nanotechnology, 2011, 22, 065302.	2.6	53
43	Universal Growth Scheme for Quantum Dots with Low Fine-Structure Splitting at Various Emission Wavelengths. Physical Review Applied, 2017, 8, .	3.8	53
44	Cavity-enhanced coherent light scattering from a quantum dot. Science Advances, 2016, 2, e1501256.	10.3	50
45	Oscillatory Dyakonov-Perel spin dynamics in two-dimensional electron gases. Physical Review B, 2007, 76, .	3.2	49
46	Electric control of the spin Hall effect by intervalley transitions. Nature Materials, 2014, 13, 932-937.	27.5	49
47	Spin injection between epitaxial Co2.4Mn1.6Ga and an InGaAs quantum well. Applied Physics Letters, 2005, 86, 252106.	3.3	48
48	Quantum ring formation and antimony segregation in GaSbâˆ•GaAs nanostructures. Journal of Vacuum Science & Technology B, 2008, 26, 1492-1503.	1.3	48
49	Slow-light-enhanced single quantum dot emission in a unidirectional photonic crystal waveguide. Applied Physics Letters, 2010, 96, .	3.3	48
50	Exciton-Spin Memory with a Semiconductor Quantum Dot Molecule. Physical Review Letters, 2011, 106, 216802.	7.8	47
51	Tuneable polaritonics at room temperature with strongly coupled Tamm plasmon polaritons in metal/air-gap microcavities. Applied Physics Letters, 2011, 98, .	3.3	47
52	Anisotropic Pauli Spin Blockade of Holes in a GaAs Double Quantum Dot. Nano Letters, 2016, 16, 7685-7689.	9.1	47
53	Photon number resolving detector based on a quantum dot field effect transistor. Applied Physics Letters, 2007, 90, 181114.	3.3	46
54	Bias-controlled spin polarization in quantum wires. Applied Physics Letters, 2008, 93, .	3.3	46

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55	Quantum photonics hybrid integration platform. Applied Physics Letters, 2015, 107, .	3.3	45
56	Spin-Incoherent Transport in Quantum Wires. Physical Review Letters, 2008, 101, 036801.	7.8	44
57	Sensitive Radio-Frequency Measurements of a Quantum Dot by Tuning to Perfect Impedance Matching. Physical Review Applied, 2016, 5, .	3.8	44
58	Single Photon Detection with a Quantum Dot Transistor. Japanese Journal of Applied Physics, 2001, 40, 2058-2064.	1.5	43
59	Energy-Dependent Tunneling from Few-Electron Dynamic Quantum Dots. Physical Review Letters, 2007, 99, 156802.	7.8	43
60	Spin transport in germanium at room temperature. Applied Physics Letters, 2010, 97, 162104.	3.3	43
61	Analysis of InAs/GaAs quantum dot solar cells using Suns- V oc measurements. Solar Energy Materials and Solar Cells, 2014, 130, 241-245.	6.2	43
62	Two-trap model for carrier lifetime and resistivity behavior in partially annealedGaAsgrown at low temperature. Physical Review B, 2006, 73, .	3.2	42
63	Zero-bias anomaly in quantum wires. Physical Review B, 2009, 79, .	3.2	42
64	Tunable Nanopatterning of Conductive Polymers via Electrohydrodynamic Lithography. ACS Nano, 2016, 10, 3865-3870.	14.6	42
65	Voltage tunability of single-spin states in a quantum dot. Nature Communications, 2013, 4, 1522.	12.8	41
66	Row coupling in an interacting quasi-one-dimensional quantum wire investigated using transport measurements. Physical Review B, 2009, 80, .	3.2	40
67	Measurement and control of electron wave packets from a single-electron source. Physical Review B, 2015, 92, .	3.2	40
68	A Josephson relation for fractionally charged anyons. Science, 2019, 363, 846-849.	12.6	40
69	Many-body effects in a quasi-one-dimensional electron gas. Physical Review B, 2014, 90, .	3.2	39
70	Noise-Controlled Signal Transmission in a Multithread Semiconductor Neuron. Physical Review Letters, 2009, 102, 226802.	7.8	38
71	Single-Electron Population and Depopulation of an Isolated Quantum Dot Using a Surface-Acoustic-Wave Pulse. Physical Review Letters, 2007, 98, 046801.	7.8	35
72	Multiplexed charge-locking device for large arrays of quantum devices. Applied Physics Letters, 2015, 107, 143501.	3.3	35

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73	A semiconductor photon-sorter. Nature Nanotechnology, 2016, 11, 857-860.	31.5	35
74	All-semiconductor room-temperature terahertz time domain spectrometer. Optics Letters, 2008, 33, 2125.	3.3	34
75	A semiconductor topological photonic ring resonator. Applied Physics Letters, 2020, 116, .	3.3	34
76	175 GHz, 400-fs-pulse harmonically mode-locked surface emitting semiconductor laser. Optics Express, 2012, 20, 7040.	3.4	33
77	An entangled-LED-driven quantum relay over 1â€‰km. Npj Quantum Information, 2016, 2, .	6.7	33
78	Tuning the insulatorâ€"quantum Hall liquid transitions in a two-dimensional electron gas using self-assembled InAs. Physical Review B, 2000, 61, 10910-10916.	3.2	32
79	Demonstration of a quantum cellular automata cell in a GaAsâˆ•AlGaAs heterostructure. Applied Physics Letters, 2007, 91, 032102.	3.3	32
80	Electrical Control of the Exciton Fine Structure of a Quantum Dot Molecule. Physical Review Letters, 2013, 110, 016804.	7.8	32
81	Low-noise photon counting with a radio-frequency quantum-dot field-effect transistor. Applied Physics Letters, 2004, 84, 419-421.	3.3	30
82	Structural, electrical, and optical characterization of as grown and oxidized zinc nitride thin films. Journal of Applied Physics, 2016, 120, .	2.5	30
83	Impact of Small-Angle Scattering on Ballistic Transport in Quantum Dots. Physical Review Letters, 2012, 108, 196807.	7.8	29
84	Ultrafast voltage sampling using single-electron wavepackets. Applied Physics Letters, 2017, 110, .	3.3	29
85	Quantum-Dot-Based Telecommunication-Wavelength Quantum Relay. Physical Review Applied, 2017, 8, .	3.8	29
86	Continuous-variable tomography of solitary electrons. Nature Communications, 2019, 10, 5298.	12.8	29
87	Geometric Control of Universal Hydrodynamic Flow in a Two-Dimensional Electron Fluid. Physical Review X, 2021, 11, .	8.9	29
88	Confined States of Individual Type-II GaSb/GaAs Quantum Rings Studied by Cross-Sectional Scanning Tunneling Spectroscopy. Nano Letters, 2010, 10, 3972-3977.	9.1	28
89	All-Electrical Injection and Detection of a Spin-Polarized Current Using 1D Conductors. Physical Review Letters, 2012, 109, 177202.	7.8	28
90	Quantum teleportation of laser-generated photons with an entangled-light-emitting diode. Nature Communications, 2013, 4, 2859.	12.8	28

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91	Single-photon emission from single-electron transport in a SAW-driven lateral light-emitting diode. Nature Communications, 2020, 11, 917.	12.8	28
92	Gain bandwidth characterization of surface-emitting quantum well laser gain structures for femtosecond operation. Optics Express, 2010, 18, 21330.	3.4	27
93	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.	7.8	27
94	Electrical Control of the Zeeman Spin Splitting in Two-Dimensional Hole Systems. Physical Review Letters, 2018, 121, 077701.	7.8	27
95	Quantum-dot thermometry of electron heating by surface acoustic waves. Applied Physics Letters, 2006, 89, 122104.	3.3	26
96	The possibility of an intrinsic spin lattice in high-mobility semiconductorÂheterostructures. Nature Physics, 2007, 3, 315-318.	16.7	25
97	Subpicosecond quantum dot saturable absorber mode-locked semiconductor disk laser. Applied Physics Letters, 2009, 94, 251105.	3.3	25
98	All-electrical coherent control of the exciton states in a single quantum dot. Physical Review B, 2010, 82, .	3.2	25
99	In-plane single-photon emission from a L3 cavity coupled to a photonic crystal waveguide. Optics Express, 2012, 20, 28614.	3.4	25
100	Electrically driven and electrically tunable quantum light sources. Applied Physics Letters, 2017, 110, .	3.3	25
101	Surface acoustic wave modulation of a coherently driven quantum dot in a pillar microcavity. Applied Physics Letters, 2017, 111, .	3.3	25
102	Non-Kondo zero-bias anomaly in quantum wires. Physical Review B, 2009, 79, .	3.2	24
103	Effect of InAs dots on noise of quantum dot resonant tunneling single-photon detectors. Applied Physics Letters, 2006, 89, 153510.	3.3	23
104	Passively harmonically mode-locked vertical-external-cavity surface-emitting laser emitting 1.1 ps pulses at 147 GHz repetition rate. Applied Physics Letters, 2010, 97, .	3.3	23
105	Distinguishing impurity concentrations in GaAs and AlGaAs using very shallow undoped heterostructures. Applied Physics Letters, 2010, 97, .	3.3	23
106	Room temperature 1.3Î¼m emission from self-assembled GaSb/GaAs quantum dots. Journal of Crystal Growth, 2003, 251, 771-776.	1.5	22
107	Quantum dot resonant tunneling diode single photon detector with aluminum oxide aperture defined tunneling area. Applied Physics Letters, 2008, 93, 153503.	3.3	22
108	Transport through an electrostatically defined quantum dot lattice in a two-dimensional electron gas. Physical Review B, 2012, 85, .	3.2	22

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109	Extreme Sensitivity of the Spin-Splitting and 0.7 Anomaly to Confining Potential in One-Dimensional Nanoelectronic Devices. Nano Letters, 2012, 12, 4495-4502.	9.1	22
110	Growth variations and scattering mechanisms in metamorphic In0.75Ga0.25As/In0.75 Al0.25As quantum wells grown by molecular beam epitaxy. Journal of Crystal Growth, 2015, 425, 70-75.	1.5	22
111	A quantum dot as a source of time-bin entangled multi-photon states. Quantum Science and Technology, 2019, 4, 025011.	5.8	22
112	Low-Temperature Collapse of Electron Localization in Two Dimensions. Physical Review Letters, 2008, 100, 016805.	7.8	21
113	A non-invasive electron thermometer based on charge sensing of a quantum dot. Applied Physics Letters, 2013, 103, 133116.	3.3	21
114	Controlled spatial separation of spins and coherent dynamics in spin-orbit-coupled nanostructures. Nature Communications, 2017, 8, 15997.	12.8	21
115	Observation of the Purcell effect in high-index-contrast micropillars. Applied Physics Letters, 2007, 90, 191911.	3.3	20
116	Spin injection from Co2MnGa into an InGaAs quantum well. Applied Physics Letters, 2008, 92, 232101.	3.3	20
117	Imaging the Zigzag Wigner Crystal in Confinement-Tunable Quantum Wires. Physical Review Letters, 2018, 121, 106801.	7.8	20
118	Zero-Magnetic Field Fractional Quantum States. Physical Review Letters, 2019, 122, 086803.	7.8	20
119	A tuneable telecom wavelength entangled light emitting diode deployed in an installed fibre network. Communications Physics, 2020, 3, .	5.3	20
120	Experimental Progress towards Probing the Ground State of an Electron-Hole Bilayer by Low-Temperature Transport. Advances in Condensed Matter Physics, 2011, 2011, 1-22.	1.1	19
121	Energy-Tunable Quantum Dot with Minimal Fine Structure Created by Using Simultaneous Electric and Magnetic Fields. Physical Review Applied, 2014, 1, .	3.8	19
122	Tunable polaritonic molecules in an open microcavity system. Applied Physics Letters, 2015, 107, .	3.3	19
123	Local transport in a disorder-stabilized correlated insulating phase. Physical Review B, 2005, 72, .	3.2	18
124	Highly Enhanced Thermopower in Two-Dimensional Electron Systems at Millikelvin Temperatures. Physical Review Letters, 2009, 103, 026602.	7.8	18
125	Hierarchy of Modes in an Interacting One-Dimensional System. Physical Review Letters, 2015, 114, 196401.	7.8	18
126	Mechanisms for Strong Anisotropy of In-Plane <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi></mml:math> -Factors in Hole Based Quantum Point Contacts. Physical Review Letters, 2017, 119, 116803.	7.8	18

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127	Onâ€Chip Andreev Devices: Hard Superconducting Gap and Quantum Transport in Ballistic Nbâ€“In_{0.75}Ga_{0.25}Asâ€Quantumâ€Wellâ€“Nb Josephson Junctions. Advanced Materials, 2017, 29, 1701836.	21.0	18
128	Long-term transmission of entangled photons from a single quantum dot over deployed fiber. Scientific Reports, 2019, 9, 4111.	3.3	18
129	Analysis of photomixer receivers for continuous-wave terahertz radiation. Applied Physics Letters, 2007, 91, 154103.	3.3	17
130	Substrate temperature measurement using a commercial band-edge detection system. Journal of Crystal Growth, 2007, 301-302, 88-92.	1.5	17
131	Scanning Hall Probe Microscopy (SHPM) Using Quartz Crystal AFM Feedback. Journal of Nanoscience and Nanotechnology, 2008, 8, 619-622.	0.9	17
132	Low temperature transport in undoped mesoscopic structures. Applied Physics Letters, 2009, 94, 172105.	3.3	17
133	A quantum dot single photon source driven by resonant electrical injection. Applied Physics Letters, 2013, 103, .	3.3	17
134	Ultra-shallow quantum dots in an undoped GaAs/AlGaAs two-dimensional electron gas. Applied Physics Letters, 2013, 102, 103507.	3.3	17
135	Resonance fluorescence from a telecom-wavelength quantum dot. Applied Physics Letters, 2016, 109, .	3.3	17
136	Coulomb blockade directional coupler. Applied Physics Letters, 2005, 86, 052102.	3.3	16
137	Demonstration and characterization of an ambipolar high mobility transistor in an undoped GaAs/AlGaAs quantum well. Applied Physics Letters, 2013, 102, .	3.3	16
138	On-chip generation and guiding of quantum light from a site-controlled quantum dot. Applied Physics Letters, 2014, 104, .	3.3	16
139	Enhanced indistinguishability of in-plane single photons by resonance fluorescence on an integrated quantum dot. Applied Physics Letters, 2016, 109, 151112.	3.3	16
140	Nonlinear spectra of spinons and holons in short GaAs quantum wires. Nature Communications, 2016, 7, 12784.	12.8	16
141	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.	16.7	16
142	Spatiotemporal continuum generation in polariton waveguides. Light: Science and Applications, 2019, 8, 6.	16.6	16
143	Possible effect of collective modes in zero magnetic field transport in an electron-hole bilayer. Physical Review B, 2009, 80, .	3.2	15
144	High-resolution error detection in the capture process of a single-electron pump. Applied Physics Letters, 2016, 108, 023502.	3.3	15

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145	Sensitive radiofrequency readout of quantum dots using an ultra-low-noise SQUID amplifier. Journal of Applied Physics, 2020, 127, .	2.5	15
146	Odd-even spin effects and variation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi></mml:math>factor in a quasi-one-dimensional subband. Physical Review B, 2009, 79, .	3.2	14
147	Compressibility Measurements of Quasi-One-Dimensional Quantum Wires. Physical Review Letters, 2011, 107, 126801.	7.8	14
148	Rectification in mesoscopic alternating current-gated semiconductor devices. Journal of Applied Physics, 2013, 114, 164505.	2.5	14
149	The effect of metalâ€rich growth conditions on the microstructure of Sc_xGa_{1â^'x}N films grown using molecular beam epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2837-2842.	1.8	14
150	Band gaps of wurtzite ScxGa1â^'xN alloys. Applied Physics Letters, 2015, 106, .	3.3	14
151	Switching between attractive and repulsive Coulomb-interaction-mediated drag in an ambipolar GaAs/AlGaAs bilayer device. Applied Physics Letters, 2016, 108, .	3.3	14
152	Temperature dependence of the band gap of zinc nitride observed in photoluminescence measurements. Applied Physics Letters, 2017, 111, .	3.3	14
153	Fano effect and Kondo effect in quantum dots formed in strongly coupled quantum wells. Physical Review B, 2006, 73, .	3.2	13
154	Waveguide coupled terahertz photoconductive antennas: Toward integrated photonic terahertz devices. Applied Physics Letters, 2008, 92, .	3.3	13
155	Electrical determination of the spin relaxation time of photoexcited electrons in GaAs. Applied Physics Letters, 2010, 96, .	3.3	13
156	Spiking computation and stochastic amplification in a neuron-like semiconductor microstructure. Journal of Applied Physics, 2011, 109, .	2.5	13
157	Nature of the many-body excitations in a quantum wire: Theory and experiment. Physical Review B, 2016, 93, .	3.2	13
158	Momentum-dependent power law measured in an interacting quantum wire beyond the Luttinger limit. Nature Communications, 2019, 10, 2821.	12.8	13
159	Single quantum dot electroluminescence near. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 390-394.	2.7	12
160	Zero-Bias Anomaly and Kondo-Assisted Quasiballistic 2D Transport. Physical Review Letters, 2005, 95, 066603.	7.8	12
161	Bychkovâ€"Rashba dominated band structure in an In0.75Ga0.25Asâ€"In0.75Al0.25As device with spin-split carrier densities of <1011cmâ^'2. Journal of Physics Condensed Matter, 2008, 20, 472207.	1.8	12
162	Elastic and plastic properties of In_xGa_{1â^'x}As. Journal Physics D: Applied Physics, 2008, 41, 205406.	2.8	12

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163	Enhanced terahertz emission from a multilayered low temperature grown GaAs structure. Applied Physics Letters, 2010, 96, 091101.	3.3	12
164	Signatures of an anomalous Nernst effect in a mesoscopic two-dimensional electron system. Physical Review B, 2011, 83, .	3.2	12
165	Excitonic couplings and Stark effect in individual quantum dot molecules. Journal of Applied Physics, 2011, 110, 083511.	2.5	12
166	Quantum key distribution with an entangled light emitting diode. Applied Physics Letters, 2015, 107, .	3.3	12
167	Spin-Dependent Transport in Fe/GaAs(100)/Fe Vertical Spin-Valves. Scientific Reports, 2016, 6, 29845.	3.3	12
168	Direct observation of exchange-driven spin interactions in one-dimensional system. Applied Physics Letters, 2017, 111, 042107.	3.3	12
169	Photon Phase Shift at the Few-Photon Level and Optical Switching by a Quantum Dot in a Microcavity. Physical Review Applied, 2019, 11, .	3.8	12
170	Short range scattering effect of InAs quantum dots in the transport properties of two dimensional electron gas. Applied Physics Letters, 2007, 90, 152110.	3.3	11
171	Controlled positive and negative surface charge injection and erasure in a GaAs/AlGaAs based microdevice by scanning probe microscopy. Nanotechnology, 2008, 19, 045304.	2.6	11
172	Direct Observation of Nonequilibrium Spin Population in Quasi-One-Dimensional Nanostructures. Nano Letters, 2010, 10, 2330-2334.	9.1	11
173	Colossal nonsaturating linear magnetoresistance in two-dimensional electron systems at a GaAs/(Al,Ga)As heterointerface. Physical Review B, 2012, 86, .	3.2	11
174	Fano resonance in a cavity-reflector hybrid system. Physical Review B, 2017, 95, .	3.2	11
175	Multi-dimensional photonic states from a quantum dot. Quantum Science and Technology, 2018, 3, 024008.	5.8	11
176	Proximity induced superconductivity in indium gallium arsenide quantum wells. Journal of Magnetism and Magnetic Materials, 2018, 459, 282-284.	2.3	11
177	Correlating Photoluminescence and Structural Properties of Uncapped and GaAs-Capped Epitaxial InGaAs Quantum Dots. Scientific Reports, 2018, 8, 7514.	3.3	11
178	Time-resolved studies of single quantum dots in magnetic fields. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 381-384.	2.7	10
179	Quantized acoustoelectric current in an InGaAs quantum well. Journal of Applied Physics, 2008, 103, .	2.5	10
180	The potential of split-gate transistors as one-dimensional electron waveguides revealed through the testing and analysis of yield and reproducibility. Applied Physics Letters, 2009, 94, 033502.	3.3	10

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181	Evidence of gate-tunable topological excitations in two-dimensional electron systems. Physical Review B, 2011, 83, .	3.2	10
182	Voltage control of electron-nuclear spin correlation time in a single quantum dot. Physical Review B, 2013, 88, .	3.2	10
183	Interference with a quantum dot single-photon source and a laser at telecom wavelength. Applied Physics Letters, 2015, 107, .	3.3	10
184	Engineering the spin polarization of one-dimensional electrons. Journal of Physics Condensed Matter, 2018, 30, 08LT01.	1.8	10
185	Controllable Photonic Time-Bin Qubits from a Quantum Dot. Physical Review X, 2018, 8, .	8.9	10
186	Quantized charge transport driven by a surface acoustic wave in induced unipolar and bipolar junctions. Physical Review B, 2019, 100, .	3.2	10
187	Strongly bias-dependent spin injection from Fe inton-type GaAs. Physical Review B, 2007, 75, .	3.2	9
188	Measurement of Coulomb-energy-dependent tunnelling rates in surface-acoustic-wave-defined dynamic quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1136-1138.	2.7	9
189	Energy-dependent electron-electron scattering and spin dynamics in a two-dimensional electron gas. Physical Review B, 2008, 77, .	3.2	9
190	Spin-injection device prospects for half-metallic Fe3O4:Al0.1Ga0.9As interfaces. Journal of Applied Physics, 2010, 108, 034507.	2.5	9
191	Spin current depolarization under high electric fields in undoped InGaAs. Applied Physics Letters, 2011, 98, 242104.	3.3	9
192	Enhancement of edge channel transport by a low-frequency irradiation. Physical Review B, 2012, 86, .	3.2	9
193	In-plane emission of indistinguishable photons generated by an integrated quantum emitter. Applied Physics Letters, 2014, 104, .	3.3	9
194	A complete laboratory for transport studies of electron-hole interactions in GaAs/AlGaAs ambipolar bilayers. Applied Physics Letters, 2017, 110, 072105.	3.3	9
195	Interference Effects in a Tunable Quantum Point Contact Integrated with an Electronic Cavity. Physical Review Applied, 2017, 8, .	3.8	9
196	Temperature Dependence of Spin-Split Peaks in Transverse Electron Focusing. Nanoscale Research Letters, 2017, 12, 553.	5.7	9
197	Detection of single photons using a field effect transistor with a layer of quantum dots. Measurement Science and Technology, 2002, 13, 1721-1726.	2.6	8
198	Unusual conductance collapse in one-dimensional quantum structures. Journal of Physics Condensed Matter, 2004, 16, L279-L286.	1.8	8

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199	High-performance millimeter-wave superlattice electronic devices. Applied Physics Letters, 2008, 93, 182105.	3.3	8
200	Benefits of using undoped GaAs/AlGaAs heterostructures: A case study of the zero-bias bias anomaly in quantum wires. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1200-1204.	2.7	8
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