

Ian Farrer

List of Publications by Citations

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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	An entangled-light-emitting diode. <i>Nature</i> , 2010 , 465, 594-7	50.4	251
331	Two-photon interference of the emission from electrically tunable remote quantum dots. <i>Nature Photonics</i> , 2010 , 4, 632-635	33.9	227
330	On-demand single-electron transfer between distant quantum dots. <i>Nature</i> , 2011 , 477, 439-42	50.4	208
329	All-electric all-semiconductor spin field-effect transistors. <i>Nature Nanotechnology</i> , 2015 , 10, 35-9	28.7	206
328	Electric-field-induced coherent coupling of the exciton states in a single quantum dot. <i>Nature Physics</i> , 2010 , 6, 947-950	16.2	167
327	Probing spin-charge separation in a Tomonaga-Luttinger liquid. <i>Science</i> , 2009 , 325, 597-601	33.3	162
326	Towards a quantum representation of the ampere using single electron pumps. <i>Nature Communications</i> , 2012 , 3, 930	17.4	160
325	Magnetic-field-induced reduction of the exciton polarization splitting in InAs quantum dots. <i>Physical Review B</i> , 2006 , 73,	3.3	153
324	A passively mode-locked external-cavity semiconductor laser emitting 60-fs pulses. <i>Nature Photonics</i> , 2009 , 3, 729-731	33.9	132
323	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	3.4	128
322	Single-photon emission from exciton complexes in individual quantum dots. <i>Physical Review B</i> , 2001 , 64,	3.3	128
321	Efficient single photon detection by quantum dot resonant tunneling diodes. <i>Physical Review Letters</i> , 2005 , 94, 067401	7.4	114
320	Quantum dots as a photon source for passive quantum key encoding. <i>Physical Review B</i> , 2002 , 66,	3.3	114
319	Electronic refrigeration of a two-dimensional electron gas. <i>Physical Review Letters</i> , 2009 , 102, 146602	7.4	109
318	Imaging fractal conductance fluctuations and scarred wave functions in a quantum billiard. <i>Physical Review Letters</i> , 2003 , 91, 246803	7.4	102
317	Harvesting dissipated energy with a mesoscopic ratchet. <i>Nature Communications</i> , 2015 , 6, 6738	17.4	91
316	Clock-controlled emission of single-electron wave packets in a solid-state circuit. <i>Physical Review Letters</i> , 2013 , 111, 216807	7.4	88

315	Anomalous coulomb drag in electron-hole bilayers. <i>Physical Review Letters</i> , 2008 , 101, 246801	7.4	88
314	Giant Stark effect in the emission of single semiconductor quantum dots. <i>Applied Physics Letters</i> , 2010 , 97, 031104	3.4	80
313	Conductance quantization at a half-integer plateau in a symmetric GaAs quantum wire. <i>Science</i> , 2006 , 312, 1359-62	33.3	78
312	Quantum thermal conductance of electrons in a one-dimensional wire. <i>Physical Review Letters</i> , 2006 , 97, 056601	7.4	78
311	Enhanced spin-relaxation time due to electron-electron scattering in semiconductor quantum wells. <i>Physical Review B</i> , 2007 , 75,	3.3	69
310	Quantum teleportation using a light-emitting diode. <i>Nature Photonics</i> , 2013 , 7, 311-315	33.9	68
309	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
308	Incipient formation of an electron lattice in a weakly confined quantum wire. <i>Physical Review Letters</i> , 2009 , 102, 056804	7.4	63
307	Ultra-low-power hybrid light-matter solitons. <i>Nature Communications</i> , 2015 , 6, 8317	17.4	62
306	Single shot charge detection using a radio-frequency quantum point contact. <i>Applied Physics Letters</i> , 2007 , 91, 222104	3.4	59
305	Tunable nonadiabatic excitation in a single-electron quantum dot. <i>Physical Review Letters</i> , 2011 , 106, 126801	7.4	56
304	Improvement in electron holographic phase images of focused-ion-beam-milled GaAs and Si p-n junctions by in situ annealing. <i>Applied Physics Letters</i> , 2006 , 88, 063510	3.4	56
303	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	3.4	56
302	Coherent dynamics of a telecom-wavelength entangled photon source. <i>Nature Communications</i> , 2014 , 5, 3316	17.4	53
301	Indistinguishable entangled photons generated by a light-emitting diode. <i>Physical Review Letters</i> , 2012 , 108, 040503	7.4	52
300	Coherent time evolution of a single-electron wave function. <i>Physical Review Letters</i> , 2009 , 102, 156801	7.4	52
299	Ultrafast optical Stark mode-locked semiconductor laser. <i>Optics Letters</i> , 2008 , 33, 2797-9	3	51
298	Erasable electrostatic lithography for quantum components. <i>Nature</i> , 2003 , 424, 751-4	50.4	51

297	Controlled-NOT gate operating with single photons. <i>Applied Physics Letters</i> , 2012 , 100, 211103	3-4	49
296	Narrow emission linewidths of positioned InAs quantum dots grown on pre-patterned GaAs(100) substrates. <i>Nanotechnology</i> , 2011 , 22, 065302	3-4	48
295	Dark Solitons in High Velocity Waveguide Polariton Fluids. <i>Physical Review Letters</i> , 2017 , 119, 097403	7-4	47
294	Slow-light-enhanced single quantum dot emission in a unidirectional photonic crystal waveguide. <i>Applied Physics Letters</i> , 2010 , 96, 031109	3-4	45
293	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
292	Quantum ring formation and antimony segregation in GaSb/GaAs nanostructures. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 1492		44
291	Oscillatory Dyakonov-Perel spin dynamics in two-dimensional electron gases. <i>Physical Review B</i> , 2007 , 76,	3-3	44
290	Spin injection between epitaxial Co _{2.4} Mn _{1.6} Ga and an InGaAs quantum well. <i>Applied Physics Letters</i> , 2005 , 86, 252106	3-4	44
289	Quantum Engineering of InAs/GaAs Quantum Dot Based Intermediate Band Solar Cells. <i>ACS Photonics</i> , 2017 , 4, 2745-2750	6-3	43
288	Experimental Realization of a Quantum Dot Energy Harvester. <i>Physical Review Letters</i> , 2019 , 123, 117701	7-4	42
287	Spin-incoherent transport in quantum wires. <i>Physical Review Letters</i> , 2008 , 101, 036801	7-4	42
286	Spin transport in germanium at room temperature. <i>Applied Physics Letters</i> , 2010 , 97, 162104	3-4	41
285	Exciton-spin memory with a semiconductor quantum dot molecule. <i>Physical Review Letters</i> , 2011 , 106, 216802	7-4	41
284	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
283	Energy-dependent tunneling from few-electron dynamic quantum dots. <i>Physical Review Letters</i> , 2007 , 99, 156802	7-4	41
282	Exciton polaritons in semiconductor waveguides. <i>Applied Physics Letters</i> , 2013 , 102, 012109	3-4	40
281	Bias-controlled spin polarization in quantum wires. <i>Applied Physics Letters</i> , 2008 , 93, 032102	3-4	40
280	Electric control of the spin Hall effect by intervalley transitions. <i>Nature Materials</i> , 2014 , 13, 932-7	27	38

279	Zero-bias anomaly in quantum wires. <i>Physical Review B</i> , 2009 , 79,	3.3	38
278	Two-trap model for carrier lifetime and resistivity behavior in partially annealed GaAs grown at low temperature. <i>Physical Review B</i> , 2006 , 73,	3.3	38
277	Photon number resolving detector based on a quantum dot field effect transistor. <i>Applied Physics Letters</i> , 2007 , 90, 181114	3.4	38
276	Cavity-enhanced coherent light scattering from a quantum dot. <i>Science Advances</i> , 2016 , 2, e1501256	14.3	38
275	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
274	Voltage tunability of single-spin states in a quantum dot. <i>Nature Communications</i> , 2013 , 4, 1522	17.4	36
273	Sensitive Radio-Frequency Measurements of a Quantum Dot by Tuning to Perfect Impedance Matching. <i>Physical Review Applied</i> , 2016 , 5,	4.3	35
272	Quantum photonics hybrid integration platform. <i>Applied Physics Letters</i> , 2015 , 107, 171108	3.4	35
271	Row coupling in an interacting quasi-one-dimensional quantum wire investigated using transport measurements. <i>Physical Review B</i> , 2009 , 80,	3.3	35
270	Single Photon Detection with a Quantum Dot Transistor. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 2058-2064	1.4	34
269	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
268	Noise-controlled signal transmission in a multithread semiconductor neuron. <i>Physical Review Letters</i> , 2009 , 102, 226802	7.4	33
267	Single-electron population and depopulation of an isolated quantum dot using a surface-acoustic-wave pulse. <i>Physical Review Letters</i> , 2007 , 98, 046801	7.4	33
266	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	3.3	32
265	Tunable Nanopatterning of Conductive Polymers via Electrohydrodynamic Lithography. <i>ACS Nano</i> , 2016 , 10, 3865-70	16.7	31
264	Many-body effects in a quasi-one-dimensional electron gas. <i>Physical Review B</i> , 2014 , 90,	3.3	31
263	Measurement and control of electron wave packets from a single-electron source. <i>Physical Review B</i> , 2015 , 92,	3.3	31
262	Anisotropic Pauli Spin Blockade of Holes in a GaAs Double Quantum Dot. <i>Nano Letters</i> , 2016 , 16, 7685-7689	3.0	30

261	Electrical control of the exciton fine structure of a quantum dot molecule. <i>Physical Review Letters</i> , 2013 , 110, 016804	7.4	29
260	An entangled-LED-driven quantum relay over 1 km. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	28
259	Multiplexed charge-locking device for large arrays of quantum devices. <i>Applied Physics Letters</i> , 2015 , 107, 143501	3.4	27
258	Confined states of individual type-II GaSb/GaAs quantum rings studied by cross-sectional scanning tunneling spectroscopy. <i>Nano Letters</i> , 2010 , 10, 3972-7	11.5	26
257	A Josephson relation for fractionally charged anyons. <i>Science</i> , 2019 , 363, 846-849	33.3	25
256	175 GHz, 400-fs-pulse harmonically mode-locked surface emitting semiconductor laser. <i>Optics Express</i> , 2012 , 20, 7040-5	3.3	25
255	Quantum-dot thermometry of electron heating by surface acoustic waves. <i>Applied Physics Letters</i> , 2006 , 89, 122104	3.4	25
254	Demonstration of a quantum cellular automata cell in a GaAs/AlGaAs heterostructure. <i>Applied Physics Letters</i> , 2007 , 91, 032102	3.4	25
253	Low-noise photon counting with a radio-frequency quantum-dot field-effect transistor. <i>Applied Physics Letters</i> , 2004 , 84, 419-421	3.4	25
252	Quantum teleportation of laser-generated photons with an entangled-light-emitting diode. <i>Nature Communications</i> , 2013 , 4, 2859	17.4	24
251	Impact of small-angle scattering on ballistic transport in quantum dots. <i>Physical Review Letters</i> , 2012 , 108, 196807	7.4	24
250	Non-Kondo zero-bias anomaly in quantum wires. <i>Physical Review B</i> , 2009 , 79,	3.3	24
249	All-semiconductor room-temperature terahertz time domain spectrometer. <i>Optics Letters</i> , 2008 , 33, 2125-7	3	24
248	All-electrical coherent control of the exciton states in a single quantum dot. <i>Physical Review B</i> , 2010 , 82,	3.3	23
247	A semiconductor photon-sorter. <i>Nature Nanotechnology</i> , 2016 , 11, 857-860	28.7	22
246	Quantum-Dot-Based Telecommunication-Wavelength Quantum Relay. <i>Physical Review Applied</i> , 2017 , 8,	4.3	22
245	All-electrical injection and detection of a spin-polarized current using 1D conductors. <i>Physical Review Letters</i> , 2012 , 109, 177202	7.4	22
244	Effect of InAs dots on noise of quantum dot resonant tunneling single-photon detectors. <i>Applied Physics Letters</i> , 2006 , 89, 153510	3.4	22

243	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
242	Distinguishing impurity concentrations in GaAs and AlGaAs using very shallow undoped heterostructures. <i>Applied Physics Letters</i> , 2010 , 97, 242107	3.4	21
241	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
240	Subpicosecond quantum dot saturable absorber mode-locked semiconductor disk laser. <i>Applied Physics Letters</i> , 2009 , 94, 251105	3.4	21
239	The possibility of an intrinsic spin lattice in high-mobility semiconductor heterostructures. <i>Nature Physics</i> , 2007 , 3, 315-318	16.2	21
238	Room temperature 1.3 μ m emission from self-assembled GaSb/GaAs quantum dots. <i>Journal of Crystal Growth</i> , 2003 , 251, 771-776	1.6	21
237	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
236	Transport through an electrostatically defined quantum dot lattice in a two-dimensional electron gas. <i>Physical Review B</i> , 2012 , 85,	3.3	20
235	Spin injection from Co ₂ MnGa into an InGaAs quantum well. <i>Applied Physics Letters</i> , 2008 , 92, 232101	3.4	20
234	Low-temperature collapse of electron localization in two dimensions. <i>Physical Review Letters</i> , 2008 , 100, 016805	7.4	20
233	Ultrafast voltage sampling using single-electron wavepackets. <i>Applied Physics Letters</i> , 2017 , 110, 102105	3.4	19
232	A non-invasive electron thermometer based on charge sensing of a quantum dot. <i>Applied Physics Letters</i> , 2013 , 103, 133116	3.4	19
231	Gain bandwidth characterization of surface-emitting quantum well laser gain structures for femtosecond operation. <i>Optics Express</i> , 2010 , 18, 21330-41	3.3	19
230	Quantum dot resonant tunneling diode single photon detector with aluminum oxide aperture defined tunneling area. <i>Applied Physics Letters</i> , 2008 , 93, 153503	3.4	19
229	Electrically driven and electrically tunable quantum light sources. <i>Applied Physics Letters</i> , 2017 , 110, 071102	3.4	18
228	Tunable polaritonic molecules in an open microcavity system. <i>Applied Physics Letters</i> , 2015 , 107, 201106	3.4	18
227	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
226	Local transport in a disorder-stabilized correlated insulating phase. <i>Physical Review B</i> , 2005 , 72,	3.3	18

225	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
224	Scanning hall probe microscopy (SHPM) using quartz crystal AFM feedback. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 619-22	1.3	17
223	Substrate temperature measurement using a commercial band-edge detection system. <i>Journal of Crystal Growth</i> , 2007 , 301-302, 88-92	1.6	17
222	Observation of the Purcell effect in high-index-contrast micropillars. <i>Applied Physics Letters</i> , 2007 , 90, 191911	3.4	17
221	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
220	Growth variations and scattering mechanisms in metamorphic In _{0.75} Ga _{0.25} As/In _{0.75} Al _{0.25} As quantum wells grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2015 , 425, 70-75	1.6	16
219	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
218	Highly enhanced thermopower in two-dimensional electron systems at millikelvin temperatures. <i>Physical Review Letters</i> , 2009 , 103, 026602	7.4	16
217	Hierarchy of modes in an interacting one-dimensional system. <i>Physical Review Letters</i> , 2015 , 114, 196401	7.4	15
216	A semiconductor topological photonic ring resonator. <i>Applied Physics Letters</i> , 2020 , 116, 061102	3.4	15
215	Controlled spatial separation of spins and coherent dynamics in spin-orbit-coupled nanostructures. <i>Nature Communications</i> , 2017 , 8, 15997	17.4	15
214	Passively harmonically mode-locked vertical-external-cavity surface-emitting laser emitting 1.1 ps pulses at 147 GHz repetition rate. <i>Applied Physics Letters</i> , 2010 , 97, 251101	3.4	15
213	Coulomb blockade directional coupler. <i>Applied Physics Letters</i> , 2005 , 86, 052102	3.4	15
212	Imaging the Zigzag Wigner Crystal in Confinement-Tunable Quantum Wires. <i>Physical Review Letters</i> , 2018 , 121, 106801	7.4	15
211	Nonlinear spectra of spinons and holons in short GaAs quantum wires. <i>Nature Communications</i> , 2016 , 7, 12784	17.4	14
210	Electrical Control of the Zeeman Spin Splitting in Two-Dimensional Hole Systems. <i>Physical Review Letters</i> , 2018 , 121, 077701	7.4	14
209	Ultra-shallow quantum dots in an undoped GaAs/AlGaAs two-dimensional electron gas. <i>Applied Physics Letters</i> , 2013 , 102, 103507	3.4	14
208	Possible effect of collective modes in zero magnetic field transport in an electron-hole bilayer. <i>Physical Review B</i> , 2009 , 80,	3.3	14

207	Low temperature transport in undoped mesoscopic structures. <i>Applied Physics Letters</i> , 2009 , 94, 172105	3.4	14
206	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
205	Resonance fluorescence from a telecom-wavelength quantum dot. <i>Applied Physics Letters</i> , 2016 , 109, 163104	3.4	14
204	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
203	Long-term transmission of entangled photons from a single quantum dot over deployed fiber. <i>Scientific Reports</i> , 2019 , 9, 4111	4.9	13
202	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
201	A quantum dot single photon source driven by resonant electrical injection. <i>Applied Physics Letters</i> , 2013 , 103, 162108	3.4	13
200	Band gaps of wurtzite $\text{Sc}_x\text{Ga}_{1-x}\text{N}$ alloys. <i>Applied Physics Letters</i> , 2015 , 106, 132103	3.4	13
199	Odd-even spin effects and variation of g factor in a quasi-one-dimensional subband. <i>Physical Review B</i> , 2009 , 79,	3.3	13
198	Electrical determination of the spin relaxation time of photoexcited electrons in GaAs. <i>Applied Physics Letters</i> , 2010 , 96, 022505	3.4	13
197	Analysis of photomixer receivers for continuous-wave terahertz radiation. <i>Applied Physics Letters</i> , 2007 , 91, 154103	3.4	13
196	A tuneable telecom wavelength entangled light emitting diode deployed in an installed fibre network. <i>Communications Physics</i> , 2020 , 3,	5.4	13
195	Continuous-variable tomography of solitary electrons. <i>Nature Communications</i> , 2019 , 10, 5298	17.4	13
194	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
193	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
192	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. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 2837-2842	1.6	12
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	Rectification in mesoscopic alternating current-gated semiconductor devices. <i>Journal of Applied Physics</i> , 2013 , 114, 164505	2.5	12

189	Excitonic couplings and Stark effect in individual quantum dot molecules. <i>Journal of Applied Physics</i> , 2011 , 110, 083511	2.5	12
188	Fano effect and Kondo effect in quantum dots formed in strongly coupled quantum wells. <i>Physical Review B</i> , 2006 , 73,	3.3	12
187	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
186	High-resolution error detection in the capture process of a single-electron pump. <i>Applied Physics Letters</i> , 2016 , 108, 023502	3.4	12
185	Nature of the many-body excitations in a quantum wire: Theory and experiment. <i>Physical Review B</i> , 2016 , 93,	3.3	11
184	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	2.4	11
183	Direct observation of nonequilibrium spin population in quasi-one-dimensional nanostructures. <i>Nano Letters</i> , 2010 , 10, 2330-4	11.5	11
182	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
181	Elastic and plastic properties of InxGa1-xAs. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 205406	3	11
180	Zero-bias anomaly and kondo-assisted quasiballistic 2D transport. <i>Physical Review Letters</i> , 2005 , 95, 066603	7.4	11
179	Zero-Magnetic Field Fractional Quantum States. <i>Physical Review Letters</i> , 2019 , 122, 086803	7.4	10
178	Evidence of gate-tunable topological excitations in two-dimensional electron systems. <i>Physical Review B</i> , 2011 , 83,	3.3	10
177	Compressibility measurements of quasi-one-dimensional quantum wires. <i>Physical Review Letters</i> , 2011 , 107, 126801	7.4	10
176	Signatures of an anomalous Nernst effect in a mesoscopic two-dimensional electron system. <i>Physical Review B</i> , 2011 , 83,	3.3	10
175	Short range scattering effect of InAs quantum dots in the transport properties of two dimensional electron gas. <i>Applied Physics Letters</i> , 2007 , 90, 152110	3.4	10
174	Time-resolved studies of single quantum dots in magnetic fields. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 381-384	3	10
173	Spin-Dependent Transport in Fe/GaAs(100)/Fe Vertical Spin-Valves. <i>Scientific Reports</i> , 2016 , 6, 29845	4.9	10
172	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

171	Fano resonance in a cavity-reflector hybrid system. <i>Physical Review B</i> , 2017 , 95,	3.3	9
170	Proximity induced superconductivity in indium gallium arsenide quantum wells. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 459, 282-284	2.8	9
169	Momentum-dependent power law measured in an interacting quantum wire beyond the Luttinger limit. <i>Nature Communications</i> , 2019 , 10, 2821	17.4	9
168	Direct observation of exchange-driven spin interactions in one-dimensional system. <i>Applied Physics Letters</i> , 2017 , 111, 042107	3.4	9
167	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
166	Voltage control of electron-nuclear spin correlation time in a single quantum dot. <i>Physical Review B</i> , 2013 , 88,	3.3	9
165	Spiking computation and stochastic amplification in a neuron-like semiconductor microstructure. <i>Journal of Applied Physics</i> , 2011 , 109, 102408	2.5	9
164	Enhanced terahertz emission from a multilayered low temperature grown GaAs structure. <i>Applied Physics Letters</i> , 2010 , 96, 091101	3.4	9
163	Spin-injection device prospects for half-metallic Fe ₃ O ₄ :Al _{0.1} Ga _{0.9} As interfaces. <i>Journal of Applied Physics</i> , 2010 , 108, 034507	2.5	9
162	The potential of split-gate transistors as one-dimensional electron waveguides revealed through the testing and analysis of yield and reproducibility. <i>Applied Physics Letters</i> , 2009 , 94, 033502	3.4	9
161	Enhancement of edge channel transport by a low-frequency irradiation. <i>Physical Review B</i> , 2012 , 86,	3.3	9
160	BychkovRashba dominated band structure in an In _{0.75} Ga _{0.25} AsIn _{0.75} Al _{0.25} As device with spin-split carrier densities of . <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 472207	1.8	9
159	Controlled positive and negative surface charge injection and erasure in a GaAs/AlGaAs based microdevice by scanning probe microscopy. <i>Nanotechnology</i> , 2008 , 19, 045304	3.4	9
158	Waveguide coupled terahertz photoconductive antennas: Toward integrated photonic terahertz devices. <i>Applied Physics Letters</i> , 2008 , 92, 163502	3.4	9
157	Strongly bias-dependent spin injection from Fe into n-type GaAs. <i>Physical Review B</i> , 2007 , 75,	3.3	9
156	Single quantum dot electroluminescence near. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 390-394	3	9
155	Temperature Dependence of Spin-Split Peaks in Transverse Electron Focusing. <i>Nanoscale Research Letters</i> , 2017 , 12, 553	5	8
154	Multi-dimensional photonic states from a quantum dot. <i>Quantum Science and Technology</i> , 2018 , 3, 0240035	3.5	8

153	Engineering the spin polarization of one-dimensional electrons. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 08LT01	1.8	8
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