David A Ritchie

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.

1,289 papers	34,694 citations	78 h-index	142 g-index
1,511 ext. papers	38,589 ext. citations	4.3 avg, IF	6.74 L-index

#	Paper	IF	Citations
1289	Spatial coherence of electrically pumped random terahertz lasers. *Photonics Research*, **2022**, 10, 524	6	1
1288	Cooling low-dimensional electron systems into the microkelvin regime.. *Nature Communications*, **2022**, 13, 667	17.4	0
1287	Electrically Controllable Kondo Correlation in Spin-Orbit-Coupled Quantum Point Contacts.. *Physical Review Letters*, **2022**, 128, 027701	7.4	1
1286	Extracting quantitative dielectric properties from pump-probe spectroscopy.. *Nature Communications*, **2022**, 13, 1437	17.4	3
1285	An in-plane photoelectric effect in two-dimensional electron systems for terahertz detection.. *Science Advances*, **2022**, 8, eabi8398	14.3	2
1284	Observing separate spin and charge Fermi seas in a strongly correlated one-dimensional conductor. *Science Advances*, **2022**, 8,	14.3	1
1283	Texture and terahertz analysis of YBa2Cu3O7 grown onto LaAlO3 by the chemical solution deposition technique. *Heat Treatment and Surface Engineering*, **2021**, 3, 1-8	0.3	
1282	Single-electron pump with highly controllable plateaus. *Applied Physics Letters*, **2021**, 119, 153102	3.4	
1281	Exciton‐polaritons in GaAs-based slab waveguide photonic crystals. *Applied Physics Letters*, **2021**, 119, 181101	3.4	1
1280	Self-mixing interferometry and near-field nanoscopy in quantum cascade random lasers at terahertz frequencies. *Nanophotonics*, **2021**, 10, 1495-1503	6.3	5
1279	Engineering electron wavefunctions in asymmetrically confined quasi one-dimensional structures. *Applied Physics Letters*, **2021**, 118, 124002	3.4	1
1278	Microscopic metallic air-bridge arrays for connecting quantum devices. *Applied Physics Letters*, **2021** , 118, 162108	3.4	3
1277	Evaluation of the impact of the European Code against Cancer on awareness and attitudes towards cancer prevention at the population and health promoters' levels. *Cancer Epidemiology*, **2021**, 71, 101898	2.8	2
1276	Ballistic Hall Photovoltammetry of Magnetic Resonance in Individual Nanomagnets. *Physical Review Letters*, **2021**, 126, 207701	7.4	
1275	Millimeter-Wave-to-Terahertz Superconducting Plasmonic Waveguides for Integrated Nanophotonics at Cryogenic Temperatures. *Materials*, **2021**, 14,	3.5	1
1274	New signatures of the spin gap in quantum point contacts. *Nature Communications*, **2021**, 12, 5	17.4	4
1273	Coherence in single photon emission from droplet epitaxy and Stranski‐Krastanov quantum dots in the telecom C-band. *Applied Physics Letters*, **2021**, 118, 014003	3.4	11

1272	High electron mobility and low noise quantum point contacts in an ultra-shallow all-epitaxial metal gate GaAs/AlxGa1-xAs heterostructure. *Applied Physics Letters*, **2021**, 119, 063105	3.4	1
1271	Geometric Control of Universal Hydrodynamic Flow in a Two-Dimensional Electron Fluid. *Physical Review X*, **2021**, 11,	9.1	1
1270	Continuous wave vertical emission from terahertz microcavity lasers with a dual injection scheme. *Optics Express*, **2021**, 29, 33602-33614	3.3	
1269	Photovoltage detection of spin excitation of a ferromagnetic stripe and disk at low temperature. *Japanese Journal of Applied Physics*, **2020**, 59, SEED02	1.4	1
1268	The relationship between the three-dimensional structure of porous GaN distributed Bragg reflectors and their birefringence. *Journal of Applied Physics*, **2020**, 127, 193101	2.5	4
1267	Gigahertz-Clocked Teleportation of Time-Bin Qubits with a Quantum Dot in the Telecommunication C Band. *Physical Review Applied*, **2020**, 13,	4.3	8
1266	One-dimensional, surface emitting, disordered Terahertz lasers. *APL Photonics*, **2020**, 5, 036102	5.2	4
1265	Suspended two-dimensional electron gases in In0.75Ga0.25As quantum wells. *Applied Physics Letters*, **2020**, 116, 232106	3.4	0
1264	Sensitive radiofrequency readout of quantum dots using an ultra-low-noise SQUID amplifier. *Journal of Applied Physics*, **2020**, 127, 244503	2.5	6
1263	Single-photon emission from single-electron transport in a SAW-driven lateral light-emitting diode. *Nature Communications*, **2020**, 11, 917	17.4	13
1262	Demonstration of electron focusing using electronic lenses in low-dimensional system. *Scientific Reports*, **2020**, 10, 2593	4.9	0
1261	Integrated, Portable, Tunable, and Coherent Terahertz Sources and Sensitive Detectors Based on Layered Superconductors. *Proceedings of the IEEE*, **2020**, 108, 721-734	14.3	16
1260	Quantum teleportation using highly coherent emission from telecom C-band quantum dots. *Npj Quantum Information*, **2020**, 6,	8.6	30
1259	Highly efficient surface-emitting semiconductor lasers exploiting quasi-crystalline distributed feedback photonic patterns. *Light: Science and Applications*, **2020**, 9, 54	16.7	12
1258	A general approach for hysteresis-free, operationally stable metal halide perovskite field-effect transistors. *Science Advances*, **2020**, 6, eaaz4948	14.3	73
1257	X-ray atomic mapping of quantum dots. *Physical Review Materials*, **2020**, 4,	3.2	1
1256	Active reset of a radiative cascade for entangled-photon generation beyond the continuous-driving limit. *Physical Review Research*, **2020**, 2,	3.9	2
1255	1GHz clocked distribution of electrically generated entangled photon pairs. *Optics Express*, **2020**, 28, 36838-36848	3.3	6

1254	Superconductivity in AuNiGe Ohmic contacts to a GaAs-based high mobility two-dimensional electron gas. *Applied Physics Letters*, **2020**, 117, 162104	3.4	2
1253	Nonlinear spin filter for nonmagnetic materials at zero magnetic field. *Physical Review B*, **2020**, 102,	3.3	1
1252	Active metamaterial polarization modulators for the Terahertz frequency range. *Journal of Physics: Conference Series*, **2020**, 1571, 012003	0.3	1
1251	A tuneable telecom wavelength entangled light emitting diode deployed in an installed fibre network. *Communications Physics*, **2020**, 3,	5.4	13
1250	Improving reproducibility of quantum devices with completely undoped architectures. *Applied Physics Letters*, **2020**, 117, 183101	3.4	4
1249	High-Throughput Electrical Characterization of Nanomaterials from Room to Cryogenic Temperatures. *ACS Nano*, **2020**, 14, 15293-15305	16.7	2
1248	A Terahertz Chiral Metamaterial Modulator. *Advanced Optical Materials*, **2020**, 8, 2000581	8.1	15
1247	External cavity terahertz quantum cascade laser with a metamaterial/graphene optoelectronic mirror. *Applied Physics Letters*, **2020**, 117, 041105	3.4	5
1246	Experimental Realization of a Quantum Dot Energy Harvester. *Physical Review Letters*, **2019**, 123, 117701	7.4	42
1245	A Josephson relation for fractionally charged anyons. *Science*, **2019**, 363, 846-849	33.3	25
1244	Graphene-Integrated Metamaterial Device for All-Electrical Polarization Control of Terahertz Quantum Cascade Lasers. *ACS Photonics*, **2019**, 6, 1547-1555	6.3	21
1243	A quantum dot as a source of time-bin entangled multi-photon states. *Quantum Science and Technology*, **2019**, 4, 025011	5.5	6
1242	Frequency-tunable continuous-wave random lasers at terahertz frequencies. *Light: Science and Applications*, **2019**, 8, 43	16.7	20
1241	Orientation of hole quantum Hall nematic phases in an out-of-plane electric field. *Physical Review B*, **2019**, 99,	3.3	1
1240	Zero-Magnetic Field Fractional Quantum States. *Physical Review Letters*, **2019**, 122, 086803	7.4	10
1239	Thickness dependence of electron-electron interactions in topological p-n junctions. *Physical Review B*, **2019**, 99,	3.3	3
1238	Long-term transmission of entangled photons from a single quantum dot over deployed fiber. *Scientific Reports*, **2019**, 9, 4111	4.9	13
1237	Molecular Beam Epitaxial Growth of Terahertz Quantum Cascade Lasers **2019**, 175-190		

1236	Scalable Quantum Integrated Circuits on Superconducting Two-Dimensional Electron Gas Platform. *Journal of Visualized Experiments*, **2019**,	1.6	1
1235	Andreev reflections and magnetotransport in 2D Josephson junctions. *Journal of Physics: Conference Series*, **2019**, 1182, 012010	0.3	1
1234	Pulse control protocols for preserving coherence in dipolar-coupled nuclear spin baths. *Nature Communications*, **2019**, 10, 3157	17.4	8
1233	Momentum-dependent power law measured in an interacting quantum wire beyond the Luttinger limit. *Nature Communications*, **2019**, 10, 2821	17.4	9
1232	Formation of a non-magnetic, odd-denominator fractional quantized conductance in a quasi-one-dimensional electron system. *Applied Physics Letters*, **2019**, 115, 123104	3.4	3
1231	Line-defect photonic crystal terahertz quantum cascade laser. *Journal of Applied Physics*, **2019**, 126, 153104	2.5	1
1230	Thermoelectric property of a one dimensional channel in the presence of a transverse magnetic field. *Applied Physics Letters*, **2019**, 115, 202102	3.4	1
1229	Amplification of nonlinear polariton pulses in waveguides. *Optics Express*, **2019**, 27, 10692-10704	3.3	1
1228	Continuous-variable tomography of solitary electrons. *Nature Communications*, **2019**, 10, 5298	17.4	13
1227	Quantized charge transport driven by a surface acoustic wave in induced unipolar and bipolar junctions. *Physical Review B*, **2019**, 100,	3.3	6
1226	Spatiotemporal continuum generation in polariton waveguides. *Light: Science and Applications*, **2019**, 8, 6	16.7	7
1225	Conductance quantisation in patterned gate InGaAs structures up to 6 (2e /h). *Journal of Physics Condensed Matter*, **2019**, 31, 104002	1.8	
1224	High mobility InGaAs quantum wells in an InAs phonon lattice. *Journal of Physics Condensed Matter*, **2018**, 30, 105705	1.8	1
1223	Cavity assisted spin reconfiguration in a quantum wire. *Journal of Physics: Conference Series*, **2018**, 964, 012003	0.3	
1222	A quantum light-emitting diode for the standard telecom window around 1,550 nm. *Nature Communications*, **2018**, 9, 862	17.4	71
1221	Multi-dimensional photonic states from a quantum dot. *Quantum Science and Technology*, **2018**, 3, 024008	3.5	8
1220	Engineering the spin polarization of one-dimensional electrons. *Journal of Physics Condensed Matter*, **2018**, 30, 08LT01	1.8	8
1219	Coherent Spin Amplification Using a Beam Splitter. *Physical Review Letters*, **2018**, 120, 137701	7.4	6

1218	On-chip Hybrid Superconducting-Semiconducting Quantum Circuit. *IEEE Transactions on Applied Superconductivity*, **2018**, 28, 1-4	1.8	2
1217	Continuous-wave highly-efficient low-divergence terahertz wire lasers. *Nature Communications*, **2018**, 9, 1122	17.4	22
1216	Proximity induced superconductivity in indium gallium arsenide quantum wells. *Journal of Magnetism and Magnetic Materials*, **2018**, 459, 282-284	2.8	9
1215	All-integrated terahertz modulators. *Nanophotonics*, **2018**, 7, 127-144	6.3	48
1214	Formation of a macroscopically occupied polariton state in a tunable open-access microcavity under resonant excitation. *Journal of Applied Physics*, **2018**, 124, 025703	2.5	3
1213	Photovoltage detection of Damon‐Eshbach and dipolar edge spin waves of nanomagnets with two-dimensional electron gas system. *Japanese Journal of Applied Physics*, **2018**, 57, 09TF01	1.4	0
1212	Active Control of Electromagnetically Induced Transparency in a Terahertz Metamaterial Array with Graphene for Continuous Resonance Frequency Tuning. *Advanced Optical Materials*, **2018**, 6, 1800570	8.1	56
1211	Electrical Control of the Zeeman Spin Splitting in Two-Dimensional Hole Systems. *Physical Review Letters*, **2018**, 121, 077701	7.4	14
1210	Graphene-loaded metal wire grating for deep and broadband THz modulation in total internal reflection geometry. *Photonics Research*, **2018**, 6, 1151	6	13
1209	Systematic Study of Ferromagnetism in CrSbTe Topological Insulator Thin Films using Electrical and Optical Techniques. *Scientific Reports*, **2018**, 8, 17024	4.9	7
1208	Design and fabrication of InAs/GaAs QD based intermediate band solar cells by quantum engineering **2018**,		3
1207	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	7.4	14
1206	Direct observation of spin polarization in GaAs quantum wires by transverse electron focusing. *Journal of Physics: Conference Series*, **2018**, 964, 012002	0.3	2
1205	Imaging the Zigzag Wigner Crystal in Confinement-Tunable Quantum Wires. *Physical Review Letters* , **2018**, 121, 106801	7.4	15
1204	Magnetoresistance in an electronic cavity coupled to one-dimensional systems. *Applied Physics Letters*, **2018**, 113, 112101	3.4	0
1203	Correlating Photoluminescence and Structural Properties of Uncapped and GaAs-Capped Epitaxial InGaAs Quantum Dots. *Scientific Reports*, **2018**, 8, 7514	4.9	6
1202	Independent indistinguishable quantum light sources on a reconfigurable photonic integrated circuit. *Applied Physics Letters*, **2018**, 112, 211104	3.4	25
1201	Experimental verification of electrostatic boundary conditions in gate-patterned quantum devices. *Journal Physics D: Applied Physics*, **2018**, 51, 244004	3	4

1200	Amplitude stabilization and active control of a terahertz quantum cascade laser with a graphene loaded split-ring-resonator array. *Applied Physics Letters*, **2018**, 112, 201102	3.4	5
1199	Controllable Photonic Time-Bin Qubits from a Quantum Dot. *Physical Review X*, **2018**, 8,	9.1	6
1198	Using Transmissive Photonic Band Edge Shift to Detect Explosives: A Study with 2,4,6-Trinitrotoluene (TNT). *ACS Photonics*, **2017**, 4, 384-395	6.3	8
1197	A complete laboratory for transport studies of electron-hole interactions in GaAs/AlGaAs ambipolar bilayers. *Applied Physics Letters*, **2017**, 110, 072105	3.4	9
1196	Electrically driven and electrically tunable quantum light sources. *Applied Physics Letters*, **2017**, 110, 071102	3.4	18
1195	Reappearance of linear hole transport in an ambipolar undoped GaAs/AlGaAs quantum well. *Journal of Physics Condensed Matter*, **2017**, 29, 185302	1.8	
1194	Bolometric detection of terahertz quantum cascade laser radiation with graphene-plasmonic antenna arrays. *Journal Physics D: Applied Physics*, **2017**, 50, 174001	3	17
1193	Fano resonance in a cavity-reflector hybrid system. *Physical Review B*, **2017**, 95,	3.3	9
1192	Probing the Topological Surface State in Bi2Se3 Thin Films Using Temperature-Dependent Terahertz Spectroscopy. *ACS Photonics*, **2017**, 4, 2711-2718	6.3	8
1191	Continuous-wave laser operation of a dipole antenna terahertz microresonator. *Light: Science and Applications*, **2017**, 6, e17054	16.7	8
1190	Quantum Engineering of InAs/GaAs Quantum Dot Based Intermediate Band Solar Cells. *ACS Photonics*, **2017**, 4, 2745-2750	6.3	43
1189	External amplitude and frequency modulation of a terahertz quantum cascade laser using metamaterial/graphene devices. *Scientific Reports*, **2017**, 7, 7657	4.9	19
1188	Temperature Dependence of Spin-Split Peaks in Transverse Electron Focusing. *Nanoscale Research Letters*, **2017**, 12, 553	5	8
1187	Interference Effects in a Tunable Quantum Point Contact Integrated with an Electronic Cavity. *Physical Review Applied*, **2017**, 8,	4.3	5
1186	Ultrafast voltage sampling using single-electron wavepackets. *Applied Physics Letters*, **2017**, 110, 102105	3.4	19
1185	Partial hybridisation of electron-hole states in an InAs/GaSb double quantum well heterostructure. *Semiconductor Science and Technology*, **2017**, 32, 104002	1.8	3
1184	Terahertz Nanoscopy of Plasmonic Resonances with a Quantum Cascade Laser. *ACS Photonics*, **2017** , 4, 2150-2157	6.3	26
1183	Dark Solitons in High Velocity Waveguide Polariton Fluids. *Physical Review Letters*, **2017**, 119, 097403	7.4	47

1182	Disentangling surface and bulk transport in topological-insulator p□ junctions. *Physical Review B*, **2017**, 96,	3.3	10
1181	Mechanisms for Strong Anisotropy of In-Plane g-Factors in Hole Based Quantum Point Contacts. *Physical Review Letters*, **2017**, 119, 116803	7.4	12
1180	Contactless graphene conductivity mapping on a wide range of substrates with terahertz time-domain reflection spectroscopy. *Scientific Reports*, **2017**, 7, 10625	4.9	19
1179	Controlled spatial separation of spins and coherent dynamics in spin-orbit-coupled nanostructures. *Nature Communications*, **2017**, 8, 15997	17.4	15
1178	Crossover between magnetic and electric edges in quantum Hall systems. *Physical Review B*, **2017**, 96,	3.3	3
1177	Properties of GaN nanowires with ScxGa1□N insertion. *Physica Status Solidi (B): Basic Research*, **2017**, 254, 1600740	1.3	
1176	Universal Growth Scheme for Quantum Dots with Low Fine-Structure Splitting at Various Emission Wavelengths. *Physical Review Applied*, **2017**, 8,	4.3	37
1175	Quantum-Dot-Based Telecommunication-Wavelength Quantum Relay. *Physical Review Applied*, **2017**, 8,	4.3	22
1174	Direct observation of exchange-driven spin interactions in one-dimensional system. *Applied Physics Letters*, **2017**, 111, 042107	3.4	9
1173	On-Chip Andreev Devices: Hard Superconducting Gap and Quantum Transport in Ballistic Nb-In Ga As-Quantum-Well-Nb Josephson Junctions. *Advanced Materials*, **2017**, 29, 1701836	24	11
1172	Optical side-band generation in THz Fabry-Perot laser cavities. *Applied Physics Letters*, **2017**, 111, 231106	3.4	0
1171	Surface acoustic wave modulation of a coherently driven quantum dot in a pillar microcavity. *Applied Physics Letters*, **2017**, 111, 011103	3.4	20
1170	High Open-Circuit Voltages in Tin-Rich Low-Bandgap Perovskite-Based Planar Heterojunction Photovoltaics. *Advanced Materials*, **2017**, 29, 1604744	24	166
1169	Landau-level mixing, floating-up extended states, and scaling behavior in a GaAs-based two-dimensional electron system containing self-assembled InAs dots. *Semiconductor Science and Technology*, **2017**, 32, 085011	1.8	
1168	Coherent detection of THz laser signals in optical fiber systems. *Optics Express*, **2017**, 25, 25566-25573	3.3	2
1167	Structure and Thermoelectric Properties of BiSbTe□Nanowires Grown in Flexible Nanoporous Polycarbonate Templates. *Materials*, **2017**, 10,	3.5	16
1166	Telecom-Wavelength Quantum Relay Using a Semiconductor Quantum Dot **2017**,		3
1165	Towards systematic evaluation of the European Code Against Cancer. Dissemination of the Code in Poland. *Journal of Health Inequalities*, **2017**, 3, 162-166	0.4	2

1164	Outcome of image-guided biopsies: Retrospective review of the West of Scotland musculoskeletal oncology service. *Journal of the Royal College of Surgeons of Edinburgh*, **2016**, 14, 87-90	2.5	8
1163	Sensitive Radio-Frequency Measurements of a Quantum Dot by Tuning to Perfect Impedance Matching. *Physical Review Applied*, **2016**, 5,	4.3	35
1162	Effect of Split Gate Size on the Electrostatic Potential and 0.7 Anomaly within Quantum Wires on a Modulation-Doped GaAs/AlGaAs Heterostructure. *Physical Review Applied*, **2016**, 5,	4.3	4
1161	Nature of the many-body excitations in a quantum wire: Theory and experiment. *Physical Review B*, **2016**, 93,	3.3	11
1160	Ramsey interference in a multilevel quantum system. *Physical Review B*, **2016**, 93,	3.3	3
1159	Thermal dissociation of free and acceptor-bound positive trions from magnetophotoluminescence studies of high quality GaAs/AlxGa1⊠As quantum wells. *Physical Review B*, **2016**, 93,	3.3	1
1158	Manifestation of a non-Abelian Berry phase in a p-type semiconductor system. *Physical Review B*, **2016**, 93,	3.3	10
1157	Single-Photon Superradiance from a Quantum Dot. *Physical Review Letters*, **2016**, 116, 163604	7.4	41
1156	A semiconductor photon-sorter. *Nature Nanotechnology*, **2016**, 11, 857-860	28.7	22
1155	Time-of-Flight Measurements of Single-Electron Wave Packets in Quantum Hall Edge States. *Physical Review Letters*, **2016**, 116, 126803	7.4	44
1154	Double-layer-gate architecture for few-hole GaAs quantum dots. *Nanotechnology*, **2016**, 27, 334001	3.4	4
1153	Nonlinear spectra of spinons and holons in short GaAs quantum wires. *Nature Communications*, **2016**, 7, 12784	17.4	14
1152	Hyperuniform disordered terahertz quantum cascade laser. *Scientific Reports*, **2016**, 6, 19325	4.9	32
1151	Interplay of spin⊠orbit coupling and superconducting correlations in germanium telluride thin films. *Physica Status Solidi - Rapid Research Letters*, **2016**, 10, 253-259	2.5	15
1150	Fast Modulation of Terahertz Quantum Cascade Lasers Using Graphene Loaded Plasmonic Antennas. *ACS Photonics*, **2016**, 3, 464-470	6.3	30
1149	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	16.2	12
1148	Non-invasive charge detection in surface-acoustic-wave-defined dynamic quantum dots. *Applied Physics Letters*, **2016**, 109, 183501	3.4	
1147	Improved Tuning Fork for Terahertz Quartz-Enhanced Photoacoustic Spectroscopy. *Sensors*, **2016**, 16, 439	3.8	40

1146	Investigation of hollow cylindrical metal terahertz waveguides suitable for cryogenic environments. *Optics Express*, **2016**, 24, 30002-30014	3.3	11
1145	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	1.8	7
1144	Anisotropic Pauli Spin Blockade of Holes in a GaAs Double Quantum Dot. *Nano Letters*, **2016**, 16, 7685-7689	12.5	30
1143	Switching between attractive and repulsive Coulomb-interaction-mediated drag in an ambipolar GaAs/AlGaAs bilayer device. *Applied Physics Letters*, **2016**, 108, 062102	3.4	12
1142	Enhanced indistinguishability of in-plane single photons by resonance fluorescence on an integrated quantum dot. *Applied Physics Letters*, **2016**, 109, 151112	3.4	14
1141	High-resolution error detection in the capture process of a single-electron pump. *Applied Physics Letters*, **2016**, 108, 023502	3.4	12
1140	Resonance fluorescence from a telecom-wavelength quantum dot. *Applied Physics Letters*, **2016**, 109, 163104	3.4	14
1139	Graphene based plasmonic terahertz amplitude modulator operating above 100 MHz. *Applied Physics Letters*, **2016**, 108, 171101	3.4	60
1138	Spin-Dependent Transport in Fe/GaAs(100)/Fe Vertical Spin-Valves. *Scientific Reports*, **2016**, 6, 29845	4.9	10
1137	Cavity-enhanced coherent light scattering from a quantum dot. *Science Advances*, **2016**, 2, e1501256	14.3	38
1136	An entangled-LED-driven quantum relay over 1 km. *Npj Quantum Information*, **2016**, 2,	8.6	28
1135	Topological states and phase transitions in Sb2Te3-GeTe multilayers. *Scientific Reports*, **2016**, 6, 27716	4.9	20
1134	InGaAs spin light emitting diodes measured in the Faraday and oblique Hanle geometries. *Journal Physics D: Applied Physics*, **2016**, 49, 165103	3	3
1133	Fast terahertz optoelectronic amplitude modulator based on plasmonic metamaterial antenna arrays and graphene **2016**,		2
1132	'Metal'-like transport in high-resistance, high aspect ratio two-dimensional electron gases. *Journal of Physics Condensed Matter*, **2016**, 28, 01LT01	1.8	3
1131	Thermoelectric and electrical transport in mesoscopic two-dimensional electron gases. *Comptes Rendus Physique*, **2016**, 17, 1123-1129	1.4	3
1130	Fast Room-Temperature Detection of Terahertz Quantum Cascade Lasers with Graphene-Loaded Bow-Tie Plasmonic Antenna Arrays. *ACS Photonics*, **2016**, 3, 1747-1753	6.3	29
1129	Valence band offsets of ScxGa1⊠N/AlN and ScxGa1⊠N/GaN heterojunctions. *Journal Physics D: Applied Physics*, **2016**, 49, 265110	3	6

1128	Composition measurement of epitaxial ScxGa1⊠N films. *Semiconductor Science and Technology*, **2016**, 31, 064002	1.8	3
1127	THz waveguide adapters for efficient radiation out-coupling from double metal THz QCLs. *Optics Express*, **2015**, 23, 5190-200	3.3	9
1126	Landau level spin diode in a GaAs two dimensional hole system. *New Journal of Physics*, **2015**, 17, 033035	2.9	4
1125	Hierarchy of modes in an interacting one-dimensional system. *Physical Review Letters*, **2015**, 114, 196401	7.4	15
1124	THz saturable absorption in turbostratic multilayer graphene on silicon carbide. *Optics Express*, **2015**, 23, 11632-40	3.3	19
1123	Harvesting dissipated energy with a mesoscopic ratchet. *Nature Communications*, **2015**, 6, 6738	17.4	91
1122	Demonstration of a fully integrated superconducting receiver with a 2.7 THz quantum cascade laser. *Optics Express*, **2015**, 23, 4453-8	3.3	8
1121	Phase-locked arrays of surface-emitting graded-photonic-heterostructure terahertz semiconductor lasers. *Optics Express*, **2015**, 23, 6915-23	3.3	12
1120	Time-resolved THz Laser spectra using a Fiber-interfaced Optical Heterodyne system **2015**,		1
1119	Efficient coupling of double-metal terahertz quantum cascade lasers to flexible dielectric-lined hollow metallic waveguides. *Optics Express*, **2015**, 23, 26276-87	3.3	5
1118	Data analysis and review of radiology services at Glasgow 2014 Commonwealth Games. *Skeletal Radiology*, **2015**, 44, 1477-83	2.7	6
1117	Ultra-low-power hybrid light-matter solitons. *Nature Communications*, **2015**, 6, 8317	17.4	62
1116	THz quantum cascade lasers based on a hyperuniform design **2015**,		9
1115	Efficient and robust quantum random number generation by photon number detection. *Applied Physics Letters*, **2015**, 107, 071106	3.4	28
1114	All-electric all-semiconductor spin field-effect transistors. *Nature Nanotechnology*, **2015**, 10, 35-9	28.7	206
1113	Dependence of the 0.7 anomaly on the curvature of the potential barrier in quantum wires. *Physical Review B*, **2015**, 91,	3.3	7
1112	Polarization-correlated photons from a positively charged quantum dot. *Physical Review B*, **2015**, 92,	3.3	2
1111	Measurement and control of electron wave packets from a single-electron source. *Physical Review B*, **2015**, 92,	3.3	31

1110	Observation of geometry-dependent conductivity in two-dimensional electron systems. *Physical Review B*, **2015**, 92,	3.3	3
1109	Quantum key distribution with an entangled light emitting diode. *Applied Physics Letters*, **2015**, 107, 261101	3.4	8
1108	Quantum photonics hybrid integration platform. *Applied Physics Letters*, **2015**, 107, 171108	3.4	35
1107	Fast terahertz imaging using a quantum cascade amplifier. *Applied Physics Letters*, **2015**, 107, 011107	3.4	19
1106	Determining energy relaxation length scales in two-dimensional electron gases. *Applied Physics Letters*, **2015**, 107, 022104	3.4	4
1105	Tunable polaritonic molecules in an open microcavity system. *Applied Physics Letters*, **2015**, 107, 201106	3.4	18
1104	Density dependent composition of InAs quantum dots extracted from grazing incidence x-ray diffraction measurements. *Scientific Reports*, **2015**, 5, 15732	4.9	3
1103	Interference with a quantum dot single-photon source and a laser at telecom wavelength. *Applied Physics Letters*, **2015**, 107, 131106	3.4	9
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