

Robert J Young

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79
papers

3,251
citations

27
h-index

56
g-index

93
ext. papers

3,676
ext. citations

5.4
avg, IF

4.87
L-index

#	Paper	IF	Citations
79	A semiconductor source of triggered entangled photon pairs. <i>Nature</i> , 2006 , 439, 179-82	50.4	707
78	Quantum memories. <i>European Physical Journal D</i> , 2010 , 58, 1-22	1.3	323
77	Improved fidelity of triggered entangled photons from single quantum dots. <i>New Journal of Physics</i> , 2006 , 8, 29-29	2.9	208
76	Inversion of exciton level splitting in quantum dots. <i>Physical Review B</i> , 2005 , 72,	3.3	157
75	Magnetic-field-induced reduction of the exciton polarization splitting in InAs quantum dots. <i>Physical Review B</i> , 2006 , 73,	3.3	153
74	The Human Fetus Preferentially Engages with Face-like Visual Stimuli. <i>Current Biology</i> , 2017 , 27, 1825-1828.e3	12.9	151
73	Single Semiconductor Quantum Dots. <i>Nanoscience and Technology</i> , 2009 ,	0.6	113
72	Coherence of an entangled exciton-photon state. <i>Physical Review Letters</i> , 2007 , 99, 266802	7.4	111
71	A PUF taxonomy. <i>Applied Physics Reviews</i> , 2019 , 6, 011303	17.3	102
70	Evolution of entanglement between distinguishable light states. <i>Physical Review Letters</i> , 2008 , 101, 170501	5.0	93
69	Modulation of single quantum dot energy levels by a surface-acoustic-wave. <i>Applied Physics Letters</i> , 2008 , 93, 081115	3.4	77
68	A site-controlled quantum dot system offering both high uniformity and spectral purity. <i>Applied Physics Letters</i> , 2009 , 94, 223121	3.4	71
67	Edible unclonable functions. <i>Nature Communications</i> , 2020 , 11, 328	17.4	58
66	Quantum information to the home. <i>New Journal of Physics</i> , 2011 , 13, 063039	2.9	57
65	Quantum key distribution on a 10Gb/s WDM-PON. <i>Optics Express</i> , 2010 , 18, 9600-12	3.3	57
64	Control of fine-structure splitting of individual InAs quantum dots by rapid thermal annealing. <i>Applied Physics Letters</i> , 2007 , 90, 011907	3.4	57
63	Bell-inequality violation with a triggered photon-pair source. <i>Physical Review Letters</i> , 2009 , 102, 030406	7.4	56

62	GaSb/GaAs quantum dot formation and demolition studied with cross-sectional scanning tunneling microscopy. <i>Applied Physics Letters</i> , 2012 , 100, 142116	3.4	40
61	Photonic Crystals for Enhanced Light Extraction from 2D Materials. <i>ACS Photonics</i> , 2016 , 3, 2515-2520	6.3	37
60	The structural, electronic and optical properties of GaSb/GaAs nanostructures for charge-based memory. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 264001	3	37
59	AlGaAs/GaAs/AlGaAs quantum wells as a sensitive tool for the MOVPE reactor environment. <i>Journal of Crystal Growth</i> , 2010 , 312, 3057-3062	1.6	36
58	Single electron-spin memory with a semiconductor quantum dot. <i>New Journal of Physics</i> , 2007 , 9, 365-365.9		36
57	Optical observation of single-carrier charging in type-II quantum ring ensembles. <i>Applied Physics Letters</i> , 2012 , 100, 082104	3.4	35
56	Tuning the properties of exciton complexes in self-assembled GaSb/GaAs quantum rings. <i>Physical Review B</i> , 2011 , 83,	3.3	34
55	Heterodimensional charge-carrier confinement in stacked submonolayer InAs in GaAs. <i>Physical Review B</i> , 2016 , 93,	3.3	29
54	Linking structural and electronic properties of high-purity self-assembled GaSb/GaAs quantum dots. <i>Physical Review B</i> , 2012 , 86,	3.3	29
53	Monitoring epitaxially grown semiconductor wafers. <i>Thin Solid Films</i> , 2002 , 412, 76-83	2.2	27
52	Blueshifts of the emission energy in type-II quantum dot and quantum ring nanostructures. <i>Journal of Applied Physics</i> , 2013 , 114, 073519	2.5	22
51	Using Quantum Confinement to Uniquely Identify Devices. <i>Scientific Reports</i> , 2015 , 5, 16456	4.9	20
50	Visible Spectrum Quantum Light Sources Based on In _x Ga _{1-x} N/GaN Quantum Dots. <i>ACS Photonics</i> , 2015 , 2, 958-963	6.3	18
49	Porous Silica-Pillared MXenes with Controllable Interlayer Distances for Long-Life Na-Ion Batteries. <i>Langmuir</i> , 2020 , 36, 4370-4382	4	18
48	Optical identification using imperfections in 2D materials. <i>2D Materials</i> , 2017 , 4, 045021	5.9	16
47	Biphoton interference with a quantum dot entangled light source. <i>Optics Express</i> , 2007 , 15, 6507-12	3.3	16
46	Growth and structural characterization of pyramidal site-controlled quantum dots with high uniformity and spectral purity. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 1862-1866	1.3	15
45	Hybrid type-I InAs/GaAs and type-II GaSb/GaAs quantum dot structure with enhanced photoluminescence. <i>Applied Physics Letters</i> , 2015 , 106, 103104	3.4	14

44	Long-Wavelength Photoluminescence from Stacked Layers of High-Quality Type-II GaSb/GaAs Quantum Rings. <i>Crystal Growth and Design</i> , 2013 , 13, 1226-1230	3.5	13
43	High-accuracy analysis of nanoscale semiconductor layers using beam-exit ar-ion polishing and scanning probe microscopy. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3241-5	9.5	13
42	Low-angle misorientation dependence of the optical properties of InGaAs/InAlAs quantum wells. <i>Journal of Crystal Growth</i> , 2010 , 312, 1546-1550	1.6	12
41	Microtopography of the eye surface of the crab <i>Carcinus maenas</i> : an atomic force microscope study suggesting a possible antifouling potential. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130122	4.1	11
40	Physics of novel site controlled InGaAs quantum dots on (111) oriented substrates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 2761-2764	3	11
39	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
38	Large-Area Heterostructures from Graphene and Encapsulated Colloidal Quantum Dots via the Langmuir-Blodgett Method. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6805-6809	9.5	9
37	Extracting random numbers from quantum tunnelling through a single diode. <i>Scientific Reports</i> , 2017 , 7, 17879	4.9	9
36	Controlling the polarization correlation of photon pairs from a charge-tunable quantum dot. <i>Applied Physics Letters</i> , 2007 , 91, 011114	3.4	9
35	Strong directional dependence of single-quantum-dot fine structure. <i>Applied Physics Letters</i> , 2005 , 87, 133120	3.4	9
34	Room-Temperature Mid-Infrared Emission from Faceted InAsSb Multi Quantum Wells Embedded in InAs Nanowires. <i>Nano Letters</i> , 2018 , 18, 235-240	11.5	9
33	Increasing the light extraction and longevity of TMDC monolayers using liquid formed micro-lenses. <i>2D Materials</i> , 2017 , 4, 015032	5.9	8
32	Dispersal of pristine graphene for biological studies. <i>RSC Advances</i> , 2016 , 6, 69551-69559	3.7	8
31	Photoluminescence studies of individual and few GaSb/GaAs quantum rings. <i>AIP Advances</i> , 2014 , 4, 117127	7	8
30	Entangled photons from the biexciton cascade of quantum dots. <i>Journal of Applied Physics</i> , 2007 , 101, 081711	2.5	8
29	Silicon-Based Single Quantum Dot Emission in the Telecoms C-Band. <i>ACS Photonics</i> , 2017 , 4, 1740-1746	6.3	7
28	Fetal eye movements in response to a visual stimulus. <i>Brain and Behavior</i> , 2020 , 10, e01676	3.4	7
27	. <i>Proceedings of the IEEE</i> , 2007 , 95, 1805-1814	14.3	7

26	Relevance of the purity level in a MetalOrganic Vapour Phase Epitaxy reactor environment for the growth of high quality pyramidal site-controlled Quantum Dots. <i>Journal of Crystal Growth</i> , 2011 , 315, 119-122	1.6	6
25	Compact Electroabsorption Modulators for Photonic Integrated Circuits, Using an Isolated Pedestal Contact Scheme. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 356-358	2.2	6
24	Rapid thermal annealing and photoluminescence of type-II GaSb single monolayer quantum dot stacks. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 305104	3	4
23	. <i>IEEE Journal of Quantum Electronics</i> , 2012 , 48, 1467-1475	2	4
22	Hole migration and optically induced charge depletion in GaSb/GaAs wetting layers and quantum rings. <i>Physical Review B</i> , 2013 , 88,	3.3	4
21	Pyramidal quantum dots: High uniformity and narrow excitonic emission. <i>Superlattices and Microstructures</i> , 2010 , 47, 78-82	2.8	4
20	Combined metallic nano-rings and solid-immersion lenses for bright emission from single InAs/GaAs quantum dots. <i>Applied Physics Letters</i> , 2018 , 112, 221102	3.4	4
19	Inversion of the exciton fine structure splitting in quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 32, 97-100	3	3
18	Resonant-Tunnelling Diodes as PUF Building Blocks. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2021 , 9, 878-885	4.1	3
17	Photodetecting Heterostructures from Graphene and Encapsulated Colloidal Quantum Dot Films. <i>ACS Omega</i> , 2019 , 4, 15824-15828	3.9	2
16	Multimodal microscopy using half and half contact mode and ultrasonic force microscopy. <i>Nanotechnology</i> , 2014 , 25, 335708	3.4	2
15	Entangled Photon Generation by Quantum Dots. <i>Nanoscience and Technology</i> , 2009 , 227-265	0.6	2
14	Enhancing and quantifying spatial homogeneity in monolayer WS. <i>Scientific Reports</i> , 2021 , 11, 14831	4.9	2
13	Response to Scheel et al. <i>Current Biology</i> , 2018 , 28, R596-R597	6.3	2
12	Positive lidocaine toxicology screen after J-Tip for venipuncture. <i>Pediatric Emergency Care</i> , 2013 , 29, 1278-9	1.4	1
11	Source of triggered entangled photon pairs? (Reply). <i>Nature</i> , 2007 , 445, E5-E6	50.4	1
10	Entangled photons on-demand from a single quantum dot 2006 ,		1
9	Cancellation of fine-structure splitting in quantum dots by a magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 32, 135-138	3	1

- 8 Signing information in the quantum era. *AVS Quantum Science*, **2020**, 2, 044101 10.3 1
- 7 Improving the longevity of optically-read quantum dot physical unclonable functions. *Scientific Reports*, **2021**, 11, 10999 4.9 0
- 6 Hotspot generation for unique identification with nanomaterials. *Scientific Reports*, **2021**, 11, 1528 4.9 0
- 5 Biphoton interference with a quantum dot source of entangled light. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1888-1890 3
- 4 Entangled photon pairs from a quantum dot source. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2006**, 3, 3697-3701
- 3 Quantum dots for single photon and photon pair technology **2006**, 288-297
- 2 Quantum Dots in Planar Cavities [Single and Entangled Photon Sources **2008**, 59-69
- 1 Atomic-scale Authentication with Resonant Tunneling Diodes. *MRS Advances*, **2016**, 1, 1625-1629 0.7