

# Jonathan Finley

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8634647/jonathan-finley-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

248  
papers

8,786  
citations

51  
h-index

84  
g-index

282  
ext. papers

9,851  
ext. citations

6.1  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
248	Optically programmable electron spin memory using semiconductor quantum dots. <i>Nature</i> , <b>2004</b> , 432, 81-4	50.4	764
247	Inverted electron-hole alignment in InAs-GaAs self-assembled quantum dots. <i>Physical Review Letters</i> , <b>2000</b> , 84, 733-6	7.4	433
246	Direct observation of controlled coupling in an individual quantum dot molecule. <i>Physical Review Letters</i> , <b>2005</b> , 94, 057402	7.4	322
245	Lasing from individual GaAs-AlGaAs core-shell nanowires up to room temperature. <i>Nature Communications</i> , <b>2013</b> , 4, 2931	17.4	186
244	Observation of extremely slow hole spin relaxation in self-assembled quantum dots. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	181
243	Electrical detection of optically induced charge storage in self-assembled InAs quantum dots. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 2618-2620	3.4	168
242	Explanation of photon correlations in the far-off-resonance optical emission from a quantum-dot-cavity system. <i>Physical Review Letters</i> , <b>2009</b> , 103, 207403	7.4	160
241	Charged and neutral exciton complexes in individual self-assembled In(Ga)As quantum dots. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	158
240	Observation of multicharged excitons and biexcitons in a single InGaAs quantum dot. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	132
239	Direct-bandgap emission from hexagonal Ge and SiGe alloys. <i>Nature</i> , <b>2020</b> , 580, 205-209	50.4	124
238	Growth kinetics in position-controlled and catalyst-free InAs nanowire arrays on Si(111) grown by selective area molecular beam epitaxy. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 114316	2.5	122
237	Electrical control of spontaneous emission and strong coupling for a single quantum dot. <i>New Journal of Physics</i> , <b>2009</b> , 11, 023034	2.9	118
236	Investigation of the nonresonant dot-cavity coupling in two-dimensional photonic crystal nanocavities. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	116
235	Manipulation of the spontaneous emission dynamics of quantum dots in two-dimensional photonic crystals. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	112
234	Direct observation of a noncatalytic growth regime for GaAs nanowires. <i>Nano Letters</i> , <b>2011</b> , 11, 3848-54	11.5	108
233	Spontaneous alloy composition ordering in GaAs-AlGaAs core-shell nanowires. <i>Nano Letters</i> , <b>2013</b> , 13, 1522-7	11.5	106
232	Fine structure of charged and neutral excitons in InAs-Al <sub>0.6</sub> Ga <sub>0.4</sub> As quantum dots. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	103

231	Phonon-assisted transitions from quantum dot excitons to cavity photons. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	101
230	A Waveguide-Coupled On-Chip Single-Photon Source. <i>Physical Review X</i> , <b>2012</b> , 2,	9.1	100
229	Quantum-confined Stark shifts of charged exciton complexes in quantum dots. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	99
228	Optically probing spin and charge interactions in a tunable artificial molecule. <i>Physical Review Letters</i> , <b>2006</b> , 97, 076403	7.4	96
227	Emitters of $\pi$ -photon bundles. <i>Nature Photonics</i> , <b>2014</b> , 8, 550-555	33.9	93
226	Dephasing of exciton polaritons in photoexcited InGaAs quantum dots in GaAs nanocavities. <i>Physical Review Letters</i> , <b>2009</b> , 103, 087405	7.4	88
225	Monolithically Integrated High-Q Nanowire Lasers on Silicon. <i>Nano Letters</i> , <b>2016</b> , 16, 152-6	11.5	86
224	Silicon photonic crystal nanostructures for refractive index sensing. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 181103	3.4	85
223	Direct exciton emission from atomically thin transition metal dichalcogenide heterostructures near the lifetime limit. <i>Scientific Reports</i> , <b>2017</b> , 7, 12383	4.9	84
222	On-chip time resolved detection of quantum dot emission using integrated superconducting single photon detectors. <i>Scientific Reports</i> , <b>2013</b> , 3, 1901	4.9	84
221	Enhanced phonon-assisted absorption in single InAs/GaAs quantum dots. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	84
220	Recent advances in exciton-based quantum information processing in quantum dot nanostructures. <i>New Journal of Physics</i> , <b>2005</b> , 7, 184-184	2.9	81
219	Site-selectively generated photon emitters in monolayer MoS <sub>2</sub> via local helium ion irradiation. <i>Nature Communications</i> , <b>2019</b> , 10, 2755	17.4	80
218	Electric-field-dependent carrier capture and escape in self-assembled InAs/GaAs quantum dots. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 4344-4346	3.4	77
217	Photocurrent spectroscopy of InAs/GaAs self-assembled quantum dots. <i>Physical Review B</i> , <b>2000</b> , 62, 16784-16791	3.5	77
216	Three-stage decoherence dynamics of an electron spin qubit in an optically active quantum dot. <i>Nature Physics</i> , <b>2015</b> , 11, 1005-1008	16.2	71
215	The Dielectric Impact of Layer Distances on Exciton and Trion Binding Energies in van der Waals Heterostructures. <i>Nano Letters</i> , <b>2018</b> , 18, 2725-2732	11.5	71
214	Mutual coupling of two semiconductor quantum dots via an optical nanocavity. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	71

213	Electrical control of interdot electron tunneling in a double InGaAs quantum-dot nanostructure. <i>Physical Review Letters</i> , <b>2012</b> , 108, 197402	7.4	68
212	Absence of vapor-liquid-solid growth during molecular beam epitaxy of self-induced InAs nanowires on Si. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 123114	3.4	67
211	Quantum dot single-photon sources with ultra-low multi-photon probability. <i>Npj Quantum Information</i> , <b>2018</b> , 4,	8.6	67
210	Enhanced luminescence properties of InAs-InAsP core-shell nanowires. <i>Nano Letters</i> , <b>2013</b> , 13, 6070-7	11.5	62
209	Stark Effect Spectroscopy of Mono- and Few-Layer MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2016</b> , 16, 1554-9	11.5	61
208	Alloy Fluctuations Act as Quantum Dot-like Emitters in GaAs-AlGaAs Core-Shell Nanowires. <i>ACS Nano</i> , <b>2015</b> , 9, 8335-43	16.7	60
207	Dissipative preparation of the exciton and biexciton in self-assembled quantum dots on picosecond time scales. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	58
206	On-Chip Generation, Routing, and Detection of Resonance Fluorescence. <i>Nano Letters</i> , <b>2015</b> , 15, 5208-13	11.5	57
205	Continuum transitions and phonon coupling in single self-assembled Stranski-Krastanow quantum dots. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	57
204	Dynamic acoustic control of individual optically active quantum dot-like emission centers in heterostructure nanowires. <i>Nano Letters</i> , <b>2014</b> , 14, 2256-64	11.5	56
203	Manipulation of the homogeneous linewidth of an individual In(Ga)As quantum dot. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	56
202	Experimental determination of Gamma-X intervalley transfer mechanisms in GaAs/AlAs heterostructures. <i>Physical Review B</i> , <b>1996</b> , 54, R8329-R8332	3.3	55
201	Coaxial GaAs-AlGaAs core-multishell nanowire lasers with epitaxial gain control. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 011108	3.4	54
200	Demonstration of Confined Electron Gas and Steep-Slope Behavior in Delta-Doped GaAs-AlGaAs Core-Shell Nanowire Transistors. <i>Nano Letters</i> , <b>2015</b> , 15, 3295-302	11.5	53
199	High mobility one- and two-dimensional electron systems in nanowire-based quantum heterostructures. <i>Nano Letters</i> , <b>2013</b> , 13, 6189-96	11.5	52
198	High compositional homogeneity in In-rich InGaAs nanowire arrays on nanoimprinted SiO <sub>2</sub> /Si (111). <i>Applied Physics Letters</i> , <b>2012</b> , 101, 043116	3.4	51
197	Bandgap Engineering of Graphene Nanoribbons by Control over Structural Distortion. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 7803-7809	16.4	47
196	Temporal monitoring of nonresonant feeding of semiconductor nanocavity modes by quantum dot multiexciton transitions. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	46

195	Direct Measurements of Fermi Level Pinning at the Surface of Intrinsically n-Type InGaAs Nanowires. <i>Nano Letters</i> , <b>2016</b> , 16, 5135-42	11.5	46
194	Robust valley polarization of helium ion modified atomically thin MoS <sub>2</sub> . <i>2D Materials</i> , <b>2018</b> , 5, 011007	5.9	44
193	Surface plasmon resonance spectroscopy of single bowtie nano-antennas using a differential reflectivity method. <i>Scientific Reports</i> , <b>2016</b> , 6, 23203	4.9	44
192	A 2D semiconductor-self-assembled monolayer photoswitchable diode. <i>Advanced Materials</i> , <b>2015</b> , 27, 1426-31	24	44
191	Directional and dynamic modulation of the optical emission of an individual GaAs nanowire using surface acoustic waves. <i>Nano Letters</i> , <b>2011</b> , 11, 1512-7	11.5	44
190	Role of microstructure on optical properties in high-uniformity In <sub>1-x</sub> Ga <sub>x</sub> As nanowire arrays: Evidence of a wider wurtzite band gap. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	42
189	Progress towards single spin optoelectronics using quantum dot nanostructures. <i>Solid State Communications</i> , <b>2005</b> , 135, 591-601	1.6	42
188	Electric-Field Switchable Second-Harmonic Generation in Bilayer MoS <sub>2</sub> by Inversion Symmetry Breaking. <i>Nano Letters</i> , <b>2017</b> , 17, 392-398	11.5	41
187	Tunable quantum confinement in ultrathin, optically active semiconductor nanowires via reverse-reaction growth. <i>Advanced Materials</i> , <b>2015</b> , 27, 2195-202	24	39
186	Crystal Phase Quantum Dots in the Ultrathin Core of GaAs-AlGaAs Core-Shell Nanowires. <i>Nano Letters</i> , <b>2015</b> , 15, 7544-51	11.5	39
185	Highly efficient single-photon emission from single quantum dots within a two-dimensional photonic band-gap. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	38
184	Direct observation of acoustic phonon mediated relaxation between coupled exciton states in a single quantum dot molecule. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	38
183	Wavelength selective charge storage in self-assembled InGaAs/GaAs quantum dots. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 443-445	3.4	38
182	Resonance Fluorescence of GaAs Quantum Dots with Near-Unity Photon Indistinguishability. <i>Nano Letters</i> , <b>2019</b> , 19, 2404-2410	11.5	36
181	GaAs/AlGaAs core-shell nanowire lasers on silicon: invited review. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 053001	1.8	35
180	Lattice-Matched InGaAs-InAlAs Core-Shell Nanowires with Improved Luminescence and Photoresponse Properties. <i>Nano Letters</i> , <b>2015</b> , 15, 3533-40	11.5	35
179	Rate-limiting mechanisms in high-temperature growth of catalyst-free InAs nanowires with large thermal stability. <i>Nanotechnology</i> , <b>2012</b> , 23, 235602	3.4	35
178	Charge and spin readout scheme for single self-assembled quantum dots. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	35

177	Signatures of two-photon pulses from a quantum two-level system. <i>Nature Physics</i> , <b>2017</b> , 13, 649-654	16.2	34
176	Dynamic acousto-optic control of a strongly coupled photonic molecule. <i>Nature Communications</i> , <b>2015</b> , 6, 8540	17.4	34
175	Diameter dependent optical emission properties of InAs nanowires grown on Si. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 053103	3.4	34
174	High-fidelity optical preparation and coherent Larmor precession of a single hole in an (In,Ga)As quantum dot molecule. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	34
173	Acoustically regulated carrier injection into a single optically active quantum dot. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	34
172	Long-range ordered self-assembled InAs quantum dots epitaxially grown on (110) GaAs. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4750-4752	3.4	34
171	Tuning Lasing Emission toward Long Wavelengths in GaAs-(In,Al)GaAs Core-Multishell Nanowires. <i>Nano Letters</i> , <b>2018</b> , 18, 6292-6300	11.5	33
170	Emergence of photoswitchable states in a graphene-azobenzene-Au platform. <i>Nano Letters</i> , <b>2014</b> , 14, 6823-7	11.5	32
169	Observation and explanation of strong electrically tunable exciton g factors in composition engineered In(Ga)As quantum dots. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	32
168	Coupling Single Photons from Discrete Quantum Emitters in WSe to Lithographically Defined Plasmonic Slot Waveguides. <i>Nano Letters</i> , <b>2018</b> , 18, 6812-6819	11.5	31
167	Climbing the Jaynes-Cummings ladder by photon counting. <i>Journal of Nanophotonics</i> , <b>2012</b> , 6, 061803	1.1	31
166	Ultrafast Photodetection in the Quantum Wells of Single AlGaAs/GaAs-Based Nanowires. <i>Nano Letters</i> , <b>2015</b> , 15, 6869-74	11.5	30
165	Tuning the optical emission of MoS <sub>2</sub> nanosheets using proximal photoswitchable azobenzene molecules. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 241116	3.4	29
164	Efficient spatial redistribution of quantum dot spontaneous emission from two-dimensional photonic crystals. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 061106	3.4	29
163	Observation of an electrically tunable exciton g factor in InGaAs/GaAs quantum dots. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 053113	3.4	28
162	Effect of interwire separation on growth kinetics and properties of site-selective GaAs nanowires. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 033111	3.4	27
161	Virtual Proofs of Reality and their Physical Implementation <b>2015</b> ,		27
160	Atomistic defects as single-photon emitters in atomically thin MoS <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2020</b> , 117, 070501	3.4	27

159	Luminescence spectra of quantum dots in microcavities. III. Multiple quantum dots. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	26
158	Photocurrents in a Single InAs Nanowire/Silicon Heterojunction. <i>ACS Nano</i> , <b>2015</b> , 9, 9849-58	16.7	25
157	Ultrafast few-fermion optoelectronics in a single self-assembled InGaAs/GaAs quantum dot. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	25
156	Discrete interactions between a few interlayer excitons trapped at a MoSe <sub>2</sub> /Se <sub>2</sub> heterointerface. <i>Npj 2D Materials and Applications</i> , <b>2020</b> , 4,	8.8	24
155	Probing the trapping and thermal activation dynamics of excitons at single twin defects in GaAs/AlGaAs core-shell nanowires. <i>New Journal of Physics</i> , <b>2013</b> , 15, 113032	2.9	24
154	Surface acoustic wave regulated single photon emission from a coupled quantum dot-nanocavity system. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 033105	3.4	24
153	Slow light enhanced gas sensing in photonic crystals. <i>Optical Materials</i> , <b>2018</b> , 76, 106-110	3.3	23
152	Optical properties and interparticle coupling of plasmonic bowtie nanoantennas on a semiconducting substrate. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	23
151	All optical quantum control of a spin-quantum state and ultrafast transduction into an electric current. <i>Scientific Reports</i> , <b>2013</b> , 3, 1906	4.9	23
150	Enhanced photoluminescence emission from two-dimensional silicon photonic crystal nanocavities. <i>New Journal of Physics</i> , <b>2010</b> , 12, 053005	2.9	23
149	Toward Plasmonic Tunnel Gaps for Nanoscale Photoemission Currents by On-Chip Laser Ablation. <i>Nano Letters</i> , <b>2019</b> , 19, 1172-1178	11.5	23
148	Direct Coupling of Coherent Emission from Site-Selectively Grown III-V Nanowire Lasers into Proximal Silicon Waveguides. <i>ACS Photonics</i> , <b>2017</b> , 4, 2537-2543	6.3	22
147	Electrical control of the exciton-biexciton splitting in self-assembled InGaAs quantum dots. <i>Nanotechnology</i> , <b>2011</b> , 22, 325202	3.4	22
146	Widely tunable alloy composition and crystal structure in catalyst-free InGaAs nanowire arrays grown by selective area molecular beam epitaxy. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 053110	3.4	22
145	Quantum Effects in Higher-Order Correlators of a Quantum-Dot Spin Qubit. <i>Physical Review Letters</i> , <b>2016</b> , 117, 027402	7.4	21
144	Highly nonlinear excitonic Zeeman spin splitting in composition-engineered artificial atoms. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	21
143	Direct observation of metastable hot trions in an individual quantum dot. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	21
142	Electrically probing photonic bandgap phenomena in contacted defect nanocavities. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 201111	3.4	21

141	Spin-preserving ultrafast carrier capture and relaxation in InGaAs quantum dots. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 153113	3.4	21
140	Continuous wave lasing from individual GaAs-AlGaAs core-shell nanowires. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 071107	3.4	21
139	The Native Material Limit of Electron and Hole Mobilities in Semiconductor Nanowires. <i>ACS Nano</i> , <b>2016</b> , 10, 4942-53	16.7	21
138	Coulomb Mediated Hybridization of Excitons in Coupled Quantum Dots. <i>Physical Review Letters</i> , <b>2016</b> , 116, 077401	7.4	20
137	Level-Crossing Transition in the Cluster Compounds Nb6I11 and HNb6I11. <i>Physical Review Letters</i> , <b>1981</b> , 46, 1472-1475	7.4	20
136	Engineering the Luminescence and Generation of Individual Defect Emitters in Atomically Thin MoS <sub>2</sub> . <i>ACS Photonics</i> , <b>2021</b> , 8, 669-677	6.3	20
135	Raman spectrum of Janus transition metal dichalcogenide monolayers WSe and MoS <sub>2</sub> . <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	20
134	Radio frequency occupancy state control of a single nanowire quantum dot. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 394011	3	19
133	Role of the X minimum in transport through AlAs single-barrier structures. <i>Physical Review B</i> , <b>1998</b> , 58, 10619-10628	3.3	19
132	Electroluminescence spectroscopy in a high magnetic field of the ballistic-electron energy distribution in single-barrier heterostructures. <i>Physical Review B</i> , <b>1995</b> , 51, 5562-5565	3.3	19
131	Selective optical charge generation, storage, and readout in a single self-assembled quantum dot. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 072108	3.4	18
130	Modal gain and lasing states in InAs/GaAs self-organized quantum dot lasers. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 615-617	2.5	18
129	Independent dynamic acousto-mechanical and electrostatic control of individual quantum dots in a LiNbO <sub>3</sub> -GaAs hybrid. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 013107	3.4	17
128	Pulsed Rabi oscillations in quantum two-level systems: beyond the area theorem. <i>Quantum Science and Technology</i> , <b>2018</b> , 3, 014006	5.5	17
127	Optimisation of NbN thin films on GaAs substrates for in-situ single photon detection in structured photonic devices. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 143507	2.5	17
126	Efficient and selective cavity-resonant excitation for single photon generation. <i>New Journal of Physics</i> , <b>2009</b> , 11, 013031	2.9	17
125	Temperature-induced carrier escape processes studied in absorption of individual In <sub>x</sub> Ga <sub>1-x</sub> As quantum dots. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	17
124	Suppression of alloy fluctuations in GaAs-AlGaAs core-shell nanowires. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 093105	3.4	17



123	Quantum Transport and Sub-Band Structure of Modulation-Doped GaAs/AlAs Core-Superlattice Nanowires. <i>Nano Letters</i> , <b>2017</b> , 17, 4886-4893	11.5	16
122	Optically monitoring electron spin relaxation in a single quantum dot using a spin memory device. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	16
121	Carrier dynamics in short wavelength self-assembled InAs/Al <sub>0.6</sub> Ga <sub>0.4</sub> As quantum dots with indirect barriers. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 3524-3528	2.5	16
120	Resonant Gamma -X- Gamma magnetotunneling in GaAs-AlAs-GaAs heterostructures. <i>Physical Review B</i> , <b>1996</b> , 54, R5251-R5254	3.3	16
119	Optical control of nonlinearly dressed states in an individual quantum dot. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	15
118	Spin crossover transition in the cluster compounds Nb <sub>6</sub> I <sub>11</sub> and HNb <sub>6</sub> I <sub>11</sub> . <i>Physical Review B</i> , <b>1981</b> , 24, 1323-1332	3.3	15
117	Crux of Using the Cascaded Emission of a Three-Level Quantum Ladder System to Generate Indistinguishable Photons. <i>Physical Review Letters</i> , <b>2020</b> , 125, 233605	7.4	15
116	Gate-Switchable Arrays of Quantum Light Emitters in Contacted Monolayer MoS van der Waals Heterodevices. <i>Nano Letters</i> , <b>2021</b> , 21, 1040-1046	11.5	15
115	A carrier relaxation bottleneck probed in single InGaAs quantum dots using integrated superconducting single photon detectors. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 081107	3.4	14
114	Probing ultrafast carrier tunneling dynamics in individual quantum dots and molecules. <i>Annalen Der Physik</i> , <b>2013</b> , 525, 49-58	2.6	14
113	An atomically resolved study of InGaAs quantum dot layers grown with an indium flush step. <i>Nanotechnology</i> , <b>2010</b> , 21, 215705	3.4	14
112	Excited state quantum couplings and optical switching of an artificial molecule. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	14
111	Signatures of a degenerate many-body state of interlayer excitons in a van der Waals heterostack. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	14
110	Broadband Purcell enhanced emission dynamics of quantum dots in linear photonic crystal waveguides. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 093520	2.5	13
109	Nonlinear optical response of a single self-assembled InGaAs quantum dot: A femtojoule pump-probe experiment. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 203110	3.4	13
108	Optical characterization of silicon on insulator photonic crystal nanocavities infiltrated with colloidal PbS quantum dots. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 233111	3.4	13
107	Electronic properties of InAs/GaAs self-assembled quantum dots studied by photocurrent spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2001</b> , 9, 106-113	3	13
106	Development of a multilayer thin-film solar control windshield. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1996</b> , 14, 739-746	2.9	13

105	Integrated superconducting detectors on semiconductors for quantum optics applications. <i>Applied Physics B: Lasers and Optics</i> , <b>2016</b> , 122, 1	1.9	13
104	Impact of substrate induced band tail states on the electronic and optical properties of MoS <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2019</b> , 115, 261603	3.4	13
103	Nonresonant feeding of photonic crystal nanocavity modes by quantum dots. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 102404	2.5	12
102	Enhanced optical activity of atomically thin MoSe <sub>2</sub> proximal to nanoscale plasmonic slot-waveguides. <i>2D Materials</i> , <b>2017</b> , 4, 021011	5.9	11
101	Controlled tunneling-induced dephasing of Rabi rotations for high-fidelity hole spin initialization. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	11
100	Surface acoustic wave controlled charge dynamics in a thin InGaAs quantum well. <i>JETP Letters</i> , <b>2012</b> , 95, 575-580	1.2	11
99	Optical properties of single charge tuneable InGaAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 13, 127-130	3	11
98	Observation of ballistic transport in double-barrier resonant-tunneling structures by electroluminescence spectroscopy. <i>Physical Review B</i> , <b>1994</b> , 50, 4885-4888	3.3	11
97	He-Ion Microscopy as a High-Resolution Probe for Complex Quantum Heterostructures in Core-Shell Nanowires. <i>Nano Letters</i> , <b>2018</b> , 18, 3911-3919	11.5	11
96	Breakdown of Corner States and Carrier Localization by Monolayer Fluctuations in Radial Nanowire Quantum Wells. <i>Nano Letters</i> , <b>2019</b> , 19, 3336-3343	11.5	10
95	Carrier concentration dependent photoluminescence properties of Si-doped InAs nanowires. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 091904	3.4	10
94	Correlated Chemical and Electrically Active Dopant Analysis in Catalyst-Free Si-Doped InAs Nanowires. <i>ACS Nano</i> , <b>2018</b> , 12, 1603-1610	16.7	10
93	Microscopic nature of crystal phase quantum dots in ultrathin GaAs nanowires by nanoscale luminescence characterization. <i>New Journal of Physics</i> , <b>2016</b> , 18, 063009	2.9	10
92	Ultracompact Photodetection in Atomically Thin MoSe <sub>2</sub> . <i>ACS Photonics</i> , <b>2019</b> , 6, 1902-1909	6.3	10
91	Long-term mutual phase locking of picosecond pulse pairs generated by a semiconductor nanowire laser. <i>Nature Communications</i> , <b>2017</b> , 8, 15521	17.4	10
90	Correlation between emission intensity of self-assembled germanium islands and quality factor of silicon photonic crystal nanocavities. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	10
89	Shape control of quantum dots studied by cross-sectional scanning tunneling microscopy. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 102413	2.5	10
88	A three-dimensional silicon photonic crystal nanocavity with enhanced emission from embedded germanium islands. <i>New Journal of Physics</i> , <b>2012</b> , 14, 083035	2.9	10

87	Quantum-Confinement-Enhanced Thermoelectric Properties in Modulation-Doped GaAs-AlGaAs Core-Shell Nanowires. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905458	24	10
86	Manganese doping for enhanced magnetic brightening and circular polarization control of dark excitons in paramagnetic layered hybrid metal-halide perovskites. <i>Nature Communications</i> , <b>2021</b> , 12, 3489	17.4	10
85	Imaging surface plasmon polaritons using proximal self-assembled InGaAs quantum dots. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 033101	2.5	9
84	Optomechanical wave mixing by a single quantum dot. <i>Optica</i> , <b>2021</b> , 8, 291	8.6	9
83	Emission redistribution from a quantum dot-bowtie nanoantenna. <i>Journal of Nanophotonics</i> , <b>2016</b> , 10, 033509	1.1	9
82	Optical absorption of composition-tunable InGaAs nanowire arrays. <i>Nanotechnology</i> , <b>2019</b> , 30, 495703	3.4	8
81	A few-emitter solid-state multi-exciton laser. <i>Scientific Reports</i> , <b>2017</b> , 7, 7420	4.9	8
80	Valence band splitting in wurtzite InGaAs nanoneedles studied by photoluminescence excitation spectroscopy. <i>ACS Nano</i> , <b>2014</b> , 8, 11440-6	16.7	8
79	Asymmetric optical nuclear spin pumping in a single uncharged quantum dot. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	8
78	High temperature behavior of reactively sputtered AlN films on float glass substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1994</b> , 12, 1528-1534	2.9	8
77	Metamorphic plasmonic nanoantennas for self-enhanced nonlinear light generation. <i>Optica</i> , <b>2016</b> , 3, 1453	8.6	8
76	GaN Nanowire Arrays for Efficient Optical Read-Out and Optoelectronic Control of NV Centers in Diamond. <i>Nano Letters</i> , <b>2018</b> , 18, 3651-3660	11.5	8
75	Enhanced THz emission efficiency of composition-tunable InGaAs nanowire arrays. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 201106	3.4	7
74	Demonstration of n-type behavior in catalyst-free Si-doped GaAs nanowires grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 052101	3.4	7
73	Carrier trapping and activation at short-period wurtzite/zinc-blende stacking sequences in polytypic InAs nanowires. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	7
72	Controlled positioning of self-assembled InAs quantum dots on (1 1 0) GaAs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2005</b> , 26, 72-76	3	7
71	Investigation of cavity modes and direct observation of Purcell enhancement in 2D photonic crystal defect microcavities. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2005</b> , 26, 351-355	3	7
70	Ultrathin catalyst-free InAs nanowires on silicon with distinct 1D sub-band transport properties. <i>Nanoscale</i> , <b>2020</b> , 12, 21857-21868	7.7	7

69	3D Deep Learning Enables Accurate Layer Mapping of 2D Materials. <i>ACS Nano</i> , <b>2021</b> , 15, 3139-3151	16.7	7
68	Optical study of lithographically defined, subwavelength plasmonic wires and their coupling to embedded quantum emitters. <i>Nanotechnology</i> , <b>2014</b> , 25, 075203	3.4	6
67	Direct measurement of plasmon propagation lengths on lithographically defined metallic waveguides on GaAs. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 123106	2.5	6
66	Coplanar stripline antenna design for optically detected magnetic resonance on semiconductor quantum dots. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 074707	1.7	6
65	Physics and applications of self-assembled quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2004</b> , 1, 2131-2159		6
64	Redistribution dynamics of optically generated charges in In(Ga)As/GaAs self-assembled quantum dots. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2592-2594	3.4	6
63	Anomalous Stark shifts in single vertically coupled pairs of InGaAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2005</b> , 26, 302-307	3	6
62	Voltage-controlled sharp-line electroluminescence in GaAs-AlAs double-barrier resonant-tunneling structures. <i>Physical Review B</i> , <b>1998</b> , 58, R4242-R4245	3.3	6
61	Line-Scan Hyperspectral Imaging Microscopy with Linear Unmixing for Automated Two-Dimensional Crystals Identification. <i>ACS Photonics</i> , <b>2020</b> , 7, 1216-1225	6.3	6
60	In situ synthesis of VO <sub>2</sub> for tunable mid-infrared photonic devices. <i>RSC Advances</i> , <b>2015</b> , 5, 59506-59512	3.7	5
59	Cascaded exciton emission of an individual strain-induced quantum dot. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 083122	3.4	5
58	Universal signatures of lasing in the strong coupling regime <b>2012</b> ,		5
57	Fabrication and investigation of photonic crystal microcavities for solid state quantum optics <b>2005</b> , 5733, 114		5
56	Theory of vertical and lateral Stark shifts of excitons in quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2003</b> , 1181-1184		5
55	Low-threshold strain-compensated InGaAs/(In,Al)GaAs multi-quantum well nanowire lasers emitting near 1.3 $\mu$ m at room temperature. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 221103	3.4	5
54	Growth dynamics and compositional structure in periodic InAsSb nanowire arrays on Si (111) grown by selective area molecular beam epitaxy. <i>Nanotechnology</i> , <b>2021</b> , 32, 135604	3.4	5
53	Optimized waveguide coupling of an integrated III-V nanowire laser on silicon. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 243102	2.5	4
52	Laser intensity effects in carrier-envelope phase-tagged time of flight-photoemission electron microscopy. <i>Applied Physics B: Lasers and Optics</i> , <b>2016</b> , 122, 1	1.9	4

51	Highly directed emission from self-assembled quantum dots into guided modes in disordered photonic-crystal waveguides. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	4
50	Design and realization of low density InAs quantum dots on AlGaInAs lattice matched to InP(001). <i>Journal of Crystal Growth</i> , <b>2010</b> , 312, 2300-2304	1.6	4
49	Determination of intervalley scattering times in GaAs from electroluminescence spectroscopy of single barrier tunneling devices. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 622-624	3.4	4
48	Resonant Tunneling in GaAs/AlAs/GaAs single barrier heterostructures at zero and elevated magnetic field. <i>Superlattices and Microstructures</i> , <b>1998</b> , 23, 513-519	2.8	4
47	Time-resolved measurements and spatial photoluminescence distribution in InAs/AlGaAs quantum dots. <i>Microelectronics Journal</i> , <b>2003</b> , 34, 747-749	1.8	4
46	Excitation and Relaxation Mechanisms in Single In(Ga)As Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , <b>2001</b> , 224, 373-378	1.3	4
45	Controlling exciton many-body states by the electric-field effect in monolayer MoS <sub>2</sub> . <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	4
44	Nanoscale mapping of carrier recombination in GaAs/AlGaAs core-multishell nanowires by cathodoluminescence imaging in a scanning transmission electron microscope. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 243102	3.4	4
43	Stimulated Generation of Indistinguishable Single Photons from a Quantum Ladder System.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 093603	7.4	4
42	Towards on-chip generation, routing and detection of non-classical light <b>2015</b> ,		3
41	Laterally self-ordered silicon-germanium islands with optimized confinement properties. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 063105	3.4	3
40	Tunable single quantum dot nanocavities for cavity QED experiments. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 454209	1.8	3
39	Wavelength selective data storage in InGaAs/GaAs quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , <b>2003</b> , 238, 345-348	1.3	3
38	Non-linear effects on the power dependent photocurrent of self-assembled InAs/GaAs quantum dots. <i>Microelectronics Journal</i> , <b>2003</b> , 34, 667-669	1.8	3
37	InAs/GaAs self-assembled quantum dot lasers: physical processes and device characteristics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 7, 489-493	3	3
36	Optically Induced Persistent Charge Storage Effects in Self Assembled InAs Quantum Dots. <i>Japanese Journal of Applied Physics</i> , <b>1999</b> , 38, 531-534	1.4	3
35	Electroluminescence spectroscopy of intervalley scattering and hot-hole transport in a GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As tunneling structure. <i>Physical Review B</i> , <b>1996</b> , 54, 4472-4475	3.3	3
34	Bright Electrically Controllable Quantum-Dot-Molecule Devices Fabricated by In Situ Electron-Beam Lithography. <i>Advanced Quantum Technologies</i> , <b>2021</b> , 4, 2100002	4.3	3

33	Strong transmittance above the light line in mid-infrared two-dimensional photonic crystals. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 223101	2.5	2
32	Coupling of guided surface plasmon polaritons to proximal self-assembled InGaAs Quantum Dots <b>2012</b> ,		2
31	Strong photoluminescence enhancement from colloidal quantum dot near silver nano-island films. <i>Journal of Fluorescence</i> , <b>2011</b> , 21, 539-43	2.4	2
30	All optical preparation, storage, and readout of a single spin in an individual quantum dot <b>2012</b> ,		2
29	Nonequilibrium carrier dynamics in self-assembled InGaAs quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 2217-2223	1.3	2
28	Systematic reduction of the permanent exciton dipole for charged excitons in individual self-assembled InGaAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 21, 199-203	3	2
27	Carrier dynamics in red-emitting self-organised InAs/AlGaAs quantum dots with indirect barriers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 17, 109-110	3	2
26	Origin of Antibunching in Resonance Fluorescence. <i>Physical Review Letters</i> , <b>2020</b> , 125, 170402	7.4	2
25	Time-domain photocurrent spectroscopy based on a common-path birefringent interferometer. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 123101	1.7	2
24	High-resolution spectroscopy of a quantum dot driven bichromatically by two strong coherent fields. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	2
23	Charged Exciton Kinetics in Monolayer MoSe near Ferroelectric Domain Walls in Periodically Poled LiNbO. <i>Nano Letters</i> , <b>2021</b> , 21, 959-966	11.5	2
22	Resonance-fluorescence spectral dynamics of an acoustically modulated quantum dot. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	2
21	Self-assembly of InAs Quantum Dot Structures on Cleaved Facets <b>2008</b> , 25-41		2
20	Quantum dynamics of damped and driven anharmonic oscillators. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 1296-1302		1
19	Fabrication of high-Q silicon-based three-dimensional photonic crystal nanocavity and its lasing oscillation with InAs quantum-dot gain <b>2011</b> ,		1
18	Recent progress towards acoustically mediated carrier injection into individual nanostructures for single photon generation <b>2010</b> ,		1
17	Optical Spectroscopy and Transport Studies of Tunnelling Processes and Hot Electron Relaxation in GaAs/AlGaAs and GaAs/AlAs Single Barrier Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , <b>1997</b> , 204, 215-222	1.3	1
16	Quantum Dot Charge and Spin Memory Devices <b>2008</b> , 476-504		1

15	Dynamics of optically stored charges in InGaAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 21, 886-891	3	1
14	Wavelength Selective Charge Storage in self-assembled InGaAs-GaAs Quantum Dots. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 737, 223		1
13	Optically-induced charge storage in self-assembled InAs quantum dots. <i>Thin Solid Films</i> , <b>2000</b> , 380, 192-194		1
12	Tuning the Optical Properties of a MoSe Monolayer Using Nanoscale Plasmonic Antennas.. <i>Nano Letters</i> , <b>2022</b> ,	11.5	1
11	Effects of charge accumulation on the photocurrent and photoluminescence characteristics of self-assembled InAs/GaAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 17, 37-39	3	0
10	Electronically Tunable Transparent Conductive Thin Films for Scalable Integration of 2D Materials with Passive 2DBD Interfaces. <i>Advanced Functional Materials</i> , 2111343	15.6	0
9	Epitaxial type-I and type-II InAs-AlAsSb core-shell nanowires on silicon. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 193102	3.4	0
8	Nanometer-scale Resolved Cathodoluminescence Imaging: New Insights into GaAs/AlGaAs Core-shell Nanowire Lasers. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1470-1471	0.5	
7	Outcoupling of Light Generated in a Monolithic Silicon Photonic Crystal Nanocavity through a Lateral Waveguide. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 062003	1.4	
6	Guided Self Assembly of InAs Quantum Dots on a Cleaved Facet. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 959, 1		
5	Nonlinear optical microscopy of a single self-assembled InGaAs quantum dot. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 4009-4012		
4	Picosecond Spin-Preserving Carrier Capture in InGaAs/GaAs Quantum Dots <b>2006</b> , 41-44		
3	Optical spectroscopy of self-assembled quantum dots <b>2002</b> , 85-109		
2	Nonlinear Optical Microscopy of a Single Self-Assembled InGaAs Quantum Dot. <i>Springer Series in Chemical Physics</i> , <b>2007</b> , 665-667	0.3	
1	Electronically Tunable Transparent Conductive Thin Films for Scalable Integration of 2D Materials with Passive 2DBD Interfaces (Adv. Funct. Mater. 21/2022). <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2270119	15.6	