

# Jonathan Finley

## List of Publications by Year in descending order

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278  
papers

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citations

28274

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40979

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282  
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282  
docs citations

282  
times ranked

8524  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the Optical Properties of a MoSe <sub>2</sub> Monolayer Using Nanoscale Plasmonic Antennas. Nano Letters, 2022, 22, 561-569.	9.1	11
2	Trions in $\text{MoS}_2$ are quantum superpositions of intra- and intervalley spin states. Physical Review B, 2022, 105, .		
3	Electronically Tunable Transparent Conductive Thin Films for Scalable Integration of 2D Materials with Passive 2D-3D Interfaces. Advanced Functional Materials, 2022, 32, .	14.9	3
4	Electrical control of orbital and vibrational interlayer coupling in bi- and trilayer $\text{MoS}_2$ . Physical Review Materials, 2022, 6, .	2.4	4
5	Stimulated Generation of Indistinguishable Single Photons from a Quantum Ladder System. Physical Review Letters, 2022, 128, 093603.	7.8	20
6	Automated, deep reactive ion etching free fiber coupling to nanophotonic devices. , 2022, , .		2
7	Electronically Tunable Transparent Conductive Thin Films for Scalable Integration of 2D Materials with Passive 2D-3D Interfaces (Adv. Funct. Mater. 21/2022). Advanced Functional Materials, 2022, 32, .	14.9	0
8	Nonlocal Exciton-Photon Interactions in Hybrid High-Q Beam Nanocavities with Encapsulated $\text{MoS}_2$ Monolayers. Physical Review Letters, 2022, 128, .	7.8	6
9	Unveiling the Zero-Phonon Line of the Boron Vacancy Center by Cavity-Enhanced Emission. Nano Letters, 2022, 22, 5137-5142.	9.1	18
10	Gate-Switchable Arrays of Quantum Light Emitters in Contacted Monolayer MoSe <sub>2</sub> van der Waals Heterodevices. Nano Letters, 2021, 21, 1040-1046.	9.1	36
11	High-resolution spectroscopy of a quantum dot driven bichromatically by two strong coherent fields. Physical Review Research, 2021, 3, .	3.6	8
12	3D Deep Learning Enables Accurate Layer Mapping of 2D Materials. ACS Nano, 2021, 15, 3139-3151.	14.6	25
13	Growth dynamics and compositional structure in periodic InAsSb nanowire arrays on Si (111) grown by selective area molecular beam epitaxy. Nanotechnology, 2021, 32, 135604.	2.6	10
14	Charged Exciton Kinetics in Monolayer MoSe <sub>2</sub> near Ferroelectric Domain Walls in Periodically Poled LiNbO <sub>3</sub> . Nano Letters, 2021, 21, 959-966.	9.1	7
15	Optomechanical wave mixing by a single quantum dot. Optica, 2021, 8, 291.	9.3	24
16	Controlling exciton many-body states by the electric-field effect in monolayer $\text{MoS}_2$ . Physical Review Research, 2021, 3, .		
17	Bright Electrically Controllable Quantum-Dot-Molecule Devices Fabricated by In Situ Electron-Beam Lithography. Advanced Quantum Technologies, 2021, 4, 2100002.	3.9	12
18	Low-threshold strain-compensated InGaAs/(In,Al)GaAs multi-quantum well nanowire lasers emitting near 1.3 $\mu\text{m}$ at room temperature. Applied Physics Letters, 2021, 118, .	3.3	18

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19	Manganese doping for enhanced magnetic brightening and circular polarization control of dark excitons in paramagnetic layered hybrid metal-halide perovskites. <i>Nature Communications</i> , 2021, 12, 3489.	12.8	38
20	Efficient Optomechanical Mode-Shape Mapping of Micromechanical Devices. <i>Micromachines</i> , 2021, 12, 880.	2.9	2
21	Resonance-fluorescence spectral dynamics of an acoustically modulated quantum dot. <i>Physical Review Research</i> , 2021, 3, .	3.6	12
22	Engineering the Luminescence and Generation of Individual Defect Emitters in Atomically Thin MoS <sub>2</sub> . <i>ACS Photonics</i> , 2021, 8, 669-677.	6.6	48
23	Raman spectrum of Janus transition metal dichalcogenide monolayers WSSe and MoSSe. <i>Physical Review B</i> , 2021, 103, .	3.2	63
24	Epitaxial type-I and type-II InAs-AlAsSb core-shell nanowires on silicon. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	5
25	Purcell enhanced coupling of nanowire quantum emitters to silicon photonic waveguides. <i>Optics Express</i> , 2021, 29, 43068.	3.4	6
26	Quantum Confinement Enhanced Thermoelectric Properties in Modulation Doped GaAs-AlGaAs Core-Shell Nanowires. <i>Advanced Materials</i> , 2020, 32, e1905458.	21.0	19
27	Origin of Antibunching in Resonance Fluorescence. <i>Physical Review Letters</i> , 2020, 125, 170402.	7.8	22
28	Ultrathin catalyst-free InAs nanowires on silicon with distinct 1D sub-band transport properties. <i>Nanoscale</i> , 2020, 12, 21857-21868.	5.6	17
29	Crux of Using the Cascaded Emission of a Three-Level Quantum Ladder System to Generate Indistinguishable Photons. <i>Physical Review Letters</i> , 2020, 125, 233605.	7.8	34
30	Time-domain photocurrent spectroscopy based on a common-path birefringent interferometer. <i>Review of Scientific Instruments</i> , 2020, 91, 123101.	1.3	4
31	Atomistic defects as single-photon emitters in atomically thin MoS <sub>2</sub> . <i>Applied Physics Letters</i> , 2020, 117, .	3.3	51
32	Discrete interactions between a few interlayer excitons trapped at a MoSe <sub>2</sub> -WSe <sub>2</sub> heterointerface. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	7.9	54
33	Demonstration of <i>n</i> / <i>i</i> -type behavior in catalyst-free Si-doped GaAs nanowires grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	14
34	Direct-bandgap emission from hexagonal Ge and SiGe alloys. <i>Nature</i> , 2020, 580, 205-209.	27.8	231
35	Line-Scan Hyperspectral Imaging Microscopy with Linear Unmixing for Automated Two-Dimensional Crystals Identification. <i>ACS Photonics</i> , 2020, 7, 1216-1225.	6.6	13
36	Signatures of a degenerate many-body state of interlayer excitons in a van der Waals heterostack. <i>Physical Review Research</i> , 2020, 2, .	3.6	42

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37	Ultracompact Photodetection in Atomically Thin MoSe <sub>2</sub> . ACS Photonics, 2019, 6, 1902-1909.	6.6	15
38	Optical absorption of composition-tunable InGaAs nanowire arrays. Nanotechnology, 2019, 30, 495703.	2.6	11
39	Site-selectively generated photon emitters in monolayer MoS <sub>2</sub> via local helium ion irradiation. Nature Communications, 2019, 10, 2755.	12.8	132
40	Optimized waveguide coupling of an integrated III-V nanowire laser on silicon. Journal of Applied Physics, 2019, 125, .	2.5	10
41	Breakdown of Corner States and Carrier Localization by Monolayer Fluctuations in Radial Nanowire Quantum Wells. Nano Letters, 2019, 19, 3336-3343.	9.1	14
42	Resonance Fluorescence of GaAs Quantum Dots with Near-Unity Photon Indistinguishability. Nano Letters, 2019, 19, 2404-2410.	9.1	63
43	Impact of substrate induced band tail states on the electronic and optical properties of MoS <sub>2</sub> . Applied Physics Letters, 2019, 115, .	3.3	24
44	Nanoscale mapping of carrier recombination in GaAs/AlGaAs core-multishell nanowires by cathodoluminescence imaging in a scanning transmission electron microscope. Applied Physics Letters, 2019, 115, 243102.	3.3	4
45	Toward Plasmonic Tunnel Gaps for Nanoscale Photoemission Currents by On-Chip Laser Ablation. Nano Letters, 2019, 19, 1172-1178.	9.1	35
46	Tuning Lasing Emission towards Long Wavelengths in GaAs-(In,Al)GaAs Core-Multishell Nanowires. , 2019, , .		0
47	Waveguide Coupling of an Integrated Nanowire Laser on Silicon with Enhanced End-Facet Reflectivity. , 2019, , .		0
48	Carrier concentration dependent photoluminescence properties of Si-doped InAs nanowires. Applied Physics Letters, 2018, 112, .	3.3	14
49	Correlated Chemical and Electrically Active Dopant Analysis in Catalyst-Free Si-Doped InAs Nanowires. ACS Nano, 2018, 12, 1603-1610.	14.6	13
50	Pulsed Rabi oscillations in quantum two-level systems: beyond the area theorem. Quantum Science and Technology, 2018, 3, 014006.	5.8	29
51	Slow light enhanced gas sensing in photonic crystals. Optical Materials, 2018, 76, 106-110.	3.6	31
52	Carrier trapping and activation at short-period wurtzite/zinc-blende stacking sequences in polytypic InAs nanowires. Physical Review B, 2018, 97, .	3.2	10
53	The Dielectric Impact of Layer Distances on Exciton and Trion Binding Energies in van der Waals Heterostructures. Nano Letters, 2018, 18, 2725-2732.	9.1	113
54	Robust valley polarization of helium ion modified atomically thin MoS <sub>2</sub> . 2D Materials, 2018, 5, 011007.	4.4	55

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55	Tuning Lasing Emission toward Long Wavelengths in GaAs-(In,Al)GaAs Core-Shell Nanowires. Nano Letters, 2018, 18, 6292-6300.	9.1	43
56	Quantum dot single-photon sources with ultra-low multi-photon probability. Npj Quantum Information, 2018, 4, .	6.7	114
57	He-Ion Microscopy as a High-Resolution Probe for Complex Quantum Heterostructures in Core-Shell Nanowires. Nano Letters, 2018, 18, 3911-3919.	9.1	13
58	GaN Nanowire Arrays for Efficient Optical Read-Out and Optoelectronic Control of NV Centers in Diamond. Nano Letters, 2018, 18, 3651-3660.	9.1	12
59	Bandgap Engineering of Graphene Nanoribbons by Control over Structural Distortion. Journal of the American Chemical Society, 2018, 140, 7803-7809.	13.7	68
60	Quantum dot single photon sources with ultra-low multi-photon error rate. , 2018, , .		1
61	Coupling Single Photons from Discrete Quantum Emitters in WSe <sub>2</sub> to Lithographically Defined Plasmonic Slot Waveguides. Nano Letters, 2018, 18, 6812-6819.	9.1	53
62	Long-lived Quantum Emitters in hBN-WSe <sub>2</sub> Van-Der-Waals Heterostructures. , 2018, , .		0
63	Two-photon bundles from a single two-level system. , 2018, , .		0
64	Silicon Waveguide Coupled III-V Nanowire Lasers with Epitaxial Gain Control. , 2018, , .		0
65	Enhanced optical activity of atomically thin MoSe <sub>2</sub> proximal to nanoscale plasmonic slot-waveguides. 2D Materials, 2017, 4, 021011.	4.4	13
66	Signatures of two-photon pulses from a quantum two-level system. Nature Physics, 2017, 13, 649-654.	16.7	53
67	CW and ultrafast properties of GaAs-AlGaAs core-shell nanowire lasers on silicon (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 1		0
68	Enhanced THz emission efficiency of composition-tunable InGaAs nanowire arrays. Applied Physics Letters, 2017, 110, .	3.3	8
69	GaAs-AlGaAs core-shell nanowire lasers on silicon: invited review. Semiconductor Science and Technology, 2017, 32, 053001.	2.0	48
70	Electric-Field Switchable Second-Harmonic Generation in Bilayer MoS <sub>2</sub> by Inversion Symmetry Breaking. Nano Letters, 2017, 17, 392-398.	9.1	71
71	Direct exciton emission from atomically thin transition metal dichalcogenide heterostructures near the lifetime limit. Scientific Reports, 2017, 7, 12383.	3.3	122
72	Nanometer-scale Resolved Cathodoluminescence Imaging: New Insights into GaAs/AlGaAs Core-shell Nanowire Lasers. Microscopy and Microanalysis, 2017, 23, 1470-1471.	0.4	0

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73	Direct Coupling of Coherent Emission from Site-Selectively Grown III-V Nanowire Lasers into Proximal Silicon Waveguides. ACS Photonics, 2017, 4, 2537-2543.	6.6	34
74	Quantum Transport and Sub-Band Structure of Modulation-Doped GaAs/AlAs Core-Superlattice Nanowires. Nano Letters, 2017, 17, 4886-4893.	9.1	18
75	A few-emitter solid-state multi-exciton laser. Scientific Reports, 2017, 7, 7420.	3.3	10
76	Long-term mutual phase locking of picosecond pulse pairs generated by a semiconductor nanowire laser. Nature Communications, 2017, 8, 15521.	12.8	14
77	Optically-probing spin qubit coherence without coherent control (Conference Presentation). , 2017, , .		0
78	Metamorphic plasmonic nanoantennas for self-enhanced nonlinear light generation. Optica, 2016, 3, 1453.	9.3	8
79	Widely tunable alloy composition and crystal structure in catalyst-free InGaAs nanowire arrays grown by selective area molecular beam epitaxy. Applied Physics Letters, 2016, 108, .	3.3	27
80	Suppression of alloy fluctuations in GaAs-AlGaAs core-shell nanowires. Applied Physics Letters, 2016, 109, .	3.3	17
81	Continuous wave lasing from individual GaAs-AlGaAs core-shell nanowires. Applied Physics Letters, 2016, 108, .	3.3	24
82	Surface acoustic wave regulated single photon emission from a coupled quantum dot-nanocavity system. Applied Physics Letters, 2016, 109, .	3.3	33
83	Coaxial GaAs-AlGaAs core-multishell nanowire lasers with epitaxial gain control. Applied Physics Letters, 2016, 108, .	3.3	59
84	The Native Material Limit of Electron and Hole Mobilities in Semiconductor Nanowires. ACS Nano, 2016, 10, 4942-4953.	14.6	26
85	Emission redistribution from a quantum dot-bowtie nanoantenna. Journal of Nanophotonics, 2016, 10, 033509.	1.0	11
86	Integrated superconducting detectors on semiconductors for quantum optics applications. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	14
87	Advances in semiconductor nanowire lasers. , 2016, , .		0
88	Direct Measurements of Fermi Level Pinning at the Surface of Intrinsically n-Type InGaAs Nanowires. Nano Letters, 2016, 16, 5135-5142.	9.1	60
89	Microscopic nature of crystal phase quantum dots in ultrathin GaAs nanowires by nanoscale luminescence characterization. New Journal of Physics, 2016, 18, 063009.	2.9	12
90	Quantum confinement phenomena in ultrathin GaAs nanowires. , 2016, , .		0

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91	Surface plasmon resonance spectroscopy of single bowtie nano-antennas using a differential reflectivity method. Scientific Reports, 2016, 6, 23203.	3.3	49
92	Optical control of nonlinearly dressed states in an individual quantum dot. Physical Review B, 2016, 93, .	3.2	16
93	Coulomb Mediated Hybridization of Excitons in Coupled Quantum Dots. Physical Review Letters, 2016, 116, 077401.	7.8	25
94	Quantum Effects in Higher-Order Correlators of a Quantum-Dot Spin Qubit. Physical Review Letters, 2016, 117, 027402.	7.8	30
95	Laser intensity effects in carrier-envelope phase-tagged time of flight-photoemission electron microscopy. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	6
96	Monolithically Integrated High- $\hat{I}^2$ Nanowire Lasers on Silicon. Nano Letters, 2016, 16, 152-156.	9.1	112
97	Stark Effect Spectroscopy of Mono- and Few-Layer MoS <sub>2</sub> . Nano Letters, 2016, 16, 1554-1559.	9.1	80
98	Controlled tunneling-induced dephasing of Rabi rotations for high-fidelity hole spin initialization. Physical Review B, 2015, 92, .	3.2	11
99	Linear and non-linear response of lithographically defined plasmonic nanoantennas. , 2015, , .		0
100	Strong transmittance above the light line in mid-infrared two-dimensional photonic crystals. Journal of Applied Physics, 2015, 117, 223101.	2.5	3
101	Virtual Proofs of Reality and their Physical Implementation. , 2015, , .		32
102	A 2D Semiconductorâ€“Self-Assembled Monolayer Photoswitchable Diode. Advanced Materials, 2015, 27, 1426-1431.	21.0	52
103	Tunable Quantum Confinement in Ultrathin, Optically Active Semiconductor Nanowires Via Reverseâ€“Reaction Growth. Advanced Materials, 2015, 27, 2195-2202.	21.0	50
104	Alloy Fluctuations Act as Quantum Dot-like Emitters in GaAs-AlGaAs Coreâ€“Shell Nanowires. ACS Nano, 2015, 9, 8335-8343.	14.6	65
105	Towards on-chip generation, routing and detection of non-classical light. , 2015, , .		3
106	On-Chip Generation, Routing, and Detection of Resonance Fluorescence. Nano Letters, 2015, 15, 5208-5213.	9.1	79
107	In situ synthesis of VO <sub>2</sub> for tunable mid-infrared photonic devices. RSC Advances, 2015, 5, 59506-59512.	3.6	6
108	Independent dynamic acousto-mechanical and electrostatic control of individual quantum dots in a LiNbO <sub>3</sub> -GaAs hybrid. Applied Physics Letters, 2015, 106, .	3.3	23

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109	Lattice-Matched InGaAsâ€“InAlAs Coreâ€“Shell Nanowires with Improved Luminescence and Photoresponse Properties. Nano Letters, 2015, 15, 3533-3540.	9.1	46
110	Demonstration of Confined Electron Gas and Steep-Slope Behavior in Delta-Doped GaAs-AlGaAs Coreâ€“Shell Nanowire Transistors. Nano Letters, 2015, 15, 3295-3302.	9.1	60
111	Three-stage decoherence dynamics of an electron spin qubit in an optically active quantum dot. Nature Physics, 2015, 11, 1005-1008.	16.7	96
112	Dynamic acousto-optic control of a strongly coupled photonic molecule. Nature Communications, 2015, 6, 8540.	12.8	50
113	Crystal Phase Quantum Dots in the Ultrathin Core of GaAsâ€“AlGaAs Coreâ€“Shell Nanowires. Nano Letters, 2015, 15, 7544-7551.	9.1	47
114	Photocurrents in a Single InAs Nanowire/Silicon Heterojunction. ACS Nano, 2015, 9, 9849-9858.	14.6	26
115	Ultrafast Photodetection in the Quantum Wells of Single AlGaAs/GaAs-Based Nanowires. Nano Letters, 2015, 15, 6869-6874.	9.1	35
116	Tuning the optical emission of MoS2 nanosheets using proximal photoswitchable azobenzene molecules. Applied Physics Letters, 2014, 105, .	3.3	32
117	Radio frequency occupancy state control of a single nanowire quantum dot. Journal Physics D: Applied Physics, 2014, 47, 394011.	2.8	22
118	Dissipative preparation of the exciton and biexciton in self-assembled quantum dots on picosecond time scales. Physical Review B, 2014, 90, .	3.2	74
119	A carrier relaxation bottleneck probed in single InGaAs quantum dots using integrated superconducting single photon detectors. Applied Physics Letters, 2014, 105, 081107.	3.3	14
120	Valence Band Splitting in Wurtzite InGaAs Nanoneedles Studied by Photoluminescence Excitation Spectroscopy. ACS Nano, 2014, 8, 11440-11446.	14.6	10
121	Highly directed emission from self-assembled quantum dots into guided modes in disordered photonic-crystal waveguides. Physical Review B, 2014, 90, .	3.2	6
122	Emergence of Photoswitchable States in a Grapheneâ€“Azobenzeneâ€“Au Platform. Nano Letters, 2014, 14, 6823-6827.	9.1	40
123	Optical study of lithographically defined, subwavelength plasmonic wires and their coupling to embedded quantum emitters. Nanotechnology, 2014, 25, 075203.	2.6	7
124	Imaging surface plasmon polaritons using proximal self-assembled InGaAs quantum dots. Journal of Applied Physics, 2014, 116, 033101.	2.5	10
125	Optical properties and interparticle coupling of plasmonic bowtie nanoantennas on a semiconducting substrate. Physical Review B, 2014, 90, .	3.2	25
126	Effect of interwire separation on growth kinetics and properties of site-selective GaAs nanowires. Applied Physics Letters, 2014, 105, .	3.3	34



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127	Emitters of N-photon bundles. Nature Photonics, 2014, 8, 550-555.	31.4	136
128	Dynamic Acoustic Control of Individual Optically Active Quantum Dot-like Emission Centers in Heterostructure Nanowires. Nano Letters, 2014, 14, 2256-2264.	9.1	64
129	Laterally self-ordered silicon-germanium islands with optimized confinement properties. Applied Physics Letters, 2013, 103, 063105.	3.3	3
130	Lasing from individual GaAs-AlGaAs core-shell nanowires up to room temperature. Nature Communications, 2013, 4, 2931.	12.8	207
131	Enhanced Luminescence Properties of InAs-InAsP Core-Shell Nanowires. Nano Letters, 2013, 13, 6070-6077.	9.1	73
132	All optical quantum control of a spin-quantum state and ultrafast transduction into an electric current. Scientific Reports, 2013, 3, 1906.	3.3	25
133	High Mobility One- and Two-Dimensional Electron Systems in Nanowire-Based Quantum Heterostructures. Nano Letters, 2013, 13, 6189-6196.	9.1	56
134	Spontaneous Alloy Composition Ordering in GaAs-AlGaAs Core-Shell Nanowires. Nano Letters, 2013, 13, 1522-1527.	9.1	116
135	Optimisation of NbN thin films on GaAs substrates for in-situ single photon detection in structured photonic devices. Journal of Applied Physics, 2013, 113, 143507.	2.5	19
136	Role of microstructure on optical properties in high-uniformity In <sub>x</sub> Ga <sub>1-x</sub> As nanowire arrays: Evidence of a wider wurtzite band gap. Physical Review B, 2013, 87, .	3.2	46
137	Acoustically regulated carrier injection into a single optically active quantum dot. Physical Review B, 2013, 88, .	3.2	41
138	Probing ultrafast carrier tunneling dynamics in individual quantum dots and molecules. Annalen Der Physik, 2013, 525, 49-58.	2.4	15
139	On-chip time resolved detection of quantum dot emission using integrated superconducting single photon detectors. Scientific Reports, 2013, 3, 1901.	3.3	93
140	Probing the trapping and thermal activation dynamics of excitons at single twin defects in GaAs-AlGaAs core-shell nanowires. New Journal of Physics, 2013, 15, 113032.	2.9	30
141	Surface acoustic wave-driven carrier dynamics as a contact-less probe for mobilities of photogenerated carriers in undoped nanowires. , 2013, , .		0
142	A three-dimensional silicon photonic crystal nanocavity with enhanced emission from embedded germanium islands. New Journal of Physics, 2012, 14, 083035.	2.9	11
143	Climbing the Jaynes-Cummings ladder by photon counting. Journal of Nanophotonics, 2012, 6, 061803.	1.0	42
144	Rate-limiting mechanisms in high-temperature growth of catalyst-free InAs nanowires with large thermal stability. Nanotechnology, 2012, 23, 235602.	2.6	37

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145	Universal signatures of lasing in the strong coupling regime. Proceedings of SPIE, 2012, , .	0.8	5
146	A Waveguide-Coupled On-Chip Single-Photon Source. Physical Review X, 2012, 2, .	8.9	115
147	Broadband Purcell enhanced emission dynamics of quantum dots in linear photonic crystal waveguides. Journal of Applied Physics, 2012, 112, .	2.5	19
148	Probing ultrafast charge and spin dynamics in a quantum dot molecule. , 2012, , .		0
149	All optical preparation, storage, and readout of a single spin in an individual quantum dot. Proceedings of SPIE, 2012, , .	0.8	2
150	High compositional homogeneity in In-rich InGaAs nanowire arrays on nanoimprinted SiO <sub>2</sub> /Si (111). Applied Physics Letters, 2012, 101, 043116.	3.3	54
151	Surface acoustic wave controlled charge dynamics in a thin InGaAs quantum well. JETP Letters, 2012, 95, 575-580.	1.4	16
152	Diameter dependent optical emission properties of InAs nanowires grown on Si. Applied Physics Letters, 2012, 101, 053103.	3.3	36
153	Coupling of guided surface plasmon polaritons to proximal self-assembled InGaAs Quantum Dots. Proceedings of SPIE, 2012, , .	0.8	2
154	Quantum dynamics of damped and driven anharmonic oscillators. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1296-1302.	0.8	1
155	Electrical Control of Interdot Electron Tunneling in a Double InGaAs Quantum-Dot Nanostructure. Physical Review Letters, 2012, 108, 197402.	7.8	78
156	High-fidelity optical preparation and coherent Larmor precession of a single hole in an (In,Ga)As quantum dot molecule. Physical Review B, 2012, 85, .	3.2	36
157	Highly nonlinear excitonic Zeeman spin splitting in composition-engineered artificial atoms. Physical Review B, 2012, 85, .	3.2	24
158	Luminescence spectra of quantum dots in microcavities. III. Multiple quantum dots. Physical Review B, 2011, 84, .	3.2	32
159	Directional and Dynamic Modulation of the Optical Emission of an Individual GaAs Nanowire Using Surface Acoustic Waves. Nano Letters, 2011, 11, 1512-1517.	9.1	56
160	Direct measurement of plasmon propagation lengths on lithographically defined metallic waveguides on GaAs. Journal of Applied Physics, 2011, 110, 123106.	2.5	7
161	Absence of vapor-liquid-solid growth during molecular beam epitaxy of self-induced InAs nanowires on Si. Applied Physics Letters, 2011, 98, 123114.	3.3	69
162	Direct Observation of a Noncatalytic Growth Regime for GaAs Nanowires. Nano Letters, 2011, 11, 3848-3854.	9.1	119

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163	Direct observation of metastable hot trions in an individual quantum dot. Physical Review B, 2011, 84, .	3.2	23
164	Strong Photoluminescence Enhancement from Colloidal Quantum Dot Near Silver Nano-Island Films. Journal of Fluorescence, 2011, 21, 539-543.	2.5	4
165	Electrical control of the exciton–biexciton splitting in self-assembled InGaAs quantum dots. Nanotechnology, 2011, 22, 325202.	2.6	23
166	Excited state quantum couplings and optical switching of an artificial molecule. Physical Review B, 2011, 84, .	3.2	17
167	Fabrication of high-Q silicon-based three-dimensional photonic crystal nanocavity and its lasing oscillation with InAs quantum-dot gain. , 2011, , .		1
168	Correlation between emission intensity of self-assembled germanium islands and quality factor of silicon photonic crystal nanocavities. Physical Review B, 2011, 84, .	3.2	12
169	Observation and explanation of strong electrically tunable exciton $g$ factors in composition engineered In(Ga)As quantum dots. Physical Review B, 2011, 83, .	3.2	34
170	Nonresonant feeding of photonic crystal nanocavity modes by quantum dots. Journal of Applied Physics, 2011, 109, 102404.	2.5	12
171	Shape control of quantum dots studied by cross-sectional scanning tunneling microscopy. Journal of Applied Physics, 2011, 109, 102413.	2.5	13
172	Coplanar stripline antenna design for optically detected magnetic resonance on semiconductor quantum dots. Review of Scientific Instruments, 2011, 82, 074707.	1.3	8
173	Ultrafast few-fermion dynamics in single self-assembled InGaAs/GaAs quantum dots. , 2011, , .		0
174	Picosecond Few-Fermion Dynamics of a Single Self-Assembled InGaAs Quantum Dot. , 2011, , .		0
175	Shape Control of QDs Studied by Cross-sectional Scanning Tunneling Microscopy. Journal of the Korean Physical Society, 2011, 58, 1244-1250.	0.7	1
176	Recent progress towards acoustically mediated carrier injection into individual nanostructures for single photon generation. Proceedings of SPIE, 2010, , .	0.8	1
177	Design and realization of low density InAs quantum dots on AlGaInAs lattice matched to InP(001). Journal of Crystal Growth, 2010, 312, 2300-2304.	1.5	4
178	Asymmetric optical nuclear spin pumping in a single uncharged quantum dot. Physical Review B, 2010, 82, .	3.2	10
179	Observation of an electrically tunable exciton $g$ factor in InGaAs/GaAs quantum dots. Applied Physics Letters, 2010, 96, 053113.	3.3	29
180	Optically monitoring electron spin relaxation in a single quantum dot using a spin memory device. Physical Review B, 2010, 82, .	3.2	20

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181	Temporal monitoring of nonresonant feeding of semiconductor nanocavity modes by quantum dot multiexciton transitions. Physical Review B, 2010, 81, .	3.2	50
182	Ultrafast few-fermion optoelectronics in a single self-assembled $\ln\text{GaAs}$ quantum dot. Physical Review B, 2010, 82, .	3.2	25
183	Mutual coupling of two semiconductor quantum dots via an optical nanocavity. Physical Review B, 2010, 82, .	3.2	82
184	An atomically resolved study of InGaAs quantum dot layers grown with an indium flush step. Nanotechnology, 2010, 21, 215705.	2.6	15
185	Enhanced photoluminescence emission from two-dimensional silicon photonic crystal nanocavities. New Journal of Physics, 2010, 12, 053005.	2.9	26
186	Growth kinetics in position-controlled and catalyst-free InAs nanowire arrays on Si(111) grown by selective area molecular beam epitaxy. Journal of Applied Physics, 2010, 108, .	2.5	141
187	Ultrafast Few-Fermion Optoelectronics of a Single Quantum Dot. , 2010, , .		0
188	Cascaded exciton emission of an individual strain-induced quantum dot. Applied Physics Letters, 2009, 95, 083122.	3.3	7
189	Explanation of Photon Correlations in the Far-Off-Resonance Optical Emission from a Quantum-Dot "Cavity System. Physical Review Letters, 2009, 103, 207403.	7.8	182
190	Efficient and selective cavity-resonant excitation for single photon generation. New Journal of Physics, 2009, 11, 013031.	2.9	19
191	Outcoupling of Light Generated in a Monolithic Silicon Photonic Crystal Nanocavity through a Lateral Waveguide. Japanese Journal of Applied Physics, 2009, 48, 062003.	1.5	0
192	Phonon-assisted transitions from quantum dot excitons to cavity photons. Physical Review B, 2009, 80, .	3.2	112
193	Dephasing of Exciton Polaritons in Photoexcited InGaAs Quantum Dots in GaAs Nanocavities. Physical Review Letters, 2009, 103, 087405.	7.8	104
194	Electrical control of spontaneous emission and strong coupling for a single quantum dot. New Journal of Physics, 2009, 11, 023034.	2.9	130
195	Selective optical charge generation, storage, and readout in a single self-assembled quantum dot. Applied Physics Letters, 2009, 94, .	3.3	19
196	Sub-threshold investigation of two coupled photonic crystal cavities. , 2009, , .		0
197	Quantum Dot Charge and Spin Memory Devices. , 2008, , 476-504.		1
198	Investigation of the nonresonant dot-cavity coupling in two-dimensional photonic crystal nanocavities. Physical Review B, 2008, 77, .	3.2	126

#	ARTICLE	IF	CITATIONS
199	Towards an Electro-Optical Driven Single Photon Device. , 2008, , .		0
200	Delivery of photons generated in silicon photonic crystal nano-cavity through lateral waveguide. , 2008, , .		0
201	Tunable single quantum dot nanocavities for cavity QED experiments. Journal of Physics Condensed Matter, 2008, 20, 454209.	1.8	4
202	Silicon photonic crystal nanostructures for refractive index sensing. Applied Physics Letters, 2008, 93, .	3.3	99
203	Charge and spin readout scheme for single self-assembled quantum dots. Physical Review B, 2008, 77, .	3.2	38
204	Highly efficient single-photon emission from single quantum dots within a two-dimensional photonic band-gap. Physical Review B, 2008, 77, .	3.2	41
205	Self-assembly of InAs Quantum Dot Structures on Cleaved Facets. , 2008, , 25-41.		2
206	Electrically probing photonic bandgap phenomena in contacted defect nanocavities. Applied Physics Letters, 2007, 91, 201111.	3.3	21
207	Efficient spatial redistribution of quantum dot spontaneous emission from two-dimensional photonic crystals. Applied Physics Letters, 2007, 91, .	3.3	33
208	Optical characterization of silicon on insulator photonic crystal nanocavities infiltrated with colloidal PbS quantum dots. Applied Physics Letters, 2007, 91, 233111.	3.3	15
209	Observation of extremely slow hole spin relaxation in self-assembled quantum dots. Physical Review B, 2007, 76, .	3.2	194
210	Direct observation of acoustic phonon mediated relaxation between coupled exciton states in a single quantum dot molecule. Physical Review B, 2006, 74, .	3.2	41
211	Optically Probing Spin and Charge Interactions in a Tunable Artificial Molecule. Physical Review Letters, 2006, 97, 076403.	7.8	104
212	Nonlinear optical microscopy of a single self-assembled InGaAs quantum dot. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4009-4012.	0.8	0
213	Nonequilibrium carrier dynamics in self-assembled InGaAs quantum dots. Physica Status Solidi (B): Basic Research, 2006, 243, 2217-2223.	1.5	2
214	Preface: phys. stat. sol. (b) 243/14. Physica Status Solidi (B): Basic Research, 2006, 243, 3575-3575.	1.5	0
215	Guided Self Assembly of InAs Quantum Dots on a Cleaved Facet. Materials Research Society Symposia Proceedings, 2006, 959, 1.	0.1	0
216	Nonlinear optical response of a single self-assembled InGaAs quantum dot: A femtojoule pump-probe experiment. Applied Physics Letters, 2006, 88, 203110.	3.3	16

#	ARTICLE	IF	CITATIONS
217	Nonlinear Optical Microscopy of a Single Self-assembled InGaAs Quantum Dot. , 2006, , .		0
218	Picosecond Spin-Preserving Carrier Capture in InGaAs/GaAs Quantum Dots. , 2006, , 41-44.		0
219	Controlled positioning of self-assembled InAs quantum dots on (110) GaAs. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 26, 72-76.	2.7	8
220	Anomalous Stark shifts in single vertically coupled pairs of InGaAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 26, 302-307.	2.7	6
221	Investigation of cavity modes and direct observation of Purcell enhancement in 2D photonic crystal defect microcavities. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 26, 351-355.	2.7	10
222	Progress towards single spin optoelectronics using quantum dot nanostructures. Solid State Communications, 2005, 135, 591-601.	1.9	42
223	Manipulation of the spontaneous emission dynamics of quantum dots in two-dimensional photonic crystals. Physical Review B, 2005, 71, .	3.2	129
224	Fabrication and investigation of photonic crystal microcavities for solid state quantum optics. , 2005, 5733, 114.		5
225	Direct Observation of Controlled Coupling in an Individual Quantum Dot Molecule. Physical Review Letters, 2005, 94, 057402.	7.8	339
226	Recent advances in exciton-based quantum information processing in quantum dot nanostructures. New Journal of Physics, 2005, 7, 184-184.	2.9	87
227	Spin-preserving ultrafast carrier capture and relaxation in InGaAs quantum dots. Applied Physics Letters, 2005, 87, 153113.	3.3	23
228	Temperature-induced carrier escape processes studied in absorption of individual $\text{In}_x\text{Ga}_{1-x}\text{As}$ quantum dots. Physical Review B, 2004, 69, .	3.2	18
229	Long-range ordered self-assembled InAs quantum dots epitaxially grown on (110) GaAs. Applied Physics Letters, 2004, 85, 4750-4752.	3.3	35
230	Optically programmable electron spin memory using semiconductor quantum dots. Nature, 2004, 432, 81-84.	27.8	858
231	Physics and applications of self-assembled quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2131-2159.	0.8	6
232	Systematic reduction of the permanent exciton dipole for charged excitons in individual self-assembled InGaAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 199-203.	2.7	2
233	Dynamics of optically stored charges in InGaAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 886-891.	2.7	1
234	Redistribution dynamics of optically generated charges in $\text{In}(\text{Ga})\text{As}/\text{GaAs}$ self-assembled quantum dots. Applied Physics Letters, 2004, 85, 2592-2594.	3.3	6

#	ARTICLE	IF	CITATIONS
235	Quantum-confined Stark shifts of charged exciton complexes in quantum dots. <i>Physical Review B</i> , 2004, 70, .	3.2	108
236	Carrier dynamics in red-emitting self-organised InAs/AlGaAs quantum dots with indirect barriers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 17, 109-110.	2.7	2
237	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> , 2003, 17, 37-39.	2.7	1
238	Wavelength selective data storage in InGaAs/GaAs quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 238, 345-348.	1.5	3
239	Theory of vertical and lateral Stark shifts of excitons in quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 1181-1184.	0.8	7
240	Non-linear effects on the power dependent photocurrent of self-assembled InAs/GaAs quantum dots. <i>Microelectronics Journal</i> , 2003, 34, 667-669.	2.0	3
241	Time-resolved measurements and spatial photoluminescence distribution in InAs/AlGaAs quantum dots. <i>Microelectronics Journal</i> , 2003, 34, 747-749.	2.0	4
242	Continuum transitions and phonon coupling in single self-assembled Stranski-Krastanow quantum dots. <i>Physical Review B</i> , 2003, 68, .	3.2	59
243	Wavelength selective charge storage in self-assembled InGaAs/GaAs quantum dots. <i>Applied Physics Letters</i> , 2003, 83, 443-445.	3.3	41
244	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> , 2003, 93, 3524-3528.	2.5	17
245	Manipulation of the homogeneous linewidth of an individual In(Ga)As quantum dot. <i>Physical Review B</i> , 2002, 66, .	3.2	61
246	Wavelength Selective Charge Storage in self-assembled InGaAs-GaAs Quantum Dots. <i>Materials Research Society Symposia Proceedings</i> , 2002, 737, 223.	0.1	1
247	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> , 2002, 66, .	3.2	108
248	Optical properties of single charge tuneable InGaAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 127-130.	2.7	12
249	Optical spectroscopy of self-assembled quantum dots. , 2002, , 85-109.		0
250	Enhanced phonon-assisted absorption in single InAs/GaAs quantum dots. <i>Physical Review B</i> , 2001, 63, .	3.2	90
251	Charged and neutral exciton complexes in individual self-assembled In(Ga)As quantum dots. <i>Physical Review B</i> , 2001, 63, .	3.2	164
252	Electronic properties of InAs/GaAs self-assembled quantum dots studied by photocurrent spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 9, 106-113.	2.7	16

#	ARTICLE	IF	CITATIONS
253	Excitation and Relaxation Mechanisms in Single In(Ga)As Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 224, 373-378.	1.5	4
254	Observation of multicharged excitons and biexcitons in a single InGaAs quantum dot. <i>Physical Review B</i> , 2001, 63, .	3.2	142
255	Optically-induced charge storage in self-assembled InAs quantum dots. <i>Thin Solid Films</i> , 2000, 380, 192-194.	1.8	1
256	InAs-GaAs self-assembled quantum dot lasers: physical processes and device characteristics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 489-493.	2.7	3
257	Modal gain and lasing states in InAs/GaAs self-organized quantum dot lasers. <i>Journal of Applied Physics</i> , 2000, 87, 615-617.	2.5	18
258	Electric-field-dependent carrier capture and escape in self-assembled InAs/GaAs quantum dots. <i>Applied Physics Letters</i> , 2000, 77, 4344-4346.	3.3	86
259	Photocurrent spectroscopy of InAs/GaAs self-assembled quantum dots. <i>Physical Review B</i> , 2000, 62, 16784-16791.	3.2	80
260	Inverted Electron-Hole Alignment in InAs-GaAs Self-Assembled Quantum Dots. <i>Physical Review Letters</i> , 2000, 84, 733-736.	7.8	467
261	Optically Induced Persistent Charge Storage Effects in Self Assembled InAs Quantum Dots. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 531-534.	1.5	4
262	Resonant $\Gamma$ - $X$ tunneling in GaAs/AlAs/GaAs single barrier heterostructures at zero and elevated magnetic field. <i>Superlattices and Microstructures</i> , 1998, 23, 513-519.	3.1	4
263	Role of the $X$ minimum in transport through AlAs single-barrier structures. <i>Physical Review B</i> , 1998, 58, 10619-10628.	3.2	24
264	Electrical detection of optically induced charge storage in self-assembled InAs quantum dots. <i>Applied Physics Letters</i> , 1998, 73, 2618-2620.	3.3	173
265	Voltage-controlled sharp-line electroluminescence in GaAs-AlAs double-barrier resonant-tunneling structures. <i>Physical Review B</i> , 1998, 58, R4242-R4245.	3.2	6
266	Determination of intervalley scattering times in GaAs from electroluminescence spectroscopy of single barrier tunneling devices. <i>Applied Physics Letters</i> , 1997, 70, 622-624.	3.3	4
267	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> , 1997, 204, 215-222.	1.5	1
268	The role of higher energy bands in hot carrier transport investigated by electroluminescence spectroscopy. <i>Superlattices and Microstructures</i> , 1997, 22, 199-202.	3.1	0
269	Experimental determination of $\Gamma$ - $X$ intervalley transfer mechanisms in GaAs/AlAs heterostructures. <i>Physical Review B</i> , 1996, 54, R8329-R8332.	3.2	68
270	Development of a multilayer thin-film solar control windshield. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996, 14, 739-746.	2.1	14



#	ARTICLE	IF	CITATIONS
271	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> , 1996, 54, 4472-4475.	3.2	4
272	Resonant tunneling magnetotunneling in GaAs-AlAs-GaAs heterostructures. <i>Physical Review B</i> , 1996, 54, R5251-R5254.	3.2	16
273	Electroluminescence spectroscopy in a high magnetic field of the ballistic-electron energy distribution in single-barrier heterostructures. <i>Physical Review B</i> , 1995, 51, 5562-5565.	3.2	19
274	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> , 1994, 12, 1528-1534.	2.1	8
275	Observation of ballistic transport in double-barrier resonant-tunneling structures by electroluminescence spectroscopy. <i>Physical Review B</i> , 1994, 50, 4885-4888.	3.2	11
276	Magneto-optical studies of ballistic electron transport in single barrier heterostructures. <i>Superlattices and Microstructures</i> , 1994, 15, 373-376.	3.1	0
277	Level-Crossing 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 Letters</i> , 1981, 46, 1472-1475.	7.8	24
278	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> , 1981, 24, 1323-1332.	3.2	17