

Tobias Heindel

List of Publications by Citations

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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.

65
papers

1,905
citations

24
h-index

42
g-index

94
ext. papers

2,257
ext. citations

4
avg, IF

4.49
L-index

#	Paper	IF	Citations
65	Highly indistinguishable photons from deterministic quantum-dot microlenses utilizing three-dimensional in situ electron-beam lithography. <i>Nature Communications</i> , 2015 , 6, 7662	17.4	201
64	Electrically driven quantum dot-micropillar single photon source with 34% overall efficiency. <i>Applied Physics Letters</i> , 2010 , 96, 011107	3.4	148
63	Exploring Dephasing of a Solid-State Quantum Emitter via Time- and Temperature-Dependent Hong-Ou-Mandel Experiments. <i>Physical Review Letters</i> , 2016 , 116, 033601	7.4	115
62	Single photon emission from a site-controlled quantum dot-micropillar cavity system. <i>Applied Physics Letters</i> , 2009 , 94, 111111	3.4	78
61	Low threshold electrically pumped quantum dot-micropillar lasers. <i>Applied Physics Letters</i> , 2008 , 93, 061104	3.4	76
60	In situ electron-beam lithography of deterministic single-quantum-dot mesa-structures using low-temperature cathodoluminescence spectroscopy. <i>Applied Physics Letters</i> , 2013 , 102, 251113	3.4	71
59	Single photon emission from positioned GaAs/AlGaAs photonic nanowires. <i>Applied Physics Letters</i> , 2010 , 96, 211117	3.4	67
58	Single site-controlled In(Ga)As/GaAs quantum dots: growth, properties and device integration. <i>Nanotechnology</i> , 2009 , 20, 434012	3.4	65
57	Quantum key distribution using quantum dot single-photon emitting diodes in the red and near infrared spectral range. <i>New Journal of Physics</i> , 2012 , 14, 083001	2.9	63
56	Demonstration of strong coupling via electro-optical tuning in high-quality QD-micropillar systems. <i>Optics Express</i> , 2008 , 16, 15006-12	3.3	63
55	Deterministic Integration of Quantum Dots into on-Chip Multimode Interference Beamsplitters Using in Situ Electron Beam Lithography. <i>Nano Letters</i> , 2018 , 18, 2336-2342	11.5	61
54	An electrically driven cavity-enhanced source of indistinguishable photons with 61% overall efficiency. <i>APL Photonics</i> , 2016 , 1, 011301	5.2	50
53	A bright triggered twin-photon source in the solid state. <i>Nature Communications</i> , 2017 , 8, 14870	17.4	48
52	A stand-alone fiber-coupled single-photon source. <i>Scientific Reports</i> , 2018 , 8, 1340	4.9	46
51	Single Quantum Dot with Microlens and 3D-Printed Micro-objective as Integrated Bright Single-Photon Source. <i>ACS Photonics</i> , 2017 , 4, 1327-1332	6.3	43
50	Microcavity enhanced single photon emission from an electrically driven site-controlled quantum dot. <i>Applied Physics Letters</i> , 2012 , 100, 091108	3.4	43
49	Single-photon emission at a rate of 143 MHz from a deterministic quantum-dot microlens triggered by a mode-locked vertical-external-cavity surface-emitting laser. <i>Applied Physics Letters</i> , 2015 , 107, 041105	3.4	42

48	Electrically driven single photon source based on a site-controlled quantum dot with self-aligned current injection. <i>Applied Physics Letters</i> , 2012 , 101, 211119	3.4	36
47	Quantum efficiency and oscillator strength of site-controlled InAs quantum dots. <i>Applied Physics Letters</i> , 2010 , 96, 151102	3.4	29
46	Free space quantum key distribution over 500 meters using electrically driven quantum dot single-photon sources—proof of principle experiment. <i>New Journal of Physics</i> , 2014 , 16, 043003	2.9	28
45	Whispering gallery mode lasing in electrically driven quantum dot micropillars. <i>Applied Physics Letters</i> , 2010 , 97, 101108	3.4	27
44	Nonlinear photoluminescence spectra from a quantum-dot-cavity system: Interplay of pump-induced stimulated emission and anharmonic cavity QED. <i>Physical Review B</i> , 2010 , 81,	3.3	27
43	Generating single photons at gigahertz modulation-speed using electrically controlled quantum dot microlenses. <i>Applied Physics Letters</i> , 2016 , 108, 021104	3.4	26
42	Optimized designs for telecom-wavelength quantum light sources based on hybrid circular Bragg gratings. <i>Optics Express</i> , 2019 , 27, 36824-36837	3.3	24
41	Two-photon interference from remote deterministic quantum dot microlenses. <i>Applied Physics Letters</i> , 2017 , 110, 011104	3.4	23
40	Deterministically fabricated solid-state quantum-light sources. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 153003	1.8	23
39	The role of optical excitation power on the emission spectra of a strongly coupled quantum dot-micropillar system. <i>Optics Express</i> , 2009 , 17, 12821-8	3.3	23
38	Electrically Tunable Single-Photon Source Triggered by a Monolithically Integrated Quantum Dot Microlaser. <i>ACS Photonics</i> , 2017 , 4, 790-794	6.3	22
37	Photon-Number-Resolving Transition-Edge Sensors for the Metrology of Quantum Light Sources. <i>Journal of Low Temperature Physics</i> , 2018 , 193, 1243-1250	1.3	22
36	Deterministically fabricated spectrally-tunable quantum dot based single-photon source. <i>Optical Materials Express</i> , 2020 , 10, 76	2.6	20
35	Operating single quantum emitters with a compact Stirling cryocooler. <i>Review of Scientific Instruments</i> , 2015 , 86, 013113	1.7	19
34	Bright Single-Photon Sources Based on Anti-Reflection Coated Deterministic Quantum Dot Microlenses. <i>Technologies</i> , 2016 , 4, 1	2.4	19
33	Accessing the dark exciton spin in deterministic quantum-dot microlenses. <i>APL Photonics</i> , 2017 , 2, 121303	3.2	18
32	A Pulsed Nonclassical Light Source Driven by an Integrated Electrically Triggered Quantum Dot Microlaser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 681-689	3.8	17
31	All-optical depletion of dark excitons from a semiconductor quantum dot. <i>Applied Physics Letters</i> , 2015 , 106, 193101	3.4	17

30	Tools for the performance optimization of single-photon quantum key distribution. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	17
29	Deterministically fabricated quantum dot single-photon source emitting indistinguishable photons in the telecom O-band. <i>Applied Physics Letters</i> , 2020 , 116, 231104	3.4	17
28	Efficient single-photon source based on a deterministically fabricated single quantum dot - microstructure with backside gold mirror. <i>Applied Physics Letters</i> , 2017 , 111, 011106	3.4	16
27	Advanced in-situ electron-beam lithography for deterministic nanophotonic device processing. <i>Review of Scientific Instruments</i> , 2015 , 86, 073903	1.7	16
26	Strong light-matter coupling in the presence of lasing. <i>Physical Review A</i> , 2017 , 96,	2.6	15
25	Quantum metrology of solid-state single-photon sources using photon-number-resolving detectors. <i>New Journal of Physics</i> , 2019 , 21, 035007	2.9	13
24	On-chip optoelectronic feedback in a micropillar laser-detector assembly. <i>Optica</i> , 2017 , 4, 303	8.6	12
23	Electrically Driven Quantum Dot Micropillar Light Sources. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011 , 17, 1670-1680	3.8	12
22	Correlations between axial and lateral emission of coupled quantum dot micropillar cavities. <i>Physical Review B</i> , 2015 , 91,	3.3	11
21	Enhancing the photon-extraction efficiency of site-controlled quantum dots by deterministically fabricated microlenses. <i>Optics Communications</i> , 2018 , 413, 162-166	2	11
20	Site-controlled In(Ga)As/GaAs quantum dots for integration into optically and electrically operated devices. <i>Journal of Crystal Growth</i> , 2011 , 323, 194-197	1.6	11
19	Quantum Communication Using Semiconductor Quantum Dots. <i>Advanced Quantum Technologies</i> , 2017 , 1, 011001	1.3	9
18	Micropillars with a controlled number of site-controlled quantum dots. <i>Applied Physics Letters</i> , 2018 , 112, 071101	3.4	7
17	On-chip light detection using monolithically integrated quantum dot micropillars. <i>Applied Physics Letters</i> , 2016 , 108, 081110	3.4	7
16	Single-Photon Sources Based on Deterministic Quantum-Dot Microlenses. <i>Nano-optics and Nanophotonics</i> , 2017 , 199-232	0	5
15	Radiometric characterization of a triggered narrow-bandwidth single-photon source and its use for the calibration of silicon single-photon avalanche detectors. <i>Metrologia</i> , 2020 , 57, 055001	2.1	4
14	Controlling the gain contribution of background emitters in few-quantum-dot microlasers. <i>New Journal of Physics</i> , 2018 , 20, 023036	2.9	3
13	Status and future prospects of laser fusion and high power laser applications. <i>Journal of Physics: Conference Series</i> , 2010 , 244, 012005	0.3	2

12	Highly efficient electrically triggered quantum dot micropillar single photon source. <i>Journal of Physics: Conference Series</i> , 2010 , 245, 012005	0.3	2
11	A quantum key distribution testbed using a plug&play telecom-wavelength single-photon source. <i>Applied Physics Reviews</i> , 2022 , 9, 011412	17.3	2
10	Stressor-Induced Site Control of Quantum Dots for Single-Photon Sources. <i>Springer Series in Solid-state Sciences</i> , 2020 , 53-90	0.4	2
9	Cesium-Vapor-Based Delay of Single Photons Emitted by Deterministically Fabricated Quantum Dot Microlenses. <i>Advanced Quantum Technologies</i> , 2020 , 3, 1900071	4.3	2
8	Fiber-pigtail quantum-dot cavity-enhanced light emitting diodes. <i>Applied Physics Letters</i> , 2021 , 119, 131104	3.4	2
7	Swing-Up of Quantum Emitter Population Using Detuned Pulses. <i>PRX Quantum</i> , 2021 , 2,	6.1	2
6	Deterministic Integration of Quantum Dots into On-Chip Multi-Mode Interference Couplers Via in-Situ Electron Beam Lithography 2019 ,		1
5	Hybrid microcavity for superminiature single quantum dot based emitters. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2017 , 53, 178-183	0.6	1
4	Cavity quantum electrodynamics studies with site-controlled InGaAs quantum dots integrated into high quality microcavities 2011 ,		1
3	Deterministic Quantum Devices for Optical Quantum Communication. <i>Springer Series in Solid-state Sciences</i> , 2020 , 285-359	0.4	1
2	Subminiature emitters based on a single (111) In(Ga)As quantum dot and hybrid microcavity. <i>Semiconductors</i> , 2017 , 51, 1399-1402	0.7	
1	⌘⌘⌘⌘(111) In(Ga)As ⌘⌘⌘ ⌘⌘Fizika I Tekhnika Poluprovodnikov, 2017 , 51, 1451	0	