

Sven Hofling

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7197667/sven-hofling-publications-by-citations.pdf>

Version: 2024-04-27

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.

571
papers

15,658
citations

59
h-index

102
g-index

682
ext. papers

18,833
ext. citations

5.6
avg, IF

6.55
L-index

#	Paper	IF	Citations
571	On-Demand Single Photons with High Extraction Efficiency and Near-Unity Indistinguishability from a Resonantly Driven Quantum Dot in a Micropillar. <i>Physical Review Letters</i> , 2016 , 116, 020401	7.4	507
570	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-3	3.8	442
569	Quantum-dot spin-photon entanglement via frequency downconversion to telecom wavelength. <i>Nature</i> , 2012 , 491, 421-5	50.4	345
568	On-demand semiconductor single-photon source with near-unity indistinguishability. <i>Nature Nanotechnology</i> , 2013 , 8, 213-7	28.7	343
567	An electrically pumped polariton laser. <i>Nature</i> , 2013 , 497, 348-52	50.4	325
566	Observation of non-Hermitian degeneracies in a chaotic exciton-polariton billiard. <i>Nature</i> , 2015 , 526, 554-8	50.4	281
565	AlAs/GaAs micropillar cavities with quality factors exceeding 150.000. <i>Applied Physics Letters</i> , 2007 , 90, 251109	3.4	248
564	High-efficiency multiphoton boson sampling. <i>Nature Photonics</i> , 2017 , 11, 361-365	33.9	247
563	Ultrafast optical spin echo in a single quantum dot. <i>Nature Photonics</i> , 2010 , 4, 367-370	33.9	244
562	Exciton-polariton topological insulator. <i>Nature</i> , 2018 , 562, 552-556	50.4	222
561	Observation of Bogoliubov excitations in exciton-polariton condensates. <i>Nature Physics</i> , 2008 , 4, 700-705	56.2	212
560	Waveguide superconducting single-photon detectors for integrated quantum photonic circuits. <i>Applied Physics Letters</i> , 2011 , 99, 181110	3.4	193
559	Ultrafast coherent control and suppressed nuclear feedback of a single quantum dot hole qubit. <i>Nature Physics</i> , 2011 , 7, 872-878	16.2	188
558	Single vortex-antivortex pair in an exciton-polariton condensate. <i>Nature Physics</i> , 2011 , 7, 129-133	16.2	168
557	Direct observation of correlations between individual photon emission events of a microcavity laser. <i>Nature</i> , 2009 , 460, 245-9	50.4	167
556	Interband cascade lasers. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 123001	3	159
555	Waveguide Nanowire Superconducting Single-Photon Detectors Fabricated on GaAs and the Study of Their Optical Properties. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 1-10	3.8	157

554	Two-dimensional semiconductors in the regime of strong light-matter coupling. <i>Nature Communications</i> , 2018 , 9, 2695	17.4	157
553	Boson Sampling with 20 Input Photons and a 60-Mode Interferometer in a 10^{14} -Dimensional Hilbert Space. <i>Physical Review Letters</i> , 2019 , 123, 250503	7.4	155
552	Room-temperature Tamm-plasmon exciton-polaritons with a WSe monolayer. <i>Nature Communications</i> , 2016 , 7, 13328	17.4	154
551	Electrically driven quantum dot-micropillar single photon source with 34% overall efficiency. <i>Applied Physics Letters</i> , 2010 , 96, 011107	3.4	148
550	Non-resonant dot-cavity coupling and its potential for resonant single-quantum-dot spectroscopy. <i>Nature Photonics</i> , 2009 , 3, 724-728	33.9	147
549	Towards optimal single-photon sources from polarized microcavities. <i>Nature Photonics</i> , 2019 , 13, 770-775	33.9	141
548	An exciton-polariton laser based on biologically produced fluorescent protein. <i>Science Advances</i> , 2016 , 2, e1600666	14.3	128
547	On-Demand Semiconductor Source of Entangled Photons Which Simultaneously Has High Fidelity, Efficiency, and Indistinguishability. <i>Physical Review Letters</i> , 2019 , 122, 113602	7.4	124
546	Dynamical d-wave condensation of exciton-polaritons in a two-dimensional square-lattice potential. <i>Nature Physics</i> , 2011 , 7, 681-686	16.2	122
545	Highly indistinguishable on-demand resonance fluorescence photons from a deterministic quantum dot micropillar device with 74% extraction efficiency. <i>Optics Express</i> , 2016 , 24, 8539-46	3.3	112
544	GaAs integrated quantum photonics: Towards compact and multi-functional quantum photonic integrated circuits. <i>Laser and Photonics Reviews</i> , 2016 , 10, 870-894	8.3	112
543	Electrically driven high-Q quantum dot-micropillar cavities. <i>Applied Physics Letters</i> , 2008 , 92, 091107	3.4	111
542	Up on the Jaynes-Cummings ladder of a quantum-dot/microcavity system. <i>Nature Materials</i> , 2010 , 9, 304-8	27	110
541	Near-Transform-Limited Single Photons from an Efficient Solid-State Quantum Emitter. <i>Physical Review Letters</i> , 2016 , 116, 213601	7.4	108
540	Exciton-polariton trapping and potential landscape engineering. <i>Reports on Progress in Physics</i> , 2017 , 80, 016503	14.4	108
539	Deterministic and robust generation of single photons from a single quantum dot with 99.5% indistinguishability using adiabatic rapid passage. <i>Nano Letters</i> , 2014 , 14, 6515-9	11.5	97
538	Power-law decay of the spatial correlation function in exciton-polariton condensates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 6467-72	11.5	95
537	Polarization-independent active metamaterial for high-frequency terahertz modulation. <i>Optics Express</i> , 2009 , 17, 819-27	3.3	95

536	Voltage fluctuation to current converter with Coulomb-coupled quantum dots. <i>Physical Review Letters</i> , 2015 , 114, 146805	7.4	93
535	Photonic crystal cavity based gas sensor. <i>Applied Physics Letters</i> , 2008 , 92, 261112	3.4	91
534	Lithographic alignment to site-controlled quantum dots for device integration. <i>Applied Physics Letters</i> , 2008 , 92, 183101	3.4	89
533	Towards polariton blockade of confined exciton-polaritons. <i>Nature Materials</i> , 2019 , 18, 219-222	27	87
532	Time-Bin-Encoded Boson Sampling with a Single-Photon Device. <i>Physical Review Letters</i> , 2017 , 118, 190504	7.4	86
531	Exciton-polariton condensates with flat bands in a two-dimensional kagome lattice. <i>New Journal of Physics</i> , 2012 , 14, 065002	2.9	81
530	Polarized nonequilibrium Bose-Einstein condensates of spinor exciton polaritons in a magnetic field. <i>Physical Review Letters</i> , 2010 , 105, 256401	7.4	78
529	Single photon emission from a site-controlled quantum dot-micropillar cavity system. <i>Applied Physics Letters</i> , 2009 , 94, 111111	3.4	78
528	Giant photon bunching, superradiant pulse emission and excitation trapping in quantum-dot nanolasers. <i>Nature Communications</i> , 2016 , 7, 11540	17.4	78
527	Low threshold electrically pumped quantum dot-micropillar lasers. <i>Applied Physics Letters</i> , 2008 , 93, 061104	3.4	76
526	Toward Scalable Boson Sampling with Photon Loss. <i>Physical Review Letters</i> , 2018 , 120, 230502	7.4	69
525	Gallium arsenide (GaAs) quantum photonic waveguide circuits. <i>Optics Communications</i> , 2014 , 327, 49-55	2	69
524	Quantum-dot-induced phase shift in a pillar microcavity. <i>Physical Review A</i> , 2011 , 84,	2.6	69
523	Signatures of a dissipative phase transition in photon correlation measurements. <i>Nature Physics</i> , 2018 , 14, 365-369	16.2	68
522	Single photon emission from positioned GaAs/AlGaAs photonic nanowires. <i>Applied Physics Letters</i> , 2010 , 96, 211117	3.4	67
521	Zero-dimensional polariton laser in a subwavelength grating-based vertical microcavity. <i>Light: Science and Applications</i> , 2014 , 3, e135-e135	16.7	65
520	Single site-controlled In(Ga)As/GaAs quantum dots: growth, properties and device integration. <i>Nanotechnology</i> , 2009 , 20, 434012	3.4	65
519	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

518	Laser mode feeding by shaking quantum dots in a planar microcavity. <i>Nature Photonics</i> , 2012 , 6, 30-34	33.9	63
517	From polariton condensates to highly photonic quantum degenerate states of bosonic matter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1804-9	11.5	63
516	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
515	Gain-induced trapping of microcavity exciton polariton condensates. <i>Physical Review Letters</i> , 2010 , 104, 126403	7.4	62
514	Cascaded emission of single photons from the biexciton in monolayered WSe. <i>Nature Communications</i> , 2016 , 7, 13409	17.4	61
513	Creation of orbital angular momentum states with chiral polaritonic lenses. <i>Physical Review Letters</i> , 2014 , 113, 200404	7.4	59
512	Control of the strong light-matter interaction between an elongated In _{0.3} Ga _{0.7} As quantum dot and a micropillar cavity using external magnetic fields. <i>Physical Review Letters</i> , 2009 , 103, 127401	7.4	58
511	Observing chaos for quantum-dot microlasers with external feedback. <i>Nature Communications</i> , 2011 , 2, 366	17.4	57
510	Emission from quantum-dot high- \mathbb{Q} microcavities: transition from spontaneous emission to lasing and the effects of superradiant emitter coupling. <i>Light: Science and Applications</i> , 2017 , 6, e17030	16.7	55
509	Narrow spectral linewidth from single site-controlled In(Ga)As quantum dots with high uniformity. <i>Applied Physics Letters</i> , 2011 , 98, 131104	3.4	55
508	Bloch-wave engineering of quantum dot micropillars for cavity quantum electrodynamics experiments. <i>Physical Review Letters</i> , 2012 , 108, 057402	7.4	55
507	Optical valley Hall effect for highly valley-coherent exciton-polaritons in an atomically thin semiconductor. <i>Nature Nanotechnology</i> , 2019 , 14, 770-775	28.7	54
506	A polariton condensate in a photonic crystal potential landscape. <i>New Journal of Physics</i> , 2015 , 17, 023001	19	54
505	Sensing of formaldehyde using a distributed feedback interband cascade laser emitting around 3493 nm. <i>Applied Optics</i> , 2012 , 51, 6009-13	1.7	52
504	Spontaneous Emission Enhancement in Strain-Induced WSe ₂ Monolayer-Based Quantum Light Sources on Metallic Surfaces. <i>ACS Photonics</i> , 2018 , 5, 1919-1926	6.3	51
503	Characterization of two-threshold behavior of the emission from a GaAs microcavity. <i>Physical Review B</i> , 2012 , 85,	3.3	51
502	Indistinguishable tunable single photons emitted by spin-flip Raman transitions in InGaAs quantum dots. <i>Physical Review Letters</i> , 2013 , 111, 237403	7.4	50
501	Interband cascade lasers with room temperature threshold current densities below 100 A/cm ² . <i>Applied Physics Letters</i> , 2013 , 102, 231123	3.4	50

500	An electrically driven cavity-enhanced source of indistinguishable photons with 61% overall efficiency. <i>APL Photonics</i> , 2016 , 1, 011301	5.2	50
499	Exciton-polariton condensates near the Dirac point in a triangular lattice. <i>New Journal of Physics</i> , 2013 , 15, 035032	2.9	49
498	Mid-infrared semiconductor heterostructure lasers for gas sensing applications. <i>Semiconductor Science and Technology</i> , 2011 , 26, 014032	1.8	49
497	Polariton condensation in S- and P-flatbands in a two-dimensional Lieb lattice. <i>Applied Physics Letters</i> , 2017 , 111, 231102	3.4	48
496	Downconversion quantum interface for a single quantum dot spin and 1550-nm single-photon channel. <i>Optics Express</i> , 2012 , 20, 27510-9	3.3	48
495	Deterministic implementation of a bright, on-demand single photon source with near-unity indistinguishability via quantum dot imaging. <i>Optica</i> , 2017 , 4, 802-808	8.6	47
494	Two-photon interference from remote quantum dots with inhomogeneously broadened linewidths. <i>Physical Review B</i> , 2014 , 89,	3.3	47
493	Waveguide photon-number-resolving detectors for quantum photonic integrated circuits. <i>Applied Physics Letters</i> , 2013 , 103, 111116	3.4	47
492	Overcoming power broadening of the quantum dot emission in a pure wurtzite nanowire. <i>Physical Review B</i> , 2016 , 93,	3.3	46
491	Enhanced spontaneous emission from quantum dots in short photonic crystal waveguides. <i>Applied Physics Letters</i> , 2012 , 100, 061122	3.4	46
490	On-chip quantum optics with quantum dot microcavities. <i>Advanced Materials</i> , 2013 , 25, 707-10	24	46
489	Continuous wave single mode operation of GaInAsSb/InAs quantum well lasers emitting beyond 3 μ m. <i>Applied Physics Letters</i> , 2008 , 92, 183508	3.4	46
488	Physics and applications of exciton-polariton lasers. <i>Nature Materials</i> , 2016 , 15, 1049-52	27	46
487	Algebraic order and the Berezinskii-Kosterlitz-Thouless transition in an exciton-polariton gas. <i>Physical Review B</i> , 2014 , 90,	3.3	45
486	Microcavity controlled coupling of excitonic qubits. <i>Nature Communications</i> , 2013 , 4, 1747	17.4	44
485	Pulsed nuclear pumping and spin diffusion in a single charged quantum dot. <i>Physical Review Letters</i> , 2010 , 105, 107401	7.4	44
484	Microcavity enhanced single photon emission from an electrically driven site-controlled quantum dot. <i>Applied Physics Letters</i> , 2012 , 100, 091108	3.4	43
483	Temperature-dependent Mollow triplet spectra from a single quantum dot: Rabi frequency renormalization and sideband linewidth insensitivity. <i>Physical Review Letters</i> , 2014 , 113, 097401	7.4	41

482	Intensity fluctuations in bimodal micropillar lasers enhanced by quantum-dot gain competition. <i>Physical Review A</i> , 2013 , 87,	2.6	41
481	Collective state transitions of exciton-polaritons loaded into a periodic potential. <i>Physical Review B</i> , 2016 , 93,	3.3	39
480	Quantum-Dot Single-Photon Sources for Entanglement Enhanced Interferometry. <i>Physical Review Letters</i> , 2017 , 118, 257402	7.4	39
479	Fourier Transformed Photoreflectance and Photoluminescence of Mid Infrared GaSb-Based Type II Quantum Wells. <i>Applied Physics Express</i> , 2009 , 2, 126505	2.4	39
478	Influence of doping density on electron dynamics in GaAs/AlGaAs quantum cascade lasers. <i>Journal of Applied Physics</i> , 2006 , 99, 103106	2.5	38
477	Circularly polarized light emission from chiral spatially-structured planar semiconductor microcavities. <i>Physical Review B</i> , 2014 , 89,	3.3	37
476	Directional whispering gallery mode emission from Limaçon-shaped electrically pumped quantum dot micropillar lasers. <i>Applied Physics Letters</i> , 2012 , 101, 021116	3.4	37
475	Scalable fabrication of optical resonators with embedded site-controlled quantum dots. <i>Optics Letters</i> , 2008 , 33, 1759-61	3	37
474	Bright single photon source based on self-aligned quantum dot-cavity systems. <i>Optics Express</i> , 2014 , 22, 8136-42	3.3	36
473	Dynamically controlled resonance fluorescence spectra from a doubly dressed single InGaAs quantum dot. <i>Physical Review Letters</i> , 2015 , 114, 097402	7.4	35
472	Quantum dot micropillar cavities with quality factors exceeding 250,000. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	35
471	Logical Stochastic Resonance with a Coulomb-Coupled Quantum-Dot Rectifier. <i>Physical Review Applied</i> , 2015 , 4,	4.3	35
470	Room temperature, continuous wave lasing in microcylinder and microring quantum dot laser diodes. <i>Applied Physics Letters</i> , 2012 , 100, 031111	3.4	35
469	Universal and reconfigurable logic gates in a compact three-terminal resonant tunneling diode. <i>Applied Physics Letters</i> , 2010 , 96, 042112	3.4	35
468	Observation of bosonic condensation in a hybrid monolayer MoSe-GaAs microcavity. <i>Nature Communications</i> , 2018 , 9, 3286	17.4	34
467	. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 480-482	2.2	34
466	Anomalies of a nonequilibrium spinor polariton condensate in a magnetic field. <i>Physical Review Letters</i> , 2014 , 112, 093902	7.4	34
465	Spatial coherence properties of one dimensional exciton-polariton condensates. <i>Physical Review Letters</i> , 2014 , 113, 203902	7.4	34

464	Electro optical tuning of Tamm-plasmon exciton-polaritons. <i>Applied Physics Letters</i> , 2014 , 105, 181107	3-4	34
463	Polariton multistability and fast linear-to-circular polarization conversion in planar microcavities with lowered symmetry. <i>Applied Physics Letters</i> , 2013 , 102, 011104	3-4	34
462	Single photon emission from InGaN/GaN quantum dots up to 50 K. <i>Applied Physics Letters</i> , 2012 , 100, 061115	3-4	34
461	Carrier trapping and luminescence polarization in quantum dashes. <i>Physical Review B</i> , 2012 , 85,	3-3	34
460	Monolithic frequency comb platform based on interband cascade lasers and detectors. <i>Optica</i> , 2019 , 6, 890	8.6	34
459	Strain-Tunable Single Photon Sources in WSe Monolayers. <i>Nano Letters</i> , 2019 , 19, 6931-6936	11.5	33
458	All-optical flow control of a polariton condensate using nonresonant excitation. <i>Physical Review B</i> , 2015 , 91,	3-3	33
457	Single photon emission at 1.55 eV from charged and neutral exciton confined in a single quantum dash. <i>Applied Physics Letters</i> , 2014 , 105, 021909	3-4	33
456	Shortened injector interband cascade lasers for 3.3- to 3.6-eV emission. <i>Optical Engineering</i> , 2010 , 49, 111117	1.1	32
455	Ultrafast tracking of second-order photon correlations in the emission of quantum-dot microresonator lasers. <i>Physical Review B</i> , 2010 , 81,	3-3	32
454	Higher order coherence of exciton-polariton condensates. <i>Physical Review B</i> , 2010 , 81,	3-3	32
453	Mode-switching induced super-thermal bunching in quantum-dot microlasers. <i>New Journal of Physics</i> , 2016 , 18, 063011	2.9	32
452	Quantum frequency conversion of a quantum dot single-photon source on a nanophotonic chip. <i>Optica</i> , 2019 , 6, 563	8.6	31
451	Zeeman splitting and diamagnetic shift of spatially confined quantum-well exciton polaritons in an external magnetic field. <i>Physical Review B</i> , 2011 , 84,	3-3	31
450	Light sensitive memristor with bi-directional and wavelength-dependent conductance control. <i>Applied Physics Letters</i> , 2016 , 109, 023501	3-4	31
449	Room temperature organic exciton-polariton condensate in a lattice. <i>Nature Communications</i> , 2020 , 11, 2863	17.4	30
448	Electro-Photo-Sensitive Memristor for Neuromorphic and Arithmetic Computing. <i>Physical Review Applied</i> , 2016 , 5,	4-3	30
447	Monolayered MoSe ₂ : a candidate for room temperature polaritonics. <i>2D Materials</i> , 2017 , 4, 015006	5.9	30

446	Linewidth broadening and emission saturation of a resonantly excited quantum dot monitored via an off-resonant cavity mode. <i>Physical Review B</i> , 2010 , 82,	3.3	30
445	Coherent Polariton Laser. <i>Physical Review X</i> , 2016 , 6,	9.1	29
444	Coherently driving a single quantum two-level system with dichromatic laser pulses. <i>Nature Physics</i> , 2019 , 15, 941-946	16.2	29
443	Stochastic formation of polariton condensates in two degenerate orbital states. <i>Physical Review B</i> , 2013 , 87,	3.3	29
442	Effect of Coulomb interaction on exciton-polariton condensates in GaAs pillar microcavities. <i>Physical Review B</i> , 2011 , 84,	3.3	29
441	Quantum efficiency and oscillator strength of site-controlled InAs quantum dots. <i>Applied Physics Letters</i> , 2010 , 96, 151102	3.4	29
440	Numerical and Experimental Study of the Q Factor of High- Q Micropillar Cavities. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 1470-1483	2	29
439	Tapered quantum cascade lasers. <i>Applied Physics Letters</i> , 2007 , 91, 181122	3.4	29
438	Valley polarized relaxation and upconversion luminescence from Tamm-plasmon trion polaritons with a MoSe ₂ monolayer. <i>2D Materials</i> , 2017 , 4, 025096	5.9	28
437	Cavity-enhanced simultaneous dressing of quantum dot exciton and biexciton states. <i>Physical Review B</i> , 2016 , 93,	3.3	28
436	Quantum Interference between Light Sources Separated by 150 Million Kilometers. <i>Physical Review Letters</i> , 2019 , 123, 080401	7.4	28
435	Observation of hybrid Tamm-plasmon exciton-polaritons with GaAs quantum wells and a MoSe ₂ monolayer. <i>Nature Communications</i> , 2017 , 8, 259	17.4	28
434	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
433	Talbot Effect for Exciton Polaritons. <i>Physical Review Letters</i> , 2016 , 117, 097403	7.4	27
432	Lasing from active optomechanical resonators. <i>Nature Communications</i> , 2014 , 5, 4038	17.4	27
431	Whispering gallery mode lasing in electrically driven quantum dot micropillars. <i>Applied Physics Letters</i> , 2010 , 97, 101108	3.4	27
430	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
429	Widely tunable, efficient on-chip single photon sources at telecommunication wavelengths. <i>Optics Express</i> , 2012 , 20, 21758-65	3.3	27

428	Substrate orientation dependent fine structure splitting of symmetric In(Ga)As/GaAs quantum dots. <i>Applied Physics Letters</i> , 2012 , 101, 022102	3-4	27
427	Emission wavelength tuning of interband cascade lasers in the 3-4 μm spectral range. <i>Applied Physics Letters</i> , 2009 , 95, 251103	3-4	27
426	Dynamics of excitons in individual InAs quantum dots revealed in four-wave mixing spectroscopy. <i>Optica</i> , 2016 , 3, 377	8.6	26
425	Charged quantum dot micropillar system for deterministic light-matter interactions. <i>Physical Review B</i> , 2016 , 93,	3-3	26
424	Multi-wave coherent control of a solid-state single emitter. <i>Nature Photonics</i> , 2016 , 10, 155-158	33-9	26
423	Complete tomography of a high-fidelity solid-state entangled spin-photon qubit pair. <i>Nature Communications</i> , 2013 , 4, 2228	17.4	26
422	Strain-driven growth of GaAs(111) quantum dots with low fine structure splitting. <i>Applied Physics Letters</i> , 2014 , 105, 251901	3-4	26
421	Exciton and biexciton dynamics in single self-assembled InAs/InGaAlAs/InP quantum dash emitting near 1.55 μm . <i>Applied Physics Letters</i> , 2013 , 103, 253113	3-4	26
420	Spin multistability of cavity polaritons in a magnetic field. <i>Physical Review B</i> , 2013 , 87,	3-3	26
419	Picosecond pulses from a mid-infrared interband cascade laser. <i>Optica</i> , 2019 , 6, 1334	8.6	26
418	Single-photon emission of InAs/InP quantum dashes at 1.55 μm and temperatures up to 80 K. <i>Applied Physics Letters</i> , 2016 , 108, 163108	3-4	26
417	Observation of macroscopic valley-polarized monolayer exciton-polaritons at room temperature. <i>Physical Review B</i> , 2017 , 96,	3-3	25
416	Controlling circular polarization of light emitted by quantum dots using chiral photonic crystal slabs. <i>Physical Review B</i> , 2015 , 92,	3-3	25
415	Enhanced single photon emission from positioned InP/GaInP quantum dots coupled to a confined Tamm-plasmon mode. <i>Applied Physics Letters</i> , 2015 , 106, 041113	3-4	25
414	Cavity-enhanced resonant tunneling photodetector at telecommunication wavelengths. <i>Applied Physics Letters</i> , 2014 , 104, 101109	3-4	25
413	GaAs/AlGaAs resonant tunneling diodes with a GaInNAs absorption layer for telecommunication light sensing. <i>Applied Physics Letters</i> , 2012 , 100, 172113	3-4	25
412	Exciton spin state mediated photon-photon coupling in a strongly coupled quantum dot microcavity system. <i>Physical Review B</i> , 2010 , 82,	3-3	25
411	Widely tunable quantum cascade lasers with coupled cavities for gas detection. <i>Applied Physics Letters</i> , 2010 , 97, 181111	3-4	25

410	Two-photon interference from a quantum dot microcavity: Persistent pure dephasing and suppression of time jitter. <i>Physical Review B</i> , 2015 , 91,	3.3	24
409	Structural and optical properties of InGaNCaN nanowire heterostructures grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2011 , 109, 014309	2.5	24
408	Experimental evidence on quantum well-quantum dash energy transfer in tunnel injection structures for 1.55 μ m emission. <i>Applied Physics Letters</i> , 2007 , 90, 081915	3.4	24
407	InAs-based interband-cascade-lasers emitting around 7 μ m with threshold current densities below 1 kA/cm ² at room temperature. <i>Applied Physics Letters</i> , 2015 , 106, 041108	3.4	23
406	Half-skyrmion spin textures in polariton microcavities. <i>Physical Review B</i> , 2016 , 94,	3.3	23
405	Optical bistability in electrically driven polariton condensates. <i>Physical Review B</i> , 2015 , 91,	3.3	23
404	Single mode interband cascade lasers based on lateral metal gratings. <i>Applied Physics Letters</i> , 2014 , 105, 071111	3.4	23
403	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
402	Monolithically Integrated Logic nor Gate Based on GaAs/AlGaAs Three-Terminal Junctions. <i>IEEE Electron Device Letters</i> , 2007 , 28, 859-861	4.4	23
401	Reduction of the threshold current density of GaAs/AlGaAs quantum cascade lasers by optimized injector doping and growth conditions. <i>Journal of Crystal Growth</i> , 2005 , 278, 775-779	1.6	23
400	Electrically Tunable Single-Photon Source Triggered by a Monolithically Integrated Quantum Dot Microlaser. <i>ACS Photonics</i> , 2017 , 4, 790-794	6.3	22
399	Near-Unity Indistinguishability Single Photon Source for Large-Scale Integrated Quantum Optics. <i>Physical Review Letters</i> , 2019 , 122, 173602	7.4	22
398	Realization of all-optical vortex switching in exciton-polariton condensates. <i>Nature Communications</i> , 2020 , 11, 897	17.4	22
397	Experimental and theoretical analysis of Landauer erasure in nano-magnetic switches of different sizes. <i>Nano Energy</i> , 2016 , 19, 108-116	17.1	22
396	Quantum State Transfer from a Single Photon to a Distant Quantum-Dot Electron Spin. <i>Physical Review Letters</i> , 2017 , 119, 060501	7.4	22
395	Coherence signatures and density-dependent interaction in a dynamical exciton-polariton condensate. <i>Physical Review B</i> , 2012 , 86,	3.3	22
394	Mode selection in electrically driven quantum dot microring cavities. <i>Optics Express</i> , 2013 , 21, 15951-8	3.3	22
393	Large quantum dots with small oscillator strength. <i>Physical Review B</i> , 2010 , 82,	3.3	22

392	Coherence and Interaction in Confined Room-Temperature Polariton Condensates with Frenkel Excitons. <i>ACS Photonics</i> , 2020 , 7, 384-392	6.3	22
391	Deterministic coupling of quantum emitters in WSe monolayers to plasmonic nanocavities. <i>Optics Express</i> , 2018 , 26, 25944-25951	3.3	22
390	Coupling polariton quantum boxes in sub-wavelength grating microcavities. <i>Applied Physics Letters</i> , 2015 , 106, 051104	3.4	21
389	Sensitivity of resonant tunneling diode photodetectors. <i>Nanotechnology</i> , 2016 , 27, 355202	3.4	21
388	Quantum-optical spectroscopy of a two-level system using an electrically driven micropillar laser as a resonant excitation source. <i>Light: Science and Applications</i> , 2018 , 7, 41	16.7	21
387	Coherence expansion and polariton condensate formation in a semiconductor microcavity. <i>Physical Review Letters</i> , 2013 , 110, 137402	7.4	21
386	Interband cascade lasers with AlGaAsSb bulk cladding layers. <i>Optical Materials Express</i> , 2013 , 3, 1624	2.6	21
385	Oscillatory variations in the Q factors of high quality micropillar cavities. <i>Applied Physics Letters</i> , 2009 , 94, 061108	3.4	21
384	Detection of charge states in nanowire quantum dots using a quantum point contact. <i>Applied Physics Letters</i> , 2007 , 90, 172112	3.4	21
383	Platform for Electrically Pumped Polariton Simulators and Topological Lasers. <i>Physical Review Letters</i> , 2018 , 121, 257402	7.4	21
382	Exploring the Photon-Number Distribution of Bimodal Microlasers with a Transition Edge Sensor. <i>Physical Review Applied</i> , 2018 , 9,	4.3	21
381	Single-mode interband cascade lasers emitting below 2.8 μm . <i>Applied Physics Letters</i> , 2015 , 106, 161103	3.4	20
380	Magnetic field control of the neutral and charged exciton fine structure in single quantum dashes emitting at 1.55 μm . <i>Applied Physics Letters</i> , 2015 , 106, 053114	3.4	20
379	Two-photon interference at telecom wavelengths for time-bin-encoded single photons from quantum-dot spin qubits. <i>Nature Communications</i> , 2015 , 6, 8955	17.4	20
378	Nonlinear route to intrinsic Josephson oscillations in spinor cavity-polariton condensates. <i>Physical Review B</i> , 2014 , 90,	3.3	20
377	Spontaneous emission control of single quantum dots by electromechanical tuning of a photonic crystal cavity. <i>Applied Physics Letters</i> , 2012 , 101, 091106	3.4	20
376	Single mode quantum cascade lasers with shallow-etched distributed Bragg reflector. <i>Optics Express</i> , 2012 , 20, 3890-7	3.3	20
375	All-optical control of quantized momenta on a polariton staircase. <i>Physical Review B</i> , 2012 , 85,	3.3	20

374	Room temperature memory operation of a single InAs quantum dot layer in a GaAs/AlGaAs heterostructure. <i>Applied Physics Letters</i> , 2008 , 93, 063502	3.4	20
373	The interplay between excitons and trions in a monolayer of MoSe ₂ . <i>Applied Physics Letters</i> , 2018 , 112, 031107	3.4	19
372	Experimental Verification of the Very Strong Coupling Regime in a GaAs Quantum Well Microcavity. <i>Physical Review Letters</i> , 2017 , 119, 027401	7.4	19
371	Strong Coupling in Fully Tunable Microcavities Filled with Biologically Produced Fluorescent Proteins. <i>Advanced Optical Materials</i> , 2017 , 5, 1600659	8.1	19
370	Efficient single photon source based on fibre-coupled tunable microcavity. <i>Scientific Reports</i> , 2015 , 5, 14309	4.9	19
369	Electro-optical switching between polariton and cavity lasing in an InGaAs quantum well microcavity. <i>Optics Express</i> , 2014 , 22, 31146-53	3.3	19
368	Electromechanical tuning of vertically-coupled photonic crystal nanobeams. <i>Optics Express</i> , 2012 , 20, 19255-63	3.3	19
367	Tailoring of morphology and emission wavelength of AlGaInAs quantum dots. <i>Nanotechnology</i> , 2008 , 19, 045601	3.4	19
366	Columnar quantum dashes for an active region in polarization independent semiconductor optical amplifiers at 1.55 μ m. <i>Applied Physics Letters</i> , 2008 , 93, 171910	3.4	19
365	Low threshold, high gain AlGaInAs quantum dot lasers. <i>Applied Physics Letters</i> , 2007 , 90, 221113	3.4	19
364	Influence of optical material properties on strong coupling in organic semiconductor based microcavities. <i>Applied Physics Letters</i> , 2017 , 110, 153302	3.4	18
363	Mutual coupling and synchronization of optically coupled quantum-dot micropillar lasers at ultra-low light levels. <i>Nature Communications</i> , 2019 , 10, 1539	17.4	18
362	Photon echo transients from an inhomogeneous ensemble of semiconductor quantum dots. <i>Physical Review B</i> , 2016 , 93,	3.3	18
361	Exciton lifetime and emission polarization dispersion in strongly in-plane asymmetric nanostructures. <i>Physical Review B</i> , 2017 , 96,	3.3	18
360	Nanothermometer Based on Resonant Tunneling Diodes: From Cryogenic to Room Temperatures. <i>ACS Nano</i> , 2015 , 9, 6271-7	16.7	18
359	Phonon-assisted radiative recombination of excitons confined in strongly anisotropic nanostructures. <i>Physical Review B</i> , 2014 , 90,	3.3	18
358	Integrated autocorrelator based on superconducting nanowires. <i>Optics Express</i> , 2013 , 21, 11162-70	3.3	18
357	High beta lasing in micropillar cavities with adiabatic layer design. <i>Applied Physics Letters</i> , 2013 , 102, 052114	3.4	18

356	Spin and density patterns of polariton condensates resonantly excited in strained planar microcavities with a nonuniform potential landscape. <i>Physical Review B</i> , 2013 , 88,	3-3	18
355	Impact of wetting-layer density of states on the carrier relaxation process in low indium content self-assembled (In,Ga)As/GaAs quantum dots. <i>Physical Review B</i> , 2013 , 87,	3-3	18
354	Density and size control of InP/GaInP quantum dots on GaAs substrate grown by gas source molecular beam epitaxy. <i>Nanotechnology</i> , 2012 , 23, 015605	3-4	18
353	Optical properties of GaSb-based type II quantum wells as the active region of midinfrared interband cascade lasers for gas sensing applications. <i>Applied Physics Letters</i> , 2009 , 94, 251901	3-4	18
352	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
351	Photocurrent-voltage relation of resonant tunneling diode photodetectors. <i>Applied Physics Letters</i> , 2015 , 107, 081104	3-4	17
350	Evolution of Temporal Coherence in Confined Exciton-Polariton Condensates. <i>Physical Review Letters</i> , 2018 , 120, 017401	7-4	17
349	Photon-Number-Resolved Measurement of an Exciton-Polariton Condensate. <i>Physical Review Letters</i> , 2018 , 121, 047401	7-4	17
348	Substrate engineering for high-quality emission of free and localized excitons from atomic monolayers in hybrid architectures. <i>Optica</i> , 2017 , 4, 669	8-6	17
347	Ghost Branch Photoluminescence From a Polariton Fluid Under Nonresonant Excitation. <i>Physical Review Letters</i> , 2015 , 115, 186401	7-4	17
346	Influence of interactions with noncondensed particles on the coherence of a one-dimensional polariton condensate. <i>Physical Review B</i> , 2014 , 89,	3-3	17
345	Site-controlled InP/GaInP quantum dots emitting single photons in the red spectral range. <i>Applied Physics Letters</i> , 2012 , 100, 091109	3-4	17
344	Temperature Dependence of Highly Excited Exciton Polaritons in Semiconductor Microcavities. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 084709	1-5	17
343	Single-photon emitters based on epitaxial isolated InP/InGaP quantum dots. <i>Applied Physics Letters</i> , 2012 , 100, 023116	3-4	17
342	Photon echoes from (In,Ga)As quantum dots embedded in a Tamm-plasmon microcavity. <i>Physical Review B</i> , 2017 , 95,	3-3	16
341	Phonon induced line broadening and population of the dark exciton in a deeply trapped localized emitter in monolayer WSe ₂ . <i>Optics Express</i> , 2016 , 24, 8066-73	3-3	16
340	Excitonic fine structure and binding energies of excitonic complexes in single InAs quantum dashes. <i>Physical Review B</i> , 2016 , 94,	3-3	16
339	Simple Electrical Modulation Scheme for Laser Feedback Imaging. <i>IEEE Sensors Journal</i> , 2016 , 16, 1937-1942		16

338	Observation of resonance fluorescence and the Mollow triplet from a coherently driven site-controlled quantum dot. <i>Optica</i> , 2015 , 2, 1072	8.6	16
337	Deterministic generation of bright single resonance fluorescence photons from a Purcell-enhanced quantum dot-micropillar system. <i>Optics Express</i> , 2015 , 23, 32977-85	3.3	16
336	Toward weak confinement regime in epitaxial nanostructures: Interdependence of spatial character of quantum confinement and wave function extension in large and elongated quantum dots. <i>Physical Review B</i> , 2014 , 90,	3.3	16
335	Widely tunable single-mode quantum cascade lasers with two monolithically coupled Fabry-Pérot cavities. <i>Applied Physics Letters</i> , 2006 , 89, 241126	3.4	16
334	Dependence of saturation effects on electron confinement and injector doping in GaAs/Al _{0.45} Ga _{0.55} As quantum-cascade lasers. <i>Applied Physics Letters</i> , 2006 , 88, 251109	3.4	16
333	Intrinsic and environmental effects on the interference properties of a high-performance quantum dot single-photon source. <i>Physical Review B</i> , 2018 , 97,	3.3	16
332	Topological insulator vertical-cavity laser array. <i>Science</i> , 2021 , 373, 1514-1517	33.3	16
331	Picosecond Control of Quantum Dot Laser Emission by Coherent Phonons. <i>Physical Review Letters</i> , 2017 , 118, 133901	7.4	15
330	Mid-infrared GaSb-based resonant tunneling diode photodetectors for gas sensing applications. <i>Applied Physics Letters</i> , 2018 , 112, 161107	3.4	15
329	Tunable Light-Matter Hybridization in Open Organic Microcavities. <i>ACS Photonics</i> , 2018 , 5, 90-94	6.3	15
328	Injection Locking of Quantum-Dot Microlasers Operating in the Few-Photon Regime. <i>Physical Review Applied</i> , 2016 , 6,	4.3	15
327	Electroluminescence from spatially confined exciton polaritons in a textured microcavity. <i>Applied Physics Letters</i> , 2013 , 102, 041101	3.4	15
326	Strong light-matter coupling in the presence of lasing. <i>Physical Review A</i> , 2017 , 96,	2.6	15
325	Photon-Statistics Excitation Spectroscopy of a Quantum-Dot Micropillar Laser. <i>Physical Review Letters</i> , 2015 , 115, 027401	7.4	15
324	Room-temperature operation of InAs-based interband-cascade-lasers beyond 6 μm. <i>Electronics Letters</i> , 2013 , 49, 286-287	1.1	15
323	Polarization-dependent strong coupling in elliptical high-Q micropillar cavities. <i>Physical Review B</i> , 2010 , 82,	3.3	15
322	Resolving the temporal evolution of line broadening in single quantum emitters. <i>Optics Express</i> , 2019 , 27, 35290-35307	3.3	15
321	Integration of atomically thin layers of transition metal dichalcogenides into high-Q, monolithic Bragg-cavities: an experimental platform for the enhancement of the optical interaction in 2D-materials. <i>Optical Materials Express</i> , 2019 , 9, 598	2.6	15

3 ²⁰	Controlled Ordering of Topological Charges in an Exciton-Polariton Chain. <i>Physical Review Letters</i> , 2018 , 121, 225302	7.4	15
3 ¹⁹	Extending Quantum Links: Modules for Fiber- and Memory-Based Quantum Repeaters. <i>Advanced Quantum Technologies</i> , 2020 , 3, 1900141	4.3	14
3 ¹⁸	High-energy side-peak emission of exciton-polariton condensates in high density regime. <i>Scientific Reports</i> , 2016 , 6, 25655	4.9	14
3 ¹⁷	Pump-Power-Driven Mode Switching in a Microcavity Device and Its Relation to Bose-Einstein Condensation. <i>Physical Review X</i> , 2017 , 7,	9.1	14
3 ¹⁶	Broadband indistinguishability from bright parametric downconversion in a semiconductor waveguide. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 125201	1.7	14
3 ¹⁵	In(Ga)As/GaAs site-controlled quantum dots with tailored morphology and high optical quality. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2379-2386	1.6	14
3 ¹⁴	Demonstration of the self-mixing effect in interband cascade lasers. <i>Applied Physics Letters</i> , 2013 , 103, 231107	3.4	14
3 ¹³	Magnetic field control of polarized polariton condensates in rectangular microcavity pillars. <i>Physical Review B</i> , 2012 , 85,	3.3	14
3 ¹²	Device performance and wavelength tuning behavior of ultra-short quantum-cascade microlasers with deeply etched Bragg-mirrors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2005 , 11, 1048-1054	3.8	14
3 ¹¹	Tailoring the mode-switching dynamics in quantum-dot micropillar lasers via time-delayed optical feedback. <i>Optics Express</i> , 2018 , 26, 22457-22470	3.3	14
3 ¹⁰	Blowup dynamics of coherently driven polariton condensates: Experiment. <i>Physical Review B</i> , 2015 , 92,	3.3	13
3 ⁰⁹	Temperature dependence of pulsed polariton lasing in a GaAs microcavity. <i>New Journal of Physics</i> , 2012 , 14, 083014	2.9	13
3 ⁰⁸	1.3 microm quantum dot laser in coupled-cavity-injection-grating design with bandwidth of 20 GHz under direct modulation. <i>Optics Express</i> , 2008 , 16, 5596-601	3.3	13
3 ⁰⁷	Room-temperature singlemode continuous-wave operation of distributed feedback GaInNAs laser diodes at 1.5 [micro sign]m. <i>Electronics Letters</i> , 2008 , 44, 737	1.1	13
3 ⁰⁶	Unconventional collective normal-mode coupling in quantum-dot-based bimodal microlasers. <i>Physical Review A</i> , 2015 , 91,	2.6	12
3 ⁰⁵	Experimental realization of a polariton beam amplifier. <i>Physical Review B</i> , 2016 , 93,	3.3	12
3 ⁰⁴	Loss of coherence in cavity-polariton condensates: Effect of disorder versus exciton reservoir. <i>Physical Review B</i> , 2016 , 94,	3.3	12
3 ⁰³	Strain-Tunable Single-Photon Source Based on a Quantum Dot Micropillar System. <i>ACS Photonics</i> , 2019 , 6, 2025-2031	6.3	12

302	Nonlinear emission characteristics of quantum dot micropillar lasers in the presence of polarized optical feedback. <i>New Journal of Physics</i> , 2013 , 15, 025030	2.9	12
301	Highly excited exciton-polariton condensates. <i>Physical Review B</i> , 2017 , 95,	3.3	12
300	On-chip optoelectronic feedback in a micropillar laser-detector assembly. <i>Optica</i> , 2017 , 4, 303	8.6	12
299	Memristive operation mode of a site-controlled quantum dot floating gate transistor. <i>Applied Physics Letters</i> , 2015 , 106, 203501	3.4	12
298	Multi-state lasing in self-assembled ring-shaped green fluorescent protein microcavities. <i>Applied Physics Letters</i> , 2014 , 105, 233702	3.4	12
297	Height-driven linear polarization of the surface emission from quantum dashes. <i>Semiconductor Science and Technology</i> , 2012 , 27, 105022	1.8	12
296	Effect of arsenic on the optical properties of GaSb-based type II quantum wells with quaternary GaInAsSb layers. <i>Journal of Applied Physics</i> , 2013 , 114, 223510	2.5	12
295	Electrically Driven Quantum Dot Micropillar Light Sources. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011 , 17, 1670-1680	3.8	12
294	Bose-einstein condensation of exciton polaritons in high-Q planar microcavities with GaAs quantum wells. <i>JETP Letters</i> , 2010 , 92, 595-599	1.2	12
293	Orientation dependent emission properties of columnar quantum dash laser structures. <i>Applied Physics Letters</i> , 2009 , 94, 241113	3.4	12
292	InAs/GaInAs(N) quantum dots on GaAs substrate for single photon emitters above 1300 nm. <i>Nanotechnology</i> , 2009 , 20, 505601	3.4	12
291	The impact of p-doping on the static and dynamic properties of 1.5 μ m quantum dash lasers on InP. <i>Applied Physics Letters</i> , 2008 , 92, 011120	3.4	12
290	Edge emitting quantum cascade microlasers on InP with deeply etched one-dimensional photonic crystals. <i>Applied Physics Letters</i> , 2007 , 91, 071104	3.4	12
289	Strain-Tunable Single-Photon Source Based on a Circular Bragg Grating Cavity with Embedded Quantum Dots. <i>ACS Photonics</i> , 2020 , 7, 3474-3480	6.3	12
288	Purcell-Enhanced and Indistinguishable Single-Photon Generation from Quantum Dots Coupled to On-Chip Integrated Ring Resonators. <i>Nano Letters</i> , 2020 , 20, 6357-6363	11.5	12
287	Exciton-polaritons in flatland: Controlling flatband properties in a Lieb lattice. <i>Physical Review B</i> , 2020 , 102,	3.3	12
286	Monolithic High-Contrast Grating Based Polariton Laser. <i>ACS Photonics</i> , 2019 , 6, 18-22	6.3	12
285	Correlations between axial and lateral emission of coupled quantum dot micropillar cavities. <i>Physical Review B</i> , 2015 , 91,	3.3	11

284	Emergence of microfrequency comb via limit cycles in dissipatively coupled condensates. <i>Physical Review B</i> , 2020 , 101,	3.3	11
283	99% beta factor and directional coupling of quantum dots to fast light in photonic crystal waveguides determined by spectral imaging. <i>Physical Review B</i> , 2019 , 100,	3.3	11
282	Type II quantum wells on GaSb substrate designed for laser-based gas sensing applications in a broad range of mid infrared. <i>Optical Materials</i> , 2012 , 34, 1107-1111	3.3	11
281	Impact of nanomechanical resonances on lasing from electrically pumped quantum dot micropillars. <i>Applied Physics Letters</i> , 2015 , 106, 041103	3.4	11
280	(In,Ga)As/GaP electrical injection quantum dot laser. <i>Applied Physics Letters</i> , 2014 , 104, 011113	3.4	11
279	Electrically Driven Polariton Lasing. <i>Optics and Photonics News</i> , 2013 , 24, 30	1.9	11
278	Strong coupling in a quantum dot micropillar system under electrical current injection. <i>Applied Physics Letters</i> , 2010 , 96, 221102	3.4	11
277	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
276	Frequency-Dependent Linewidth Enhancement Factor of Quantum-Dot Lasers. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 1736-1738	2.2	11
275	High-Performance Short-Wavelength (~ 760 nm) AlGaInAs Quantum-Dot Lasers. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1380-1382	2.2	11
274	GaAs/AlGaAs quantum cascade micro lasers based on monolithic semiconductor-air Bragg mirrors. <i>Electronics Letters</i> , 2004 , 40, 120	1.1	11
273	Rabi oscillations of a quantum dot exciton coupled to acoustic phonons: coherence and population readout. <i>Optica</i> , 2018 , 5, 1442	8.6	11
272	Carrier delocalization in InAs/InGaAlAs/InP quantum-dash-based tunnel injection system for 1.55 μm emission. <i>AIP Advances</i> , 2017 , 7, 015117	1.5	10
271	Transition from Jaynes-Cummings to Autler-Townes ladder in a quantum dot microcavity system. <i>Physical Review B</i> , 2017 , 95,	3.3	10
270	Coherent coupling of individual quantum dots measured with phase-referenced two-dimensional spectroscopy: Photon echo versus double quantum coherence. <i>Physical Review B</i> , 2017 , 96,	3.3	10
269	Nonresonant spin selection methods and polarization control in exciton-polariton condensates. <i>Physical Review B</i> , 2019 , 99,	3.3	10
268	p- to n-type conductivity transition in 1.0 eV GaInNAs solar cells controlled by the V/III ratio. <i>Applied Physics Letters</i> , 2015 , 106, 063905	3.4	10
267	Invited Article: Time-bin entangled photon pairs from Bragg-reflection waveguides. <i>APL Photonics</i> , 2018 , 3, 080804	5.2	10

266	Nonlinear spectroscopy of exciton-polaritons in a GaAs-based microcavity. <i>Physical Review B</i> , 2014 , 90,	3.3	10
265	Mode-resolved Fabry-Perot experiment in low-loss Bragg-reflection waveguides. <i>Optics Express</i> , 2015 , 23, 33608-21	3.3	10
264	The structural and optical characterization of high areal density Ga(x)In(1-x)P quantum dots on GaP. <i>Nanotechnology</i> , 2009 , 20, 434016	3.4	10
263	GaNAs-Based High-Power and Tapered Laser Diodes for Pumping Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009 , 15, 968-972	3.8	10
262	Increasing the optical transition oscillator strength in GaSb-based type II quantum wells. <i>Applied Physics Letters</i> , 2012 , 100, 231908	3.4	10
261	Gain Studies on Quantum-Dot Lasers With Temperature-Stable Emission Wavelength. <i>IEEE Journal of Quantum Electronics</i> , 2008 , 44, 175-181	2	10
260	Temporally versatile polarization entanglement from Bragg reflection waveguides. <i>Optics Letters</i> , 2017 , 42, 2102-2105	3	10
259	Bosonic condensation of exciton-polaritons in an atomically thin crystal. <i>Nature Materials</i> , 2021 , 20, 1233-1239	4.239	10
258	Purcell-Enhanced Single Photon Source Based on a Deterministically Placed WSe Monolayer Quantum Dot in a Circular Bragg Grating Cavity. <i>Nano Letters</i> , 2021 , 21, 4715-4720	11.5	10
257	Circularly polarized lasing in chiral modulated semiconductor microcavity with GaAs quantum wells. <i>Applied Physics Letters</i> , 2016 , 109, 171106	3.4	10
256	Photonic engineering of highly linearly polarized quantum dot emission at telecommunication wavelengths. <i>Physical Review B</i> , 2018 , 97,	3.3	9
255	Room temperature polariton light emitting diode with integrated tunnel junction. <i>Optics Express</i> , 2013 , 21, 31098-104	3.3	9
254	Verification of band offsets and electron effective masses in GaAsN/GaAs quantum wells: Spectroscopic experiment versus 10-band k \cdot p modeling. <i>Journal of Applied Physics</i> , 2013 , 113, 233508	2.5	9
253	Power gain up to gigahertz frequencies in three-terminal nanojunctions at room temperature. <i>Applied Physics Letters</i> , 2009 , 95, 103502	3.4	9
252	Light-induced stochastic resonance in a nanoscale resonant-tunneling diode. <i>Applied Physics Letters</i> , 2011 , 98, 242109	3.4	9
251	Highly efficient and compact photonic wire splitters on GaAs. <i>Applied Physics Letters</i> , 2007 , 91, 221102	3.4	9
250	Stochastic polarization switching induced by optical injection in bimodal quantum-dot micropillar lasers. <i>Optics Express</i> , 2019 , 27, 28816-28831	3.3	9
249	Coherent Topological Polariton Laser. <i>ACS Photonics</i> , 2021 , 8, 1377-1384	6.3	9

248	Monolithic single mode interband cascade lasers with wide wavelength tunability. <i>Applied Physics Letters</i> , 2016 , 109, 201109	3.4	9
247	Type-II quantum wells with tensile-strained GaAsSb layers for interband cascade lasers with tailored valence band mixing. <i>Applied Physics Letters</i> , 2016 , 108, 101905	3.4	9
246	Room-Temperature Topological Polariton Laser in an Organic Lattice. <i>Nano Letters</i> , 2021 , 21, 6398-6405	11.5	9
245	Room temperature operation of GaSb-based resonant tunneling diodes by prewell injection. <i>Applied Physics Letters</i> , 2017 , 110, 033507	3.4	8
244	Confinement regime in self-assembled InAs/InAlGaAs/InP quantum dashes determined from exciton and biexciton recombination kinetics. <i>Applied Physics Letters</i> , 2017 , 111, 253106	3.4	8
243	Compensation of phonon-induced renormalization of vacuum Rabi splitting in large quantum dots: Towards temperature-stable strong coupling in the solid state with quantum dot-micropillars. <i>Physical Review B</i> , 2015 , 92,	3.3	8
242	InAs-based distributed feedback interband cascade lasers. <i>Applied Physics Letters</i> , 2015 , 107, 181105	3.4	8
241	Temperature dependency of the emission properties from positioned In(Ga)As/GaAs quantum dots. <i>AIP Advances</i> , 2014 , 4, 097128	1.5	8
240	f-band condensates in exciton-polariton lattice systems. <i>Physical Review B</i> , 2014 , 89,	3.3	8
239	On the oscillator strength in dilute nitride quantum wells on GaAs. <i>Journal of Applied Physics</i> , 2012 , 111, 123503	2.5	8
238	Coherence dynamics and quantum-to-classical crossover in an exciton-cavity system in the quantum strong coupling regime. <i>New Journal of Physics</i> , 2013 , 15, 045013	2.9	8
237	Atomic scale interface engineering for strain compensated epitaxially grown InAs/AlSb superlattices. <i>Nanotechnology</i> , 2010 , 21, 455603	3.4	8
236	Resonantly probing micropillar cavity modes by photocurrent spectroscopy. <i>Applied Physics Letters</i> , 2009 , 94, 221103	3.4	8
235	Short-Wavelength (760-820 nm) AlGaInAs Quantum Dot Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009 , 15, 792-798	3.8	8
234	Influence of arsenic flux on the annealing properties of GaInNAs quantum wells for long wavelength laser applications around 1.6 μm . <i>Journal of Crystal Growth</i> , 2009 , 311, 1715-1718	1.6	8
233	Single photon emission in the red spectral range from a GaAs-based self-assembled quantum dot. <i>Applied Physics Letters</i> , 2012 , 101, 103108	3.4	8
232	Modulation Bandwidth and Linewidth Enhancement Factor of High-Speed 1.55- μm Quantum-Dash Lasers. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 528-530	2.2	8
231	Single mode emitting ridge waveguide quantum cascade lasers coupled to an active ring resonator filter. <i>Applied Physics Letters</i> , 2008 , 93, 211106	3.4	8

230	Dynamic properties of 1.5 [μm] quantum dash lasers on (100) InP. <i>Electronics Letters</i> , 2007 , 43, 1093	1.1	8
229	High efficiency mid-infrared interband cascade LEDs grown on low absorbing substrates emitting $>5\text{ mW}$ of output power. <i>Optical Engineering</i> , 2019 , 58, 1	1.1	8
228	Exciton-Exciton Interaction beyond the Hydrogenic Picture in a MoSe ₂ Monolayer in the Strong Light-Matter Coupling Regime. <i>Physical Review Letters</i> , 2021 , 126, 167401	7.4	8
227	Bulk AlInAs on InP(111) as a novel material system for pure single photon emission. <i>Optics Express</i> , 2016 , 24, 23198-23206	3.3	8
226	Exciton spin relaxation in InAs/InGaAlAs/InP(001) quantum dashes emitting near 1.55 μm . <i>Applied Physics Letters</i> , 2016 , 109, 193108	3.4	8
225	Uncovering dispersion properties in semiconductor waveguides to study photon-pair generation. <i>Nanotechnology</i> , 2016 , 27, 434003	3.4	8
224	Molding Photonic Boxes into Fluorescent Emitters by Direct Laser Writing. <i>Advanced Materials</i> , 2017 , 29, 1605236	24	7
223	Graded band gap GaInNAs solar cells. <i>Applied Physics Letters</i> , 2015 , 106, 233902	3.4	7
222	Spatio-temporal coherence in vertically emitting GaAs-based electrically driven polariton lasers. <i>Applied Physics Letters</i> , 2020 , 116, 171103	3.4	7
221	Semi-automatic engineering and tailoring of high-efficiency Bragg-reflection waveguide samples for quantum photonic applications. <i>Quantum Science and Technology</i> , 2018 , 3, 024002	5.5	7
220	Photon-statistics excitation spectroscopy of a single two-level system. <i>Physical Review B</i> , 2016 , 93,	3.3	7
219	Site-controlled InAs/GaAs quantum dots emitting at telecommunication wavelength. <i>Semiconductor Science and Technology</i> , 2014 , 29, 052001	1.8	7
218	Solid-state physics: A historic experiment redesigned. <i>Nature</i> , 2014 , 514, 313-4	50.4	7
217	Prototype of a bistable polariton field-effect transistor switch. <i>Scientific Reports</i> , 2017 , 7, 5114	4.9	7
216	Exciton-polariton flows in cross-dimensional junctions. <i>Physical Review B</i> , 2017 , 95,	3.3	7
215	Circular and linear photogalvanic effects in type-II GaSb/InAs quantum well structures in the inverted regime. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 85, 193-198	3	7
214	Interface Intermixing in Type II InAs/GaInAsSb Quantum Wells Designed for Active Regions of Mid-Infrared-Emitting Interband Cascade Lasers. <i>Nanoscale Research Letters</i> , 2015 , 10, 471	5	7
213	Charging dynamics of a floating gate transistor with site-controlled quantum dots. <i>Applied Physics Letters</i> , 2014 , 105, 053502	3.4	7

212	Spatial dynamics of stepwise homogeneously pumped polariton condensates. <i>Physical Review B</i> , 2012 , 86,	3.3	7
211	Anisotropic strain-tuning of quantum dots inside a photonic crystal cavity. <i>Semiconductor Science and Technology</i> , 2013 , 28, 122002	1.8	7
210	Extrapolation of the intensity autocorrelation function of a quantum-dot micropillar laser into the thermal emission regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 1404	1.7	7
209	AlGaInAs quantum dot solar cells: tailoring quantum dots for intermediate band formation. <i>Semiconductor Science and Technology</i> , 2012 , 27, 032002	1.8	7
208	Singlemode InAs/InP quantum dash distributed feedback lasers emitting in 1.9 [micro sign]m range. <i>Electronics Letters</i> , 2008 , 44, 527	1.1	7
207	Acoustic phonon sideband dynamics during polaron formation in a single quantum dot. <i>Optics Letters</i> , 2020 , 45, 919-922	3	7
206	Spatial coherence of room-temperature monolayer WSe exciton-polaritons in a trap. <i>Nature Communications</i> , 2021 , 12, 6406	17.4	7
205	Mid infrared DFB interband cascade lasers 2017 ,		7
204	Micro-mechanical assembly and characterization of high-quality Fabry-Pérot microcavities for the integration of two-dimensional materials. <i>Applied Physics Letters</i> , 2021 , 118, 103103	3.4	7
203	On-chip light detection using monolithically integrated quantum dot micropillars. <i>Applied Physics Letters</i> , 2016 , 108, 081110	3.4	7
202	Efficient Quantum Photonic Phase Shift in a Low Q-Factor Regime. <i>ACS Photonics</i> , 2019 , 6, 429-435	6.3	7
201	Excitons in Bilayer MoS ₂ Displaying a Colossal Electric Field Splitting and Tunable Magnetic Response. <i>Physical Review Letters</i> , 2021 , 126, 037401	7.4	7
200	Associative learning with Y-shaped floating gate transistors operated in memristive modes. <i>Applied Physics Letters</i> , 2017 , 110, 053503	3.4	6
199	Magnetic-field-induced splitting and polarization of monolayer-based valley exciton polaritons. <i>Physical Review B</i> , 2019 , 100,	3.3	6
198	Wigner Time Delay Induced by a Single Quantum Dot. <i>Physical Review Letters</i> , 2019 , 122, 107401	7.4	6
197	Structural and optical properties of position-retrievable low-density GaAs droplet epitaxial quantum dots for application to single photon sources with plasmonic optical coupling. <i>Nanoscale Research Letters</i> , 2015 , 10, 114	5	6
196	Impact of lateral carrier confinement on electro-optical tuning properties of polariton condensates. <i>Applied Physics Letters</i> , 2015 , 107, 041108	3.4	6
195	Manipulation of room-temperature valley-coherent exciton-polaritons in atomically thin crystals by real and artificial magnetic fields. <i>2D Materials</i> , 2020 , 7, 035025	5.9	6

194	Continuous-wave operation of vertically emitting ring interband cascade lasers at room temperature. <i>Applied Physics Letters</i> , 2020 , 116, 131101	3.4	6
193	Observation of the Transition from Lasing Driven by a Bosonic to a Fermionic Reservoir in a GaAs Quantum Well Microcavity. <i>Physical Review Letters</i> , 2016 , 117, 127401	7.4	6
192	Determination of operating parameters for a GaAs-based polariton laser. <i>Applied Physics Letters</i> , 2013 , 102, 081115	3.4	6
191	Electrical and optical switching in the bistable regime of an electrically injected polariton laser. <i>Physical Review B</i> , 2017 , 96,	3.3	6
190	High performance direct absorption spectroscopy of pure and binary mixture hydrocarbon gases in the 6-11 (upmu)m range. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	6
189	Exploring coherence of individual excitons in InAs quantum dots embedded in natural photonic defects: Influence of the excitation intensity. <i>Physical Review B</i> , 2017 , 96,	3.3	6
188	Temperature tuning from direct to inverted bistable electroluminescence in resonant tunneling diodes. <i>Journal of Applied Physics</i> , 2017 , 122, 154502	2.5	6
187	Single photon emission of a charge-tunable GaAs/Al _{0.25} Ga _{0.75} As droplet quantum dot device. <i>Applied Physics Letters</i> , 2014 , 105, 081111	3.4	6
186	Molecular beam epitaxial growth of Bi ₂ Se ₃ nanowires and nanoflakes. <i>Applied Physics Letters</i> , 2014 , 105, 133109	3.4	6
185	Site-controlled growth of InP/GaN quantum dots on GaAs substrates. <i>Nanotechnology</i> , 2012 , 23, 375303	3.4	6
184	DFB interband cascade lasers for tunable laser absorption spectroscopy from 3 to 6 μ m 2013 ,		6
183	Carrier loss mechanisms in type II quantum wells for the active region of GaSb-based mid-infrared interband cascade lasers. <i>Optical Materials</i> , 2011 , 33, 1817-1819	3.3	6
182	Room temperature single-electron memory and light sensor with three-dimensionally positioned InAs quantum dots. <i>Applied Physics Letters</i> , 2010 , 97, 222112	3.4	6
181	Highly anisotropic decay rates of single quantum dots in photonic crystal membranes. <i>Optics Letters</i> , 2010 , 35, 2768-70	3	6
180	Influence of light on spin diffusion in weak magnetic fields. <i>Physical Review B</i> , 2009 , 79,	3.3	6
179	. <i>IEEE Transactions on Electron Devices</i> , 2009 , 56, 306-311	2.9	6
178	Weak coupling effects in high-Q electrically driven micropillars. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 381-384		6
177	Distributed feedback quantum cascade lasers at 13.8 μ m on indium phosphide. <i>Applied Physics Letters</i> , 2011 , 98, 211118	3.4	6

176	On the mechanisms of energy transfer between quantum well and quantum dashes. <i>Journal of Applied Physics</i> , 2012 , 112, 033520	2.5	6
175	Proof-of-principle demonstration of compiled Shor's algorithm using a quantum dot single-photon source. <i>Optics Express</i> , 2020 , 28, 18917-18930	3.3	6
174	Bosonic lasers: The state of the art (Review Article). <i>Low Temperature Physics</i> , 2016 , 42, 323-329	0.7	6
173	Polarization-dependent light-matter coupling and highly indistinguishable resonant fluorescence photons from quantum dot-micropillar cavities with elliptical cross section. <i>Physical Review B</i> , 2019 , 100,	3.3	6
172	Excited states of neutral and charged excitons in single strongly asymmetric InP-based nanostructures emitting in the telecom C band. <i>Physical Review B</i> , 2019 , 100,	3.3	6
171	p-Type Doped AlAsSb/GaSb Resonant Tunneling Diode Photodetector for the Mid-Infrared Spectral Region. <i>Advanced Optical Materials</i> , 2018 , 6, 1800972	8.1	6
170	Gate-tunable, normally-on to normally-off memristance transition in patterned LaAlO ₃ /SrTiO ₃ interfaces. <i>Applied Physics Letters</i> , 2017 , 110, 093506	3.4	5
169	Three-dimensional photonic confinement in imprinted liquid crystalline pillar microcavities. <i>Applied Physics Letters</i> , 2017 , 110, 201113	3.4	5
168	Nanoscale Tipping Bucket Effect in a Quantum Dot Transistor-Based Counter. <i>Nano Letters</i> , 2017 , 17, 2273-2279	11.5	5
167	Substrate-emitting ring interband cascade lasers. <i>Applied Physics Letters</i> , 2017 , 111, 171101	3.4	5
166	GaSb/AlAsSb resonant tunneling diodes with GaAsSb emitter prewells. <i>Applied Physics Letters</i> , 2017 , 111, 171104	3.4	5
165	Polarization instability and the nonlinear internal Josephson effect in cavity polariton condensates generated in an excited state in GaAs microcavities of lowered symmetry. <i>Physical Review B</i> , 2017 , 96,	3.3	5
164	Counter-directional polariton coupler. <i>Applied Physics Letters</i> , 2019 , 114, 061102	3.4	5
163	Single photon emission up to liquid nitrogen temperature from charged excitons confined in GaAs-based epitaxial nanostructures. <i>Applied Physics Letters</i> , 2015 , 106, 233107	3.4	5
162	Dynamics of spatial coherence and momentum distribution of polaritons in a semiconductor microcavity under conditions of Bose-Einstein condensation. <i>JETP Letters</i> , 2015 , 101, 513-518	1.2	5
161	Enhanced Fluorescence Resonance Energy Transfer in G-Protein-Coupled Receptor Probes on Nanocoated Microscopy Coverslips. <i>ACS Photonics</i> , 2018 , 5, 2225-2233	6.3	5
160	Photoluminescence quenching mechanisms in type II InAs/GaInSb QWs on InAs substrates. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	5
159	Visualising Berry phase and diabolical points in a quantum exciton-polariton billiard. <i>Scientific Reports</i> , 2016 , 6, 37653	4.9	5

158	Spatial correlation of two-dimensional bosonic multimode condensates. <i>Physical Review A</i> , 2016 , 93,	2.6	5
157	Magnetic-field interaction of spatially confined quantum-well exciton-polaritons. <i>Journal of Physics: Conference Series</i> , 2013 , 456, 012033	0.3	5
156	Dynamics of the optical spin Hall effect. <i>Physical Review B</i> , 2017 , 96,	3.3	5
155	Relaxation Oscillations and Ultrafast Emission Pulses in a Disordered Expanding Polariton Condensate. <i>Scientific Reports</i> , 2017 , 7, 7094	4.9	5
154	Electrical tuning of the oscillator strength in type II InAs/GaInSb quantum wells for active region of passively mode-locked interband cascade lasers. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 110301	1.4	5
153	Room temperature strong coupling in a semiconductor microcavity with embedded AlGaAs quantum wells designed for polariton lasing. <i>Optics Express</i> , 2017 , 25, 24816-24826	3.3	5
152	Transient optical parametric oscillations in resonantly pumped multistable cavity polariton condensates. <i>Physical Review B</i> , 2015 , 92,	3.3	5
151	Submonolayer Uniformity of Type II InAs/GaInSb W-shaped Quantum Wells Probed by Full-Wafer Photoluminescence Mapping in the Mid-infrared Spectral Range. <i>Nanoscale Research Letters</i> , 2015 , 10, 402	5	5
150	Magneto-exciton-polariton condensation in a sub-wavelength high contrast grating based vertical microcavity. <i>Applied Physics Letters</i> , 2014 , 104, 091117	3.4	5
149	Cascaded emission of linearly polarized single photons from positioned InP/GaInP quantum dots. <i>Applied Physics Letters</i> , 2013 , 103, 191113	3.4	5
148	Optically controlled semiconductor spin qubits for quantum information processing. <i>Physica Scripta</i> , 2009 , T137, 014010	2.6	5
147	High-Temperature High-Power Operation of GaInNAs Laser Diodes in the 1220–1240-nm Wavelength Range. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 1766-1768	2.2	5
146	Wide wavelength tuning of GaAs _{1-x} Ga _{1-x} As bound-to-continuum quantum cascade lasers by aluminum content control. <i>Applied Physics Letters</i> , 2008 , 92, 141111	3.4	5
145	Self-gating in an electron Y-branch switch at room temperature. <i>Applied Physics Letters</i> , 2006 , 89, 122109	3.4	5
144	Temperature Dependence of Photoluminescence from Epitaxial InGaAs/GaAs Quantum Dots with High Lateral Aspect Ratio. <i>Acta Physica Polonica A</i> , 2011 , 120, 883-887	0.6	5
143	Direct Generation of Radially Polarized Vector Vortex Beam with an Exciton-Polariton Laser. <i>Physical Review Applied</i> , 2020 , 14,	4.3	5
142	Impact of the Energetic Landscape on Polariton Condensates Propagation along a Coupler. <i>Advanced Optical Materials</i> , 2020 , 8, 2000650	8.1	5
141	Bimodal behavior of microlasers investigated with a two-channel photon-number-resolving transition-edge sensor system. <i>Physical Review Research</i> , 2021 , 3,	3.9	5

140	Heralded Nondestructive Quantum Entangling Gate with Single-Photon Sources. <i>Physical Review Letters</i> , 2021 , 126, 140501	7.4	5
139	Mimicking of pulse shape-dependent learning rules with a quantum dot memristor. <i>Journal of Applied Physics</i> , 2016 , 120, 134503	2.5	5
138	Sharpening emitter localization in front of a tuned mirror. <i>Light: Science and Applications</i> , 2018 , 7, 99	16.7	5
137	Exciton dynamics in solid-state green fluorescent protein. <i>Applied Physics Letters</i> , 2017 , 110, 043703	3.4	4
136	Optimizing the active region of interband cascade lasers for passive mode-locking. <i>AIP Advances</i> , 2017 , 7, 015015	1.5	4
135	Two-kind boson mixture honeycomb Hamiltonian of Bloch exciton-polaritons. <i>Physical Review B</i> , 2019 , 99,	3.3	4
134	On the modified active region design of interband cascade lasers. <i>Journal of Applied Physics</i> , 2015 , 117, 084312	2.5	4
133	Four-wave mixing dynamics of a strongly coupled quantum-dot-microcavity system driven by up to 20 photons. <i>Physical Review B</i> , 2020 , 101,	3.3	4
132	Formation dynamics of exciton-polariton vortices created by nonresonant annular pumping. <i>Physical Review B</i> , 2020 , 101,	3.3	4
131	Innovative mid-infrared detector concepts 2016 ,		4
130	Probing different regimes of strong field light-matter interaction with semiconductor quantum dots and few cavity photons. <i>New Journal of Physics</i> , 2016 , 18, 123031	2.9	4
129	Single-mode interband cascade laser sources for mid-infrared spectroscopic applications 2016 ,		4
128	Electroluminescence on-off ratio control of n ⁺ GaAs/AlGaAs-based resonant tunneling structures. <i>Physical Review B</i> , 2018 , 98,	3.3	4
127	Strongly temperature-dependent recombination kinetics of a negatively charged exciton in asymmetric quantum dots at 1.55 μm . <i>Applied Physics Letters</i> , 2018 , 113, 043103	3.4	4
126	Optical tuning of the charge carrier type in the topological regime of InAs/GaSb quantum wells. <i>Physical Review B</i> , 2018 , 98,	3.3	4
125	Evanescently Coupled DBR Laser Arrays in the 760-770 nm Wavelength Range. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1319-1322	2.2	4
124	Polarization, spectral, and spatial emission characteristics of chiral semiconductor nanostructures. <i>JETP Letters</i> , 2017 , 106, 643-647	1.2	4
123	Effect of Confinement Anisotropy on Excitonic Properties in InAs/InP Quantum Dashes. <i>Acta Physica Polonica A</i> , 2013 , 124, 801-804	0.6	4

122	Influence of GaSb and AlGaInAsSb as Barrier Material on $\sim 2.8\text{-}\mu\text{m}$ GaSb-Based Diode Laser Properties. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 371-373	2.2	4
121	Immersion Layer in Columnar Quantum Dash Structure as a Polarization Insensitive Light Emitter at $1.55\ \mu\text{m}$. <i>Applied Physics Express</i> , 2009 , 2, 061102	2.4	4
120	Mode switching and singlemode tuning in two-segment distributed feedback quantum cascade lasers. <i>Electronics Letters</i> , 2006 , 42, 220	1.1	4
119	Photonic crystal quantum cascade lasers with improved threshold characteristics operating at room temperature. <i>Applied Physics Letters</i> , 2006 , 89, 191113	3.4	4
118	1240nm high-power GaInNAs laser diodes. <i>Optics Express</i> , 2007 , 15, 15187-92	3.3	4
117	Influence of injector doping density and electron confinement on the properties of GaAs/Al _{0.45} Ga _{0.55} As quantum cascade lasers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 411-414		4
116	Tracking Dark Excitons with Exciton Polaritons in Semiconductor Microcavities. <i>Physical Review Letters</i> , 2019 , 122, 047403	7.4	4
115	Demonstration of a polariton step potential by local variation of light-matter coupling in a van-der-Waals heterostructure. <i>Optics Express</i> , 2020 , 28, 18649-18657	3.3	4
114	Observation of Intensity Squeezing in Resonance Fluorescence from a Solid-State Device. <i>Physical Review Letters</i> , 2020 , 125, 153601	7.4	4
113	Efficient stray-light suppression for resonance fluorescence in quantum dot micropillars using self-aligned metal apertures. <i>Semiconductor Science and Technology</i> , 2016 , 31, 095007	1.8	4
112	Time-bin entangled photon pairs from quantum dots embedded in a self-aligned cavity. <i>Optics Express</i> , 2021 , 29, 4174-4180	3.3	4
111	Tunable exciton-polaritons emerging from WS monolayer excitons in a photonic lattice at room temperature. <i>Nature Communications</i> , 2021 , 12, 4933	17.4	4
110	Optical probing of the Coulomb interactions of an electrically pumped polariton condensate. <i>Applied Physics Letters</i> , 2017 , 110, 151103	3.4	3
109	Quantum-dot micropillar lasers subject to coherent time-delayed optical feedback from a short external cavity. <i>Scientific Reports</i> , 2019 , 9, 631	4.9	3
108	Optimizing the spectro-temporal properties of photon pairs from Bragg-reflection waveguides. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 054001	1.7	3
107	High resolution quantitative multi-species hydrocarbon gas sensing with a cw external cavity quantum cascade laser based spectrometer in the $6\text{-}11\ \mu\text{m}$ range. <i>Journal of Applied Physics</i> , 2019 , 125, 134501	2.5	3
106	Photocurrent readout and electro-optical tuning of resonantly excited exciton polaritons in a trap. <i>Physical Review B</i> , 2015 , 91,	3.3	3
105	Cavity-enhanced AlGaAs/GaAs resonant tunneling photodetectors for telecommunication wavelength light detection at $1.3\ \mu\text{m}$ 2015 ,		3

104	Resonant tunneling of electrons in AlSb/GaInAsSb double barrier quantum wells. <i>AIP Advances</i> , 2020 , 10, 055024	1.5	3
103	Multiphoton Graph States from a Solid-State Single-Photon Source. <i>ACS Photonics</i> , 2020 , 7, 1603-1610	6.3	3
102	Photoresponse of resonant tunneling diode photodetectors as a function of bias voltage 2016 ,		3
101	Impact of exsitu rapid thermal annealing on magneto-optical properties and oscillator strength of In(Ga)As quantum dots. <i>Physical Review B</i> , 2016 , 93,	3.3	3
100	Direct fiber-coupled single photon source based on a photonic crystal waveguide. <i>Applied Physics Letters</i> , 2015 , 107, 081113	3.4	3
99	Low dimensional GaAs/air vertical microcavity lasers. <i>Applied Physics Letters</i> , 2014 , 104, 081113	3.4	3
98	Interband cascade lasers for the mid-infrared spectral region 2014 ,		3
97	Single quantum dot photocurrent spectroscopy in the cavity quantum electrodynamics regime. <i>Physical Review B</i> , 2012 , 86,	3.3	3
96	Mode-Controlled Tapered Lasers Based on Quantum Dots. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009 , 15, 780-784	3.8	3
95	Short wavelength emission of AlGaInP quantum dots grown on GaP substrate. <i>Nanotechnology</i> , 2011 , 22, 415604	3.4	3
94	Quantum Cascade Microlasers With Two-Dimensional Photonic Crystal Reflectors. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1937-1939	2.2	3
93	Room temperature operation of ultra-short quantum cascade lasers with deeply etched Bragg mirrors. <i>Electronics Letters</i> , 2005 , 41, 704	1.1	3
92	Distributed Feedback Interband Cascade Lasers and their Spectroscopic Applications in Gas Sensing 2014 ,		3
91	Single Semiconductor Quantum Dots in Microcavities: Bright Sources of Indistinguishable Photons. <i>Nano-optics and Nanophotonics</i> , 2015 , 343-361	0	3
90	Exciton-Polariton Condensates in Zero-, One-, and Two-Dimensional Lattices. <i>Springer Series in Solid-state Sciences</i> , 2013 , 157-175	0.4	3
89	Quantum Beat between Sunlight and Single Photons. <i>Nano Letters</i> , 2020 , 20, 152-157	11.5	3
88	Microfiber-microcavity system for efficient single photon collection. <i>Optics Express</i> , 2016 , 24, 23471-23480	9.9	3
87	Ultrafast Manipulation of a Strongly Coupled Light-Matter System by a Giant ac Stark Effect. <i>ACS Photonics</i> , 2019 , 6, 3076-3081	6.3	3

86	Interband Cascade Laser Arrays for Simultaneous and Selective Analysis of C1-C5 Hydrocarbons in Petrochemical Industry. <i>Applied Spectroscopy</i> , 2021 , 75, 336-342	3.1	3
85	Propagative Oscillations in Codirectional Polariton Waveguide Couplers. <i>Physical Review Letters</i> , 2021 , 126, 075302	7.4	3
84	Understanding photoluminescence in semiconductor Bragg-reflection waveguides. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 035801	1.7	3
83	Controlling the gain contribution of background emitters in few-quantum-dot microlasers. <i>New Journal of Physics</i> , 2018 , 20, 023036	2.9	3
82	Defect-induced magnetism in II-VI quantum dots. <i>Physical Review B</i> , 2019 , 99,	3.3	2
81	Widely-tunable interband cascade lasers for the mid-infrared 2015 ,		2
80	Spatial and temporal dynamics of the crossover from exciton-polariton condensation to photon lasing. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 092801	1.4	2
79	Optomechanical tuning of the polarization properties of micropillar cavity systems with embedded quantum dots. <i>Physical Review B</i> , 2020 , 101,	3.3	2
78	Effect of Dielectric Medium Anisotropy on the Polarization Degree of Emission from a Single Quantum Dash. <i>Acta Physica Polonica A</i> , 2016 , 129, A-48-A-52	0.6	2
77	Resonance fluorescence from an atomic-quantum-memory compatible single photon source based on GaAs droplet quantum dots. <i>Applied Physics Letters</i> , 2018 , 113, 021102	3.4	2
76	Photon-number parity of heralded single photons from a Bragg-reflection waveguide reconstructed loss-tolerantly via moment generating function. <i>New Journal of Physics</i> , 2019 , 21, 103025 ^{2.9}		2
75	Carrier transfer between confined and localized states in type II InAs/GaAsSb quantum wells. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	2
74	Exciton-polariton laser diodes 2014 ,		2
73	Multiexcitonic emission from single elongated InGaAs/GaAs quantum dots. <i>Journal of Applied Physics</i> , 2012 , 111, 063522	2.5	2
72	Exciton-polariton lasers in Magnetic Fields 2013 ,		2
71	Waveguide superconducting single-photon autocorrelators for quantum photonic applications 2013 ,		2
70	Acetylene measurement using quantum cascade lasers at 14 μ m 2011 ,		2
69	Above GaSb barrier in type II quantum well structures for mid-infrared emission detected by Fourier-transformed modulated reflectivity. <i>Opto-electronics Review</i> , 2011 , 19,	2.4	2

68	In-plane manipulation of quantum dots in high quality laterally contacted micropillar cavities. <i>Applied Physics Letters</i> , 2011 , 98, 191111	3.4	2
67	Highly efficient electrically triggered quantum dot micropillar single photon source. <i>Journal of Physics: Conference Series</i> , 2010 , 245, 012005	0.3	2
66	Selective etching of independent contacts in a double quantum-well structure: Quantum-gate transistor. <i>Applied Physics Letters</i> , 2008 , 92, 062101	3.4	2
65	Discretely tunable single-mode lasers on GaSb using two-dimensional photonic crystal intracavity mirrors. <i>Nanotechnology</i> , 2008 , 19, 235202	3.4	2
64	Ultra-compact high transmittance photonic wire bends for monolithic integration on III/V-semiconductors. <i>Electronics Letters</i> , 2006 , 42, 1280	1.1	2
63	Electro-optical Switching of a Topological Polariton Laser. <i>ACS Photonics</i> ,	6.3	2
62	Room Temperature Carrier Kinetics in the W-type GaInAsSb/InAs/AlSb Quantum Well Structure Emitting in Mid-Infrared Spectral Range. <i>Acta Physica Polonica A</i> , 2016 , 130, 1224-1228	0.6	2
61	InAs on InP Quantum Dashes as Single Photon Emitters at the Second Telecommunication Window: Optical, Kinetic, and Excitonic Properties. <i>Acta Physica Polonica A</i> , 2017 , 132, 382-386	0.6	2
60	Determining the linewidth enhancement factor via optical feedback in quantum dot micropillar lasers. <i>Optics Express</i> , 2018 , 26, 31363-31371	3.3	2
59	Single-mode interband cascade laser multiemitter structure for two-wavelength absorption spectroscopy. <i>Optical Engineering</i> , 2017 , 57, 1	1.1	2
58	Observation of gain-pinned dissipative solitons in a microcavity laser. <i>APL Photonics</i> , 2020 , 5, 086103	5.2	2
57	Directional Coupler: Impact of the Energetic Landscape on Polariton Condensates Propagation along a Coupler (Advanced Optical Materials 18/2020). <i>Advanced Optical Materials</i> , 2020 , 8, 2070072	8.1	2
56	Fiber-pigtailing quantum-dot cavity-enhanced light emitting diodes. <i>Applied Physics Letters</i> , 2021 , 119, 131104	3.4	2
55	Polariton Laser in the Bardeen-Cooper-Schrieffer Regime. <i>Physical Review X</i> , 2021 , 11,	9.1	2
54	Determination of Carrier Density and Dynamics via Magneto-electroluminescence Spectroscopy in Resonant-Tunneling Diodes. <i>Physical Review Applied</i> , 2021 , 15,	4.3	2
53	Hybridized Exciton-Photon-Phonon States in a Transition Metal Dichalcogenide van der Waals Heterostructure Microcavity.. <i>Physical Review Letters</i> , 2022 , 128, 087401	7.4	2
52	Jitter of condensation time and dynamics of spontaneous symmetry breaking in a gas of microcavity polaritons. <i>Physical Review B</i> , 2019 , 99,	3.3	1
51	The issue of 0D-like ground state isolation in GaAs- and InP-based coupled quantum dots-quantum well systems. <i>Journal of Physics: Conference Series</i> , 2017 , 906, 012019	0.3	1

50	Photon Echo from an Ensemble of (In,Ga)As Quantum Dots. <i>Semiconductors</i> , 2018 , 52, 531-534	0.7	1
49	AlGaInAs Quantum Dots for Intermediate Band Formation in Solar Cell Devices. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014 , 167-186	0.3	1
48	Acousto-optical nanoscopy of buried photonic nanostructures. <i>Optica</i> , 2017 , 4, 588	8.6	1
47	Introduction to Issue on Semiconductor Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 6-8	3.8	1
46	An electrically pumped polariton laser 2015 ,		1
45	Distributed feedback interband cascade lasers for spectroscopy from 3-6 μm 2014 ,		1
44	Characterization of GaAs/AlGaAs resonant tunneling diodes with a GaInNAs absorption layer as 1.3 μm photo sensors 2012 ,		1
43	Recent advances in GaSb-based structures for mid-infrared emitting lasers: spectroscopic study 2013 ,		1
42	GaAs-Based Quantum Well Exciton-Polaritons beyond 1 μm . <i>Acta Physica Polonica A</i> , 2013 , 124, 817-820	0.6	1
41	Cavity quantum electrodynamics studies with site-controlled InGaAs quantum dots integrated into high quality microcavities 2011 ,		1
40	Tunable Long Wavelength ($\sim 2.8 \mu\text{m}$) GaInAsSb/GaSb Quantum-Well Binary Superimposed Grating Lasers. <i>IEEE Photonics Technology Letters</i> , 2010 ,	2.2	1
39	Multi-dimensional laser spectroscopy of exciton polaritons with spatial light modulators. <i>Applied Physics Letters</i> , 2012 , 100, 072109	3.4	1
38	Mid infrared interband cascade lasers for sensing applications. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 100, 275-278	1.9	1
37	Nanostructured semiconductors for optoelectronic applications 2006 ,		1
36	Monomodige DFB-Quantenkaskadenlaser mit Metall-Bragg-Rückkopplungsgittern (Single Mode Quantum Cascade DFB-Lasers with Metal Bragg gratings). <i>TM Technisches Messen</i> , 2005 , 72,	0.7	1
35	GaAs/AlGaAs-Quantenkaskaden-Laser (GaAs/AlGaAs Quantum Cascade Lasers). <i>TM Technisches Messen</i> , 2005 , 72,	0.7	1
34	Optical charge injection and coherent control of a quantum-dot spin-qubit emitting at telecom wavelengths.. <i>Nature Communications</i> , 2022 , 13, 748	17.4	1
33	High quality factor GaAs microcavity with buried bullseye defects. <i>Physical Review Materials</i> , 2018 , 2,	3.2	1

32	Mid-infrared detectors based on resonant tunneling diodes and interband cascade structures 2018 ,		1
31	Semiconductor Cavity Quantum Electrodynamics with Single Quantum Dots. <i>Acta Physica Polonica A</i> , 2009 , 116, 445-450	0.6	1
30	An electrically pumped polariton laser 2013 ,		1
29	Picosecond ultrasonics with miniaturized semiconductor lasers. <i>Ultrasonics</i> , 2020 , 106, 106150	3.5	1
28	Long wavelength interband cascade lasers on GaSb substrates 2017 ,		1
27	Lateral Spin Diffusion Probed by Two-Color Hanle-MOKE Technique. <i>Acta Physica Polonica A</i> , 2008 , 114, 1311-1316	0.6	1
26	An electrically driven polariton laser 2013 ,		1
25	Accurate photon echo timing by optical freezing of exciton dephasing and rephasing in quantum dots. <i>Communications Physics</i> , 2020 , 3,	5.4	1
24	A broad-band planar-microcavity quantum-dot single-photon source with a solid immersion lens. <i>Applied Physics Letters</i> , 2021 , 118, 174001	3.4	1
23	Room temperature memristive switching in nano-patterned LaAlO ₃ /SrTiO ₃ wires with laterally defined gates. <i>Applied Physics Letters</i> , 2021 , 118, 153502	3.4	1
22	Influence of carrier concentration on properties of InAs waveguide layers in interband cascade laser structures. <i>Journal of Applied Physics</i> , 2016 , 120, 043104	2.5	1
21	Transient Oscillatory Behaviors of Polariton Condensates. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 094401	1.5	1
20	Optical Mapping of Nonequilibrium Charge Carriers. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14741-14780	3.8	1
19	Difference-frequency generation in an AlGaAs Bragg-reflection waveguide using an on-chip electrically-pumped quantum dot laser. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 085802	1.7	1
18	Quantifying Quantum Coherence in Polariton Condensates. <i>PRX Quantum</i> , 2021 , 2,	6.1	1
17	Bloch Oscillations of Hybrid Light-Matter Particles in a Waveguide Array. <i>Advanced Optical Materials</i> , 2021 , 9, 2100126	8.1	0
16	Studies of photon echo from exciton ensemble in (In,Ga)As quantum dots. <i>Journal of Physics: Conference Series</i> , 2018 , 951, 012029	0.3	0
15	Laterally coupled DFB interband cascade laser with tapered ridge. <i>Electronics Letters</i> , 2017 , 53, 743-744	1.1	

- 14 Localization-Delocalization Transition in Disordered One-Dimensional Exciton-Polariton System. *Semiconductors*, **2018**, 52, 458-461 0.7
- 13 Probing the carrier transfer processes in a self-assembled system with In_{0.3}Ga_{0.7}As/GaAs quantum dots by photoluminescence excitation spectroscopy. *Superlattices and Microstructures*, **2016**, 93, 214-220^{2.8}
- 12 Oscillations of the Degree of Circular Polarization in the Optical Spin Hall Effect. *Physics of the Solid State*, **2018**, 60, 1606-1610 0.8
- 11 A detailed study of self-assembled (Al,Ga)InP quantum dots grown by molecular beam epitaxy. *Physica Status Solidi (A) Applications and Materials Science*, **2014**, 211, 2601-2610 1.6
- 10 Optimizing single-mode collection from pointlike sources of single photons with adaptive optics. *Optics Express*, **2017**, 25, 18629-18642 3.3
- 9 Optical Properties of Quantum Dashes. *Solid State Phenomena*, **2014**, 213, 3-11 0.4
- 8 Magneto-optical cavity quantum electrodynamics effects in quantum dot - micropillar systems. *Journal of Physics: Conference Series*, **2011**, 334, 012011 0.3
- 7 Comparative Analysis of 1.5 μm GaAs/AlGaAs Quantum Cascade Lasers with Different Injector Doping. *Materials Science Forum*, **2006**, 518, 29-34 0.4
- 6 Topologischer Laser mit vertikalen Resonatoren. *Physik in Unserer Zeit*, **2022**, 53, 6-7 0.1
- 5 Hyperspectral study of the coupling between trions in WSe₂ monolayers to a circular Bragg grating cavity. *Comptes Rendus Physique*, **2021**, 22, 1-9 1.4
- 4 Half adder capabilities of a coupled quantum dot device. *Nanotechnology*, **2016**, 27, 215201 3.4
- 3 Topologischer Isolator aus Licht und Materie. *Physik in Unserer Zeit*, **2019**, 50, 11-12 0.1
- 2 Double-waveguide interband cascade laser with dual-wavelength emission. *Applied Physics Letters*, **2018**, 113, 251105 3.4
- 1 Effects of the Linear Polarization of Polariton Condensates in Their Propagation in Codirectional Couplers. *ACS Photonics*, **2021**, 8, 2489-2497 6.3