

Sven Hofling

List of Publications by Year in Descending Order

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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.

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	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
570	Topologischer Laser mit vertikalen Resonatoren. <i>Physik in Unserer Zeit</i> , 2022 , 53, 6-7	0.1	
569	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
568	Spatial coherence of room-temperature monolayer WSe exciton-polaritons in a trap. <i>Nature Communications</i> , 2021 , 12, 6406	17.4	7
567	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
566	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
565	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
564	Coherent Topological Polariton Laser. <i>ACS Photonics</i> , 2021 , 8, 1377-1384	6.3	9
563	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
562	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
561	Heralded Nondestructive Quantum Entangling Gate with Single-Photon Sources. <i>Physical Review Letters</i> , 2021 , 126, 140501	7.4	5
560	Bosonic condensation of exciton-polaritons in an atomically thin crystal. <i>Nature Materials</i> , 2021 , 20, 1233-1239	12.39	10
559	Bloch Oscillations of Hybrid Light-Matter Particles in a Waveguide Array. <i>Advanced Optical Materials</i> , 2021 , 9, 2100126	8.1	0
558	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
557	Hyperspectral study of the coupling between trions in WSe ₂ monolayers to a circular Bragg grating cavity. <i>Comptes Rendus Physique</i> , 2021 , 22, 1-9	1.4	
556	Interband Cascade Laser Arrays for Simultaneous and Selective Analysis of C ₁ -C ₅ Hydrocarbons in Petrochemical Industry. <i>Applied Spectroscopy</i> , 2021 , 75, 336-342	3.1	3
555	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

554	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
553	Propagative Oscillations in Codirectional Polariton Waveguide Couplers. <i>Physical Review Letters</i> , 2021 , 126, 075302	7.4	3
552	Understanding photoluminescence in semiconductor Bragg-reflection waveguides. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 035801	1.7	3
551	Optical Mapping of Nonequilibrium Charge Carriers. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14741-14750	3.5	1
550	Room-Temperature Topological Polariton Laser in an Organic Lattice. <i>Nano Letters</i> , 2021 , 21, 6398-6405	11.5	9
549	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
548	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
547	Quantifying Quantum Coherence in Polariton Condensates. <i>PRX Quantum</i> , 2021 , 2,	6.1	1
546	Effects of the Linear Polarization of Polariton Condensates in Their Propagation in Codirectional Couplers. <i>ACS Photonics</i> , 2021 , 8, 2489-2497	6.3	
545	Fiber-pigtailing quantum-dot cavity-enhanced light emitting diodes. <i>Applied Physics Letters</i> , 2021 , 119, 131104	3.4	2
544	Topological insulator vertical-cavity laser array. <i>Science</i> , 2021 , 373, 1514-1517	33.3	16
543	Polariton Laser in the Bardeen-Cooper-Schrieffer Regime. <i>Physical Review X</i> , 2021 , 11,	9.1	2
542	Determination of Carrier Density and Dynamics via Magneto-electroluminescence Spectroscopy in Resonant-Tunneling Diodes. <i>Physical Review Applied</i> , 2021 , 15,	4.3	2
541	Extending Quantum Links: Modules for Fiber- and Memory-Based Quantum Repeaters. <i>Advanced Quantum Technologies</i> , 2020 , 3, 1900141	4.3	14
540	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
539	Spatio-temporal coherence in vertically emitting GaAs-based electrically driven polariton lasers. <i>Applied Physics Letters</i> , 2020 , 116, 171103	3.4	7
538	Resonant tunneling of electrons in AlSb/GaInAsSb double barrier quantum wells. <i>AIP Advances</i> , 2020 , 10, 055024	1.5	3
537	Optomechanical tuning of the polarization properties of micropillar cavity systems with embedded quantum dots. <i>Physical Review B</i> , 2020 , 101,	3.3	2

536	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
535	Multiphoton Graph States from a Solid-State Single-Photon Source. <i>ACS Photonics</i> , 2020 , 7, 1603-1610	6.3	3
534	Room temperature organic exciton-polariton condensate in a lattice. <i>Nature Communications</i> , 2020 , 11, 2863	17.4	30
533	Formation dynamics of exciton-polariton vortices created by nonresonant annular pumping. <i>Physical Review B</i> , 2020 , 101,	3.3	4
532	Emergence of microfrequency comb via limit cycles in dissipatively coupled condensates. <i>Physical Review B</i> , 2020 , 101,	3.3	11
531	Realization of all-optical vortex switching in exciton-polariton condensates. <i>Nature Communications</i> , 2020 , 11, 897	17.4	22
530	Continuous-wave operation of vertically emitting ring interband cascade lasers at room temperature. <i>Applied Physics Letters</i> , 2020 , 116, 131101	3.4	6
529	Proof-of-principle demonstration of compiled ShorQ algorithm using a quantum dot single-photon source. <i>Optics Express</i> , 2020 , 28, 18917-18930	3.3	6
528	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
527	Acoustic phonon sideband dynamics during polaron formation in a single quantum dot. <i>Optics Letters</i> , 2020 , 45, 919-922	3	7
526	Picosecond ultrasonics with miniaturized semiconductor lasers. <i>Ultrasonics</i> , 2020 , 106, 106150	3.5	1
525	Coherence and Interaction in Confined Room-Temperature Polariton Condensates with Frenkel Excitons. <i>ACS Photonics</i> , 2020 , 7, 384-392	6.3	22
524	Quantum Beat between Sunlight and Single Photons. <i>Nano Letters</i> , 2020 , 20, 152-157	11.5	3
523	Direct Generation of Radially Polarized Vector Vortex Beam with an Exciton-Polariton Laser. <i>Physical Review Applied</i> , 2020 , 14,	4.3	5
522	Observation of Intensity Squeezing in Resonance Fluorescence from a Solid-State Device. <i>Physical Review Letters</i> , 2020 , 125, 153601	7.4	4
521	Observation of gain-pinned dissipative solitons in a microcavity laser. <i>APL Photonics</i> , 2020 , 5, 086103	5.2	2
520	Impact of the Energetic Landscape on Polariton CondensatesQPropagation along a Coupler. <i>Advanced Optical Materials</i> , 2020 , 8, 2000650	8.1	5
519	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

518	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
517	Exciton-polaritons in flatland: Controlling flatband properties in a Lieb lattice. <i>Physical Review B</i> , 2020 , 102,	3.3	12
516	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
515	Accurate photon echo timing by optical freezing of exciton dephasing and rephasing in quantum dots. <i>Communications Physics</i> , 2020 , 3,	5.4	1
514	Strain-Tunable Single Photon Sources in WSe Monolayers. <i>Nano Letters</i> , 2019 , 19, 6931-6936	11.5	33
513	Magnetic-field-induced splitting and polarization of monolayer-based valley exciton polaritons. <i>Physical Review B</i> , 2019 , 100,	3.3	6
512	Defect-induced magnetism in II-VI quantum dots. <i>Physical Review B</i> , 2019 , 99,	3.3	2
511	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
510	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
509	Two-kind boson mixture honeycomb Hamiltonian of Bloch exciton-polaritons. <i>Physical Review B</i> , 2019 , 99,	3.3	4
508	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
507	Near-Unity Indistinguishability Single Photon Source for Large-Scale Integrated Quantum Optics. <i>Physical Review Letters</i> , 2019 , 122, 173602	7.4	22
506	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
505	Nonresonant spin selection methods and polarization control in exciton-polariton condensates. <i>Physical Review B</i> , 2019 , 99,	3.3	10
504	Counter-directional polariton coupler. <i>Applied Physics Letters</i> , 2019 , 114, 061102	3.4	5
503	Wigner Time Delay Induced by a Single Quantum Dot. <i>Physical Review Letters</i> , 2019 , 122, 107401	7.4	6
502	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
501	High resolution quantitative multi-species hydrocarbon gas sensing with a cw external cavity quantum cascade laser based spectrometer in the 6-11 μ m range. <i>Journal of Applied Physics</i> , 2019 , 125, 134501	2.5	3

500	Quantum Interference between Light Sources Separated by 150 Million Kilometers. <i>Physical Review Letters</i> , 2019 , 123, 080401	7.4	28
499	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
498	Towards optimal single-photon sources from polarized microcavities. <i>Nature Photonics</i> , 2019 , 13, 770-775	33.9	141
497	Coherently driving a single quantum two-level system with dichromatic laser pulses. <i>Nature Physics</i> , 2019 , 15, 941-946	16.2	29
496	Quantum frequency conversion of a quantum dot single-photon source on a nanophotonic chip. <i>Optica</i> , 2019 , 6, 563	8.6	31
495	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
494	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
493	Strain-Tunable Single-Photon Source Based on a Quantum Dot Micropillar System. <i>ACS Photonics</i> , 2019 , 6, 2025-2031	6.3	12
492	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
491	Tracking Dark Excitons with Exciton Polaritons in Semiconductor Microcavities. <i>Physical Review Letters</i> , 2019 , 122, 047403	7.4	4
490	Stochastic polarization switching induced by optical injection in bimodal quantum-dot micropillar lasers. <i>Optics Express</i> , 2019 , 27, 28816-28831	3.3	9
489	Resolving the temporal evolution of line broadening in single quantum emitters. <i>Optics Express</i> , 2019 , 27, 35290-35307	3.3	15
488	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
487	Monolithic frequency comb platform based on interband cascade lasers and detectors. <i>Optica</i> , 2019 , 6, 890	8.6	34
486	Picosecond pulses from a mid-infrared interband cascade laser. <i>Optica</i> , 2019 , 6, 1334	8.6	26
485	High efficiency mid-infrared interband cascade LEDs grown on low absorbing substrates emitting >5 mW of output power. <i>Optical Engineering</i> , 2019 , 58, 1	1.1	8
484	Towards polariton blockade of confined exciton-polaritons. <i>Nature Materials</i> , 2019 , 18, 219-222	27	87
483	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

482	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
481	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
480	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
479	Topologischer Isolator aus Licht und Materie. <i>Physik in Unserer Zeit</i> , 2019 , 50, 11-12	0.1	
478	Efficient Quantum Photonic Phase Shift in a Low Q-Factor Regime. <i>ACS Photonics</i> , 2019 , 6, 429-435	6.3	7
477	Monolithic High-Contrast Grating Based Polariton Laser. <i>ACS Photonics</i> , 2019 , 6, 18-22	6.3	12
476	Mid-infrared GaSb-based resonant tunneling diode photodetectors for gas sensing applications. <i>Applied Physics Letters</i> , 2018 , 112, 161107	3.4	15
475	Localization-Delocalization Transition in Disordered One-Dimensional Exciton-Polariton System. <i>Semiconductors</i> , 2018 , 52, 458-461	0.7	
474	Photonic engineering of highly linearly polarized quantum dot emission at telecommunication wavelengths. <i>Physical Review B</i> , 2018 , 97,	3.3	9
473	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
472	Photon Echo from an Ensemble of (In,Ga)As Quantum Dots. <i>Semiconductors</i> , 2018 , 52, 531-534	0.7	1
471	The interplay between excitons and trions in a monolayer of MoSe ₂ . <i>Applied Physics Letters</i> , 2018 , 112, 031107	3.4	19
470	Evolution of Temporal Coherence in Confined Exciton-Polariton Condensates. <i>Physical Review Letters</i> , 2018 , 120, 017401	7.4	17
469	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
468	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
467	Tunable Light-Matter Hybridization in Open Organic Microcavities. <i>ACS Photonics</i> , 2018 , 5, 90-94	6.3	15
466	Electroluminescence on-off ratio control of n ⁺ GaAs/AlGaAs-based resonant tunneling structures. <i>Physical Review B</i> , 2018 , 98,	3.3	4
465	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

464	Photon-Number-Resolved Measurement of an Exciton-Polariton Condensate. <i>Physical Review Letters</i> , 2018 , 121, 047401	7.4	17
463	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
462	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
461	Two-dimensional semiconductors in the regime of strong light-matter coupling. <i>Nature Communications</i> , 2018 , 9, 2695	17.4	157
460	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
459	Observation of bosonic condensation in a hybrid monolayer MoSe-GaAs microcavity. <i>Nature Communications</i> , 2018 , 9, 3286	17.4	34
458	Invited Article: Time-bin entangled photon pairs from Bragg-reflection waveguides. <i>APL Photonics</i> , 2018 , 3, 080804	5.2	10
457	Oscillations of the Degree of Circular Polarization in the Optical Spin Hall Effect. <i>Physics of the Solid State</i> , 2018 , 60, 1606-1610	0.8	
456	Toward Scalable Boson Sampling with Photon Loss. <i>Physical Review Letters</i> , 2018 , 120, 230502	7.4	69
455	High quality factor GaAs microcavity with buried bullseye defects. <i>Physical Review Materials</i> , 2018 , 2,	3.2	1
454	Mid-infrared detectors based on resonant tunneling diodes and interband cascade structures 2018 ,		1
453	Determining the linewidth enhancement factor via optical feedback in quantum dot micropillar lasers. <i>Optics Express</i> , 2018 , 26, 31363-31371	3.3	2
452	Rabi oscillations of a quantum dot exciton coupled to acoustic phonons: coherence and population readout. <i>Optica</i> , 2018 , 5, 1442	8.6	11
451	Signatures of a dissipative phase transition in photon correlation measurements. <i>Nature Physics</i> , 2018 , 14, 365-369	16.2	68
450	Controlled Ordering of Topological Charges in an Exciton-Polariton Chain. <i>Physical Review Letters</i> , 2018 , 121, 225302	7.4	15
449	Controlling the gain contribution of background emitters in few-quantum-dot microlasers. <i>New Journal of Physics</i> , 2018 , 20, 023036	2.9	3
448	Double-waveguide interband cascade laser with dual-wavelength emission. <i>Applied Physics Letters</i> , 2018 , 113, 251105	3.4	
447	Platform for Electrically Pumped Polariton Simulators and Topological Lasers. <i>Physical Review Letters</i> , 2018 , 121, 257402	7.4	21

446	Sharpening emitter localization in front of a tuned mirror. <i>Light: Science and Applications</i> , 2018 , 7, 99	16.7	5
445	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
444	Exciton-polariton topological insulator. <i>Nature</i> , 2018 , 562, 552-556	50.4	222
443	Deterministic coupling of quantum emitters in WSe monolayers to plasmonic nanocavities. <i>Optics Express</i> , 2018 , 26, 25944-25951	3.3	22
442	Transient Oscillatory Behaviors of Polariton Condensates. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 094401	1.5	1
441	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
440	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
439	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
438	Exploring the Photon-Number Distribution of Bimodal Microlasers with a Transition Edge Sensor. <i>Physical Review Applied</i> , 2018 , 9,	4.3	21
437	Room temperature operation of GaSb-based resonant tunneling diodes by prewell injection. <i>Applied Physics Letters</i> , 2017 , 110, 033507	3.4	8
436	Exciton dynamics in solid-state green fluorescent protein. <i>Applied Physics Letters</i> , 2017 , 110, 043703	3.4	4
435	Optimizing the active region of interband cascade lasers for passive mode-locking. <i>AIP Advances</i> , 2017 , 7, 015015	1.5	4
434	Molding Photonic Boxes into Fluorescent Emitters by Direct Laser Writing. <i>Advanced Materials</i> , 2017 , 29, 1605236	24	7
433	Photon echoes from (In,Ga)As quantum dots embedded in a Tamm-plasmon microcavity. <i>Physical Review B</i> , 2017 , 95,	3.3	16
432	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
431	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
430	Influence of optical material properties on strong coupling in organic semiconductor based microcavities. <i>Applied Physics Letters</i> , 2017 , 110, 153302	3.4	18
429	Optical probing of the Coulomb interactions of an electrically pumped polariton condensate. <i>Applied Physics Letters</i> , 2017 , 110, 151103	3.4	3

428	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
427	High-efficiency multiphoton boson sampling. <i>Nature Photonics</i> , 2017 , 11, 361-365	33.9	247
426	Laterally coupled DFB interband cascade laser with tapered ridge. <i>Electronics Letters</i> , 2017 , 53, 743-744	1.1	
425	Three-dimensional photonic confinement in imprinted liquid crystalline pillar microcavities. <i>Applied Physics Letters</i> , 2017 , 110, 201113	3.4	5
424	Associative learning with Y-shaped floating gate transistors operated in memristive modes. <i>Applied Physics Letters</i> , 2017 , 110, 053503	3.4	6
423	Electrically Tunable Single-Photon Source Triggered by a Monolithically Integrated Quantum Dot Microlaser. <i>ACS Photonics</i> , 2017 , 4, 790-794	6.3	22
422	Picosecond Control of Quantum Dot Laser Emission by Coherent Phonons. <i>Physical Review Letters</i> , 2017 , 118, 133901	7.4	15
421	Transition from Jaynes-Cummings to Autler-Townes ladder in a quantum dot-microcavity system. <i>Physical Review B</i> , 2017 , 95,	3.3	10
420	Nanoscale Tipping Bucket Effect in a Quantum Dot Transistor-Based Counter. <i>Nano Letters</i> , 2017 , 17, 2273-2279	11.5	5
419	Substrate-emitting ring interband cascade lasers. <i>Applied Physics Letters</i> , 2017 , 111, 171101	3.4	5
418	GaSb/AlAsSb resonant tunneling diodes with GaAsSb emitter prewells. <i>Applied Physics Letters</i> , 2017 , 111, 171104	3.4	5
417	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
416	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
415	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
414	Dynamics of the optical spin Hall effect. <i>Physical Review B</i> , 2017 , 96,	3.3	5
413	Emission from quantum-dot high- Γ 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
412	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
411	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

410	Electrical and optical switching in the bistable regime of an electrically injected polariton laser. <i>Physical Review B</i> , 2017 , 96,	3.3	6
409	Prototype of a bistable polariton field-effect transistor switch. <i>Scientific Reports</i> , 2017 , 7, 5114	4.9	7
408	Relaxation Oscillations and Ultrafast Emission Pulses in a Disordered Expanding Polariton Condensate. <i>Scientific Reports</i> , 2017 , 7, 7094	4.9	5
407	High performance direct absorption spectroscopy of pure and binary mixture hydrocarbon gases in the 6–11 (µm) range. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	6
406	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
405	Exciton-polariton flows in cross-dimensional junctions. <i>Physical Review B</i> , 2017 , 95,	3.3	7
404	Strong light-matter coupling in the presence of lasing. <i>Physical Review A</i> , 2017 , 96,	2.6	15
403	Observation of macroscopic valley-polarized monolayer exciton-polaritons at room temperature. <i>Physical Review B</i> , 2017 , 96,	3.3	25
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41	Discretely tunable single-mode lasers on GaSb using two-dimensional photonic crystal intracavity mirrors. <i>Nanotechnology</i> , 2008 , 19, 235202	3.4	2
40	Tailoring of morphology and emission wavelength of AlGaInAs quantum dots. <i>Nanotechnology</i> , 2008 , 19, 045601	3.4	19
39	Columnar quantum dashes for an active region in polarization independent semiconductor optical amplifiers at 1.55μm. <i>Applied Physics Letters</i> , 2008 , 93, 171910	3.4	19
38	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
37	Lithographic alignment to site-controlled quantum dots for device integration. <i>Applied Physics Letters</i> , 2008 , 92, 183101	3.4	89
36	Continuous wave single mode operation of GaInAsSb/GaSb quantum well lasers emitting beyond 3μm. <i>Applied Physics Letters</i> , 2008 , 92, 183508	3.4	46
35	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
34	Low threshold electrically pumped quantum dot-micropillar lasers. <i>Applied Physics Letters</i> , 2008 , 93, 061104	3.4	76
33	Electrically driven high-Q quantum dot-micropillar cavities. <i>Applied Physics Letters</i> , 2008 , 92, 091107	3.4	111

32	Wide wavelength tuning of GaAs _{1-x} Al _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
31	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
30	Lateral Spin Diffusion Probed by Two-Color Hanle-MOKE Technique. <i>Acta Physica Polonica A</i> , 2008 , 114, 1311-1316	0.6	1
29	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
28	High-Performance Short-Wavelength (\sim 760 nm) AlGaInAs Quantum-Dot Lasers. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1380-1382	2.2	11
27	Quantum Cascade Microlasers With Two-Dimensional Photonic Crystal Reflectors. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1937-1939	2.2	3
26	AlAs/GaAs micropillar cavities with quality factors exceeding 150.000. <i>Applied Physics Letters</i> , 2007 , 90, 251109	3-4	248
25	Dynamic properties of 1.5 [μ m] quantum dash lasers on (100) InP. <i>Electronics Letters</i> , 2007 , 43, 1093	1.1	8
24	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
23	Tapered quantum cascade lasers. <i>Applied Physics Letters</i> , 2007 , 91, 181122	3-4	29
22	Detection of charge states in nanowire quantum dots using a quantum point contact. <i>Applied Physics Letters</i> , 2007 , 90, 172112	3-4	21
21	Highly efficient and compact photonic wire splitters on GaAs. <i>Applied Physics Letters</i> , 2007 , 91, 221102	3-4	9
20	Low threshold, high gain AlGaInAs quantum dot lasers. <i>Applied Physics Letters</i> , 2007 , 90, 221113	3-4	19
19	1240nm high-power GaInNAs laser diodes. <i>Optics Express</i> , 2007 , 15, 15187-92	3-3	4
18	Experimental evidence on quantum well \rightarrow 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
17	Ultra-compact high transmittance photonic wire bends for monolithic integration on III/V-semiconductors. <i>Electronics Letters</i> , 2006 , 42, 1280	1.1	2
16	Mode switching and singlemode tuning in two-segment distributed feedback quantum cascade lasers. <i>Electronics Letters</i> , 2006 , 42, 220	1.1	4
15	Comparative Analysis of μ m GaAs/AlGaAs Quantum Cascade Lasers with Different Injector Doping. <i>Materials Science Forum</i> , 2006 , 518, 29-34	0.4	

14	Photonic crystal quantum cascade lasers with improved threshold characteristics operating at room temperature. <i>Applied Physics Letters</i> , 2006 , 89, 191113	3.4	4
13	Self-gating in an electron Y-branch switch at room temperature. <i>Applied Physics Letters</i> , 2006 , 89, 122109	3.4	5
12	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
11	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
10	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
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