

Martin Kamp

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443
papers

12,668
citations

54
h-index

95
g-index

575
ext. papers

14,751
ext. citations

4.7
avg, IF

6.07
L-index

#	Paper	IF	Citations
443	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
442	Quantum-dot spin-photon entanglement via frequency downconversion to telecom wavelength. <i>Nature</i> , 2012 , 491, 421-5	50.4	345
441	On-demand semiconductor single-photon source with near-unity indistinguishability. <i>Nature Nanotechnology</i> , 2013 , 8, 213-7	28.7	343
440	An electrically pumped polariton laser. <i>Nature</i> , 2013 , 497, 348-52	50.4	325
439	Atomically flat single-crystalline gold nanostructures for plasmonic nanocircuitry. <i>Nature Communications</i> , 2010 , 1, 150	17.4	314
438	Observation of non-Hermitian degeneracies in a chaotic exciton-polariton billiard. <i>Nature</i> , 2015 , 526, 554-8	50.4	281
437	Photon antibunching from a single quantum-dot-microcavity system in the strong coupling regime. <i>Physical Review Letters</i> , 2007 , 98, 117402	7.4	281
436	AlAs/GaAs micropillar cavities with quality factors exceeding 150.000. <i>Applied Physics Letters</i> , 2007 , 90, 251109	3.4	248
435	High-efficiency multiphoton boson sampling. <i>Nature Photonics</i> , 2017 , 11, 361-365	33.9	247
434	Ultrafast optical spin echo in a single quantum dot. <i>Nature Photonics</i> , 2010 , 4, 367-370	33.9	244
433	Experimental realization of highly efficient broadband coupling of single quantum dots to a photonic crystal waveguide. <i>Physical Review Letters</i> , 2008 , 101, 113903	7.4	239
432	Waveguide superconducting single-photon detectors for integrated quantum photonic circuits. <i>Applied Physics Letters</i> , 2011 , 99, 181110	3.4	193
431	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
430	Electrically driven optical antennas. <i>Nature Photonics</i> , 2015 , 9, 582-586	33.9	168
429	Interband cascade lasers. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 123001	3	159
428	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
427	Electrically driven quantum dot-micropillar single photon source with 34% overall efficiency. <i>Applied Physics Letters</i> , 2010 , 96, 011107	3.4	148

426	Mode imaging and selection in strongly coupled nanoantennas. <i>Nano Letters</i> , 2010 , 10, 2105-10	11.5	115
425	Two-dimensional photonic crystal coupled-defect laser diode. <i>Applied Physics Letters</i> , 2003 , 82, 4-6	3.4	115
424	Atomic-scale confinement of resonant optical fields. <i>Nano Letters</i> , 2012 , 12, 5504-9	11.5	114
423	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
422	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
421	Tunable photonic crystals fabricated in III-V semiconductor slab waveguides using infiltrated liquid crystals. <i>Applied Physics Letters</i> , 2003 , 82, 2767-2769	3.4	110
420	Near-Transform-Limited Single Photons from an Efficient Solid-State Quantum Emitter. <i>Physical Review Letters</i> , 2016 , 116, 213601	7.4	108
419	Exciton-polariton trapping and potential landscape engineering. <i>Reports on Progress in Physics</i> , 2017 , 80, 016503	14.4	108
418	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
417	Voltage fluctuation to current converter with Coulomb-coupled quantum dots. <i>Physical Review Letters</i> , 2015 , 114, 146805	7.4	93
416	Photonic crystal tapers for ultracompact mode conversion. <i>Optics Letters</i> , 2001 , 26, 1102-4	3	93
415	Enhanced light emission of InxGa1-xAs quantum dots in a two-dimensional photonic-crystal defect microcavity. <i>Physical Review B</i> , 2002 , 66,	3.3	92
414	Photonic crystal cavity based gas sensor. <i>Applied Physics Letters</i> , 2008 , 92, 261112	3.4	91
413	Lithographic alignment to site-controlled quantum dots for device integration. <i>Applied Physics Letters</i> , 2008 , 92, 183101	3.4	89
412	Time-Bin-Encoded Boson Sampling with a Single-Photon Device. <i>Physical Review Letters</i> , 2017 , 118, 190501	10.1	86
411	Lasing in high-Q quantum-dot micropillar cavities. <i>Applied Physics Letters</i> , 2006 , 89, 051107	3.4	82
410	Single photon emission from a site-controlled quantum dot-micropillar cavity system. <i>Applied Physics Letters</i> , 2009 , 94, 111111	3.4	78
409	Giant photon bunching, superradiant pulse emission and excitation trapping in quantum-dot nanolasers. <i>Nature Communications</i> , 2016 , 7, 11540	17.4	78

408	Photonic crystal waveguide directional couplers as wavelength selective optical filters. <i>Optics Communications</i> , 2004 , 230, 387-392	2	73
407	Optimization of photonic crystal cavity for chemical sensing. <i>Optics Express</i> , 2008 , 16, 11709-17	3.3	71
406	Toward Scalable Boson Sampling with Photon Loss. <i>Physical Review Letters</i> , 2018 , 120, 230502	7.4	69
405	Gallium arsenide (GaAs) quantum photonic waveguide circuits. <i>Optics Communications</i> , 2014 , 327, 49-55	2	69
404	Quantum-dot-induced phase shift in a pillar microcavity. <i>Physical Review A</i> , 2011 , 84,	2.6	69
403	Semiconductor quantum dot microcavity pillars with high-quality factors and enlarged dot dimensions. <i>Applied Physics Letters</i> , 2005 , 86, 111105	3.4	66
402	Zero-dimensional polariton laser in a subwavelength grating-based vertical microcavity. <i>Light: Science and Applications</i> , 2014 , 3, e135-e135	16.7	65
401	Single site-controlled In(Ga)As/GaAs quantum dots: growth, properties and device integration. <i>Nanotechnology</i> , 2009 , 20, 434012	3.4	65
400	Single quantum dot controlled lasing effects in high-Q micropillar cavities. <i>Optics Express</i> , 2008 , 16, 4848-4857	3.57	65
399	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
398	Photonic crystal optical filter based on contra-directional waveguide coupling. <i>Applied Physics Letters</i> , 2003 , 83, 5121-5123	3.4	63
397	Low-threshold high-quantum-efficiency laterally gain-coupled InGaAs/AlGaAs distributed feedback lasers. <i>Applied Physics Letters</i> , 1999 , 74, 483-485	3.4	63
396	Dimensionality-Driven Metal-Insulator Transition in Spin-Orbit-Coupled SrIrO ₃ . <i>Physical Review Letters</i> , 2017 , 119, 256404	7.4	60
395	Electrically connected resonant optical antennas. <i>Nano Letters</i> , 2012 , 12, 3915-9	11.5	60
394	Creation of orbital angular momentum states with chiral polaritonic lenses. <i>Physical Review Letters</i> , 2014 , 113, 200404	7.4	59
393	Observing chaos for quantum-dot microlasers with external feedback. <i>Nature Communications</i> , 2011 , 2, 366	17.4	57
392	Emission from quantum-dot high-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
391	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

390	Bloch-wave engineering of quantum dot micropillars for cavity quantum electrodynamics experiments. <i>Physical Review Letters</i> , 2012 , 108, 057402	7.4	55
389	A polariton condensate in a photonic crystal potential landscape. <i>New Journal of Physics</i> , 2015 , 17, 023001	19	54
388	GaN NAs for GaAs based lasers for the 1.3 to 1.5 μ m range. <i>Journal of Crystal Growth</i> , 2003 , 251, 353-359	1.6	53
387	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
386	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
385	An electrically driven cavity-enhanced source of indistinguishable photons with 61% overall efficiency. <i>APL Photonics</i> , 2016 , 1, 011301	5.2	50
384	Mid-infrared semiconductor heterostructure lasers for gas sensing applications. <i>Semiconductor Science and Technology</i> , 2011 , 26, 014032	1.8	49
383	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
382	Optical study of two-dimensional InP-based photonic crystals by internal light source technique. <i>IEEE Journal of Quantum Electronics</i> , 2002 , 38, 786-799	2	48
381	Two-photon interference from remote quantum dots with inhomogeneously broadened linewidths. <i>Physical Review B</i> , 2014 , 89,	3.3	47
380	Waveguide photon-number-resolving detectors for quantum photonic integrated circuits. <i>Applied Physics Letters</i> , 2013 , 103, 111116	3.4	47
379	Overcoming power broadening of the quantum dot emission in a pure wurtzite nanowire. <i>Physical Review B</i> , 2016 , 93,	3.3	46
378	Enhanced spontaneous emission from quantum dots in short photonic crystal waveguides. <i>Applied Physics Letters</i> , 2012 , 100, 061122	3.4	46
377	On-chip quantum optics with quantum dot microcavities. <i>Advanced Materials</i> , 2013 , 25, 707-10	24	46
376	Algebraic order and the Berezinskii-Kosterlitz-Thouless transition in an exciton-polariton gas. <i>Physical Review B</i> , 2014 , 90,	3.3	45
375	Unconventional growth mechanism for monolithic integration of III-V on silicon. <i>ACS Nano</i> , 2013 , 7, 100-106.7	16.7	44
374	Microcavity controlled coupling of excitonic qubits. <i>Nature Communications</i> , 2013 , 4, 1747	17.4	44
373	Pulsed nuclear pumping and spin diffusion in a single charged quantum dot. <i>Physical Review Letters</i> , 2010 , 105, 107401	7.4	44

372	Lateral coupling in material independent way to complex coupled DFB lasers. <i>Optical Materials</i> , 2001 , 17, 19-25	3-3	44
371	Microcavity enhanced single photon emission from an electrically driven site-controlled quantum dot. <i>Applied Physics Letters</i> , 2012 , 100, 091108	3-4	43
370	Semiconductor photonic crystals for optoelectronics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 802-808	3	43
369	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
368	Intensity fluctuations in bimodal micropillar lasers enhanced by quantum-dot gain competition. <i>Physical Review A</i> , 2013 , 87,	2.6	41
367	Collective state transitions of exciton-polaritons loaded into a periodic potential. <i>Physical Review B</i> , 2016 , 93,	3-3	39
366	Models and measurements for the transmission of submicron-width waveguide bends defined in two-dimensional photonic crystals. <i>IEEE Journal of Quantum Electronics</i> , 2002 , 38, 770-785	2	38
365	Circularly polarized light emission from chiral spatially-structured planar semiconductor microcavities. <i>Physical Review B</i> , 2014 , 89,	3-3	37
364	Directional whispering gallery mode emission from Limaon-shaped electrically pumped quantum dot micropillar lasers. <i>Applied Physics Letters</i> , 2012 , 101, 021116	3-4	37
363	Scalable fabrication of optical resonators with embedded site-controlled quantum dots. <i>Optics Letters</i> , 2008 , 33, 1759-61	3	37
362	Ultrahigh-quality photonic crystal cavity in GaAs. <i>Optics Letters</i> , 2006 , 31, 1229-31	3	37
361	Coherent photonic coupling of semiconductor quantum dots. <i>Optics Letters</i> , 2006 , 31, 1738-40	3	37
360	Bright single photon source based on self-aligned quantum dot-cavity systems. <i>Optics Express</i> , 2014 , 22, 8136-42	3-3	36
359	Capacitive-coupling-enhanced switching gain in an electron y-branch switch. <i>Physical Review Letters</i> , 2002 , 89, 226804	7-4	36
358	Dynamically controlled resonance fluorescence spectra from a doubly dressed single InGaAs quantum dot. <i>Physical Review Letters</i> , 2015 , 114, 097402	7-4	35
357	Quantum dot micropillar cavities with quality factors exceeding 250,000. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1-9	35
356	Logical Stochastic Resonance with a Coulomb-Coupled Quantum-Dot Rectifier. <i>Physical Review Applied</i> , 2015 , 4,	4-3	35
355	Surface-interface coupling in an oxide heterostructure: Impact of adsorbates on LaAlO3/SrTiO3. <i>Physical Review B</i> , 2015 , 92,	3-3	35

354	Room temperature, continuous wave lasing in microcylinder and microring quantum dot laser diodes. <i>Applied Physics Letters</i> , 2012 , 100, 031111	3-4	35
353	Universal and reconfigurable logic gates in a compact three-terminal resonant tunneling diode. <i>Applied Physics Letters</i> , 2010 , 96, 042112	3-4	35
352	DFB laser diodes in the wavelength range from 760 nm to 2.5 microm. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004 , 60, 3243-7	4-4	35
351	. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 480-482	2-2	34
350	Anomalies of a nonequilibrium spinor polariton condensate in a magnetic field. <i>Physical Review Letters</i> , 2014 , 112, 093902	7-4	34
349	Spatial coherence properties of one dimensional exciton-polariton condensates. <i>Physical Review Letters</i> , 2014 , 113, 203902	7-4	34
348	Electro optical tuning of Tamm-plasmon exciton-polaritons. <i>Applied Physics Letters</i> , 2014 , 105, 181107	3-4	34
347	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
346	1.3- μ m GaInNAs-AlGaAs distributed feedback lasers. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 239-241	2-2	34
345	All-optical flow control of a polariton condensate using nonresonant excitation. <i>Physical Review B</i> , 2015 , 91,	3-3	33
344	Single photon emission at 1.55 μ m from charged and neutral exciton confined in a single quantum dash. <i>Applied Physics Letters</i> , 2014 , 105, 021909	3-4	33
343	Ultra-high-Q photonic crystal cavity created by modulating air hole radius of a waveguide. <i>Optics Express</i> , 2008 , 16, 4605-14	3-3	32
342	Near-field imaging and frequency tuning of a high-Q photonic crystal membrane microcavity. <i>Optics Express</i> , 2007 , 15, 17214-20	3-3	32
341	Enhanced transmission through photonic-crystal-based bent waveguides by bend engineering. <i>Applied Physics Letters</i> , 2001 , 79, 3579-3581	3-4	32
340	Mode-switching induced super-thermal bunching in quantum-dot microlasers. <i>New Journal of Physics</i> , 2016 , 18, 063011	2-9	32
339	Whispering gallery mode lasing in high quality GaAs/AlAs pillar microcavities. <i>Applied Physics Letters</i> , 2010 , 96, 071103	3-4	31
338	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
337	Light sensitive memristor with bi-directional and wavelength-dependent conductance control. <i>Applied Physics Letters</i> , 2016 , 109, 023501	3-4	31

336	Electro-Photo-Sensitive Memristor for Neuromorphic and Arithmetic Computing. <i>Physical Review Applied</i> , 2016 , 5,	4.3	30
335	Coherent Polariton Laser. <i>Physical Review X</i> , 2016 , 6,	9.1	29
334	Effect of Coulomb interaction on exciton-polariton condensates in GaAs pillar microcavities. <i>Physical Review B</i> , 2011 , 84,	3.3	29
333	1.3 μm continuous-wave GaInNAs/GaAs distributed feedback laser diodes. <i>Applied Physics Letters</i> , 2002 , 81, 4330-4331	3.4	29
332	Fabrication of quantum point contacts by imprint lithography and transport studies. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 3561		29
331	Cavity-enhanced simultaneous dressing of quantum dot exciton and biexciton states. <i>Physical Review B</i> , 2016 , 93,	3.3	28
330	Quantum Interference between Light Sources Separated by 150 Million Kilometers. <i>Physical Review Letters</i> , 2019 , 123, 080401	7.4	28
329	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
328	Nanofabrication of two-dimensional photonic crystal mirrors for 1.5 μm short cavity lasers. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 2775		28
327	Talbot Effect for Exciton Polaritons. <i>Physical Review Letters</i> , 2016 , 117, 097403	7.4	27
326	Lasing from active optomechanical resonators. <i>Nature Communications</i> , 2014 , 5, 4038	17.4	27
325	Widely tunable, efficient on-chip single photon sources at telecommunication wavelengths. <i>Optics Express</i> , 2012 , 20, 21758-65	3.3	27
324	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
323	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
322	Dynamics of excitons in individual InAs quantum dots revealed in four-wave mixing spectroscopy. <i>Optica</i> , 2016 , 3, 377	8.6	26
321	Charged quantum dot micropillar system for deterministic light-matter interactions. <i>Physical Review B</i> , 2016 , 93,	3.3	26
320	Multi-wave coherent control of a solid-state single emitter. <i>Nature Photonics</i> , 2016 , 10, 155-158	33.9	26
319	Complete tomography of a high-fidelity solid-state entangled spin-photon qubit pair. <i>Nature Communications</i> , 2013 , 4, 2228	17.4	26

318	Strain-driven growth of GaAs(111) quantum dots with low fine structure splitting. <i>Applied Physics Letters</i> , 2014 , 105, 251901	3-4	26
317	Spin multistability of cavity polaritons in a magnetic field. <i>Physical Review B</i> , 2013 , 87,	3-3	26
316	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
315	Controlling circular polarization of light emitted by quantum dots using chiral photonic crystal slabs. <i>Physical Review B</i> , 2015 , 92,	3-3	25
314	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
313	Cavity-enhanced resonant tunneling photodetector at telecommunication wavelengths. <i>Applied Physics Letters</i> , 2014 , 104, 101109	3-4	25
312	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
311	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
310	Fe ₃ O ₄ /ZnO: A high-quality magnetic oxide-semiconductor heterostructure by reactive deposition. <i>Applied Physics Letters</i> , 2011 , 98, 012512	3-4	24
309	High Q whispering gallery modes in GaAs/AlAs pillar microcavities. <i>Optics Express</i> , 2007 , 15, 17291-304	3-3	24
308	Disorder-induced losses in planar photonic crystals. <i>Optics Letters</i> , 2006 , 31, 1426-8	3	24
307	InAs-based interband-cascade-lasers emitting around 7 μm with threshold current densities below 1 kA/cm ² at room temperature. <i>Applied Physics Letters</i> , 2015 , 106, 041108	3-4	23
306	Optical bistability in electrically driven polariton condensates. <i>Physical Review B</i> , 2015 , 91,	3-3	23
305	Single mode interband cascade lasers based on lateral metal gratings. <i>Applied Physics Letters</i> , 2014 , 105, 071111	3-4	23
304	On-Chip Single-Plasmon Nanocircuit Driven by a Self-Assembled Quantum Dot. <i>Nano Letters</i> , 2017 , 17, 4291-4296	11-5	22
303	Electrically Tunable Single-Photon Source Triggered by a Monolithically Integrated Quantum Dot Microlaser. <i>ACS Photonics</i> , 2017 , 4, 790-794	6-3	22
302	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
301	Coherence signatures and density-dependent interaction in a dynamical exciton-polariton condensate. <i>Physical Review B</i> , 2012 , 86,	3-3	22

300	Mode selection in electrically driven quantum dot microring cavities. <i>Optics Express</i> , 2013 , 21, 15951-8	3.3	22
299	Coupling polariton quantum boxes in sub-wavelength grating microcavities. <i>Applied Physics Letters</i> , 2015 , 106, 051104	3.4	21
298	Controlled Growth of High-Aspect-Ratio Single-Crystalline Gold Platelets. <i>Crystal Growth and Design</i> , 2018 , 18, 1297-1302	3.5	21
297	Sensitivity of resonant tunneling diode photodetectors. <i>Nanotechnology</i> , 2016 , 27, 355202	3.4	21
296	Coherence expansion and polariton condensate formation in a semiconductor microcavity. <i>Physical Review Letters</i> , 2013 , 110, 137402	7.4	21
295	Interband cascade lasers with AlGaAsSb bulk cladding layers. <i>Optical Materials Express</i> , 2013 , 3, 1624	2.6	21
294	Deeply etched two-dimensional photonic crystals fabricated on GaAs/AlGaAs slab waveguides by using chemically assisted ion beam etching. <i>Microelectronic Engineering</i> , 2002 , 61-62, 875-880	2.5	21
293	Single-mode operation of coupled-cavity lasers based on two-dimensional photonic crystals. <i>Applied Physics Letters</i> , 2001 , 79, 4091-4093	3.4	21
292	Exploring the Photon-Number Distribution of Bimodal Microlasers with a Transition Edge Sensor. <i>Physical Review Applied</i> , 2018 , 9,	4.3	21
291	Single-mode interband cascade lasers emitting below 2.8 μm . <i>Applied Physics Letters</i> , 2015 , 106, 161103	3.4	20
290	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
289	Lasing in Bose-Fermi mixtures. <i>Scientific Reports</i> , 2016 , 6, 20091	4.9	20
288	Nonlinear route to intrinsic Josephson oscillations in spinor cavity-polariton condensates. <i>Physical Review B</i> , 2014 , 90,	3.3	20
287	Single mode quantum cascade lasers with shallow-etched distributed Bragg reflector. <i>Optics Express</i> , 2012 , 20, 3890-7	3.3	20
286	All-optical control of quantized momenta on a polariton staircase. <i>Physical Review B</i> , 2012 , 85,	3.3	20
285	Wide range tunable laterally coupled distributed-feedback lasers based on InGaAs-GaAs quantum dots. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 1246-1248	2.2	20
284	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
283	Efficient single photon source based on fibre-coupled tunable microcavity. <i>Scientific Reports</i> , 2015 , 5, 14309	4.9	19

282	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
281	Decay dynamics of quantum dots influenced by the local density of optical states of two-dimensional photonic crystal membranes. <i>Applied Physics Letters</i> , 2008 , 93, 094102	3.4	19
280	Photon echo transients from an inhomogeneous ensemble of semiconductor quantum dots. <i>Physical Review B</i> , 2016 , 93,	3.3	18
279	From micro- to nanomagnetic dots: evolution of the eigenmode spectrum on reducing the lateral size. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 265001	3	18
278	Nanothermometer Based on Resonant Tunneling Diodes: From Cryogenic to Room Temperatures. <i>ACS Nano</i> , 2015 , 9, 6271-7	16.7	18
277	Integrated autocorrelator based on superconducting nanowires. <i>Optics Express</i> , 2013 , 21, 11162-70	3.3	18
276	High beta lasing in micropillar cavities with adiabatic layer design. <i>Applied Physics Letters</i> , 2013 , 102, 052114	3.4	18
275	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
274	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
273	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
272	Tunable distributed feedback laser with photonic crystal mirrors. <i>Applied Physics Letters</i> , 2003 , 82, 2942-2944	3.4	18
271	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
270	Photocurrent-voltage relation of resonant tunneling diode photodetectors. <i>Applied Physics Letters</i> , 2015 , 107, 081104	3.4	17
269	Ghost Branch Photoluminescence From a Polariton Fluid Under Nonresonant Excitation. <i>Physical Review Letters</i> , 2015 , 115, 186401	7.4	17
268	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
267	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
266	Polarization-dependent optical properties of planar photonic crystals infiltrated with liquid crystals. <i>Applied Physics Letters</i> , 2005 , 87, 121105	3.4	17
265	7.8 GHz small-signal modulation bandwidth of 1.3 [micro sign]m DQW GaInAsN/GaAs laser diodes. <i>Electronics Letters</i> , 2000 , 36, 1025	1.1	17

264	Photon echoes from (In,Ga)As quantum dots embedded in a Tamm-plasmon microcavity. <i>Physical Review B</i> , 2017 , 95,	3.3	16
263	Simple Electrical Modulation Scheme for Laser Feedback Imaging. <i>IEEE Sensors Journal</i> , 2016 , 16, 1937-1942	4.2	16
262	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
261	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
260	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
259	GaNNAs-based distributed feedback laser diodes emitting at 1.5 [micro sign]m. <i>Electronics Letters</i> , 2004 , 40, 427	1.1	16
258	Two-channel tunable laser diode based on photonic crystals. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 353-555	2.2	16
257	Tunable photonic crystal coupled-cavity laser. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 1306-1314	2	16
256	InGaAs/AlGaAs quantum dot DFB lasers operating up to 213°C. <i>Electronics Letters</i> , 1999 , 35, 2036	1.1	16
255	Picosecond Control of Quantum Dot Laser Emission by Coherent Phonons. <i>Physical Review Letters</i> , 2017 , 118, 133901	7.4	15
254	Domain matching epitaxy of BaBiO3 on SrTiO3 with structurally modified interface. <i>Applied Physics Letters</i> , 2018 , 112, 141601	3.4	15
253	Injection Locking of Quantum-Dot Microlasers Operating in the Few-Photon Regime. <i>Physical Review Applied</i> , 2016 , 6,	4.3	15
252	Electroluminescence from spatially confined exciton polaritons in a textured microcavity. <i>Applied Physics Letters</i> , 2013 , 102, 041101	3.4	15
251	Strong light-matter coupling in the presence of lasing. <i>Physical Review A</i> , 2017 , 96,	2.6	15
250	Photon-Statistics Excitation Spectroscopy of a Quantum-Dot Micropillar Laser. <i>Physical Review Letters</i> , 2015 , 115, 027401	7.4	15
249	Room-temperature operation of InAs-based interband-cascade-lasers beyond 6 μm. <i>Electronics Letters</i> , 2013 , 49, 286-287	1.1	15
248	Wide-range-tunable laterally coupled distributed feedback lasers based on InGaAsP/InP. <i>Applied Physics Letters</i> , 2001 , 79, 2684-2686	3.4	15
247	Transmission spectroscopy of photonic crystal based waveguides with resonant cavities. <i>Journal of Applied Physics</i> , 2002 , 91, 4791-4794	2.5	15

246	Nanolithography using a 100 kV electron beam lithography system with a Schottky emitter. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999 , 17, 86		15
245	Controlled Ordering of Topological Charges in an Exciton-Polariton Chain. <i>Physical Review Letters</i> , 2018 , 121, 225302	7.4	15
244	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
243	Broadband indistinguishability from bright parametric downconversion in a semiconductor waveguide. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 125201	1.7	14
242	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
241	Demonstration of the self-mixing effect in interband cascade lasers. <i>Applied Physics Letters</i> , 2013 , 103, 231107	3.4	14
240	Magnetic field control of polarized polariton condensates in rectangular microcavity pillars. <i>Physical Review B</i> , 2012 , 85,	3.3	14
239	Spectral and spatial single mode emission from a photonic crystal distributed feedback laser. <i>Applied Physics Letters</i> , 2007 , 90, 121135	3.4	14
238	Nanofabrication of high quality photonic crystals for integrated optics circuits. <i>Nanotechnology</i> , 2002 , 13, 341-345	3.4	14
237	Quantum point contacts fabricated by nanoimprint lithography. <i>Applied Physics Letters</i> , 2000 , 77, 2237-2239	3.4	14
236	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
235	Temperature dependence of pulsed polariton lasing in a GaAs microcavity. <i>New Journal of Physics</i> , 2012 , 14, 083014	2.9	13
234	Self-switching of branched multiterminal junctions: a ballistic half-adder. <i>Applied Physics Letters</i> , 2003 , 83, 2462-2464	3.4	13
233	Nanofabrication techniques for lasers with two-dimensional photonic crystal mirrors. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 3501		13
232	Unconventional collective normal-mode coupling in quantum-dot-based bimodal microlasers. <i>Physical Review A</i> , 2015 , 91,	2.6	12
231	Experimental realization of a polariton beam amplifier. <i>Physical Review B</i> , 2016 , 93,	3.3	12
230	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
229	On-chip optoelectronic feedback in a micropillar laser-detector assembly. <i>Optica</i> , 2017 , 4, 303	8.6	12

228	Memristive operation mode of a site-controlled quantum dot floating gate transistor. <i>Applied Physics Letters</i> , 2015 , 106, 203501	3.4	12
227	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
226	Electrically Driven Quantum Dot Micropillar Light Sources. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011 , 17, 1670-1680	3.8	12
225	GaAs field effect transistors fabricated by imprint lithography. <i>Microelectronic Engineering</i> , 2002 , 60, 451-455	2.5	12
224	InP-based short cavity lasers with 2D photonic crystal mirror. <i>Electronics Letters</i> , 2001 , 37, 428	1.1	12
223	High Frequency Operation of Nanoelectronic Y-Branch at Room Temperature. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, L867-L868	1.4	12
222	Correlations between axial and lateral emission of coupled quantum dot micropillar cavities. <i>Physical Review B</i> , 2015 , 91,	3.3	11
221	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
220	Impact of nanomechanical resonances on lasing from electrically pumped quantum dot micropillars. <i>Applied Physics Letters</i> , 2015 , 106, 041103	3.4	11
219	(In,Ga)As/GaP electrical injection quantum dot laser. <i>Applied Physics Letters</i> , 2014 , 104, 011113	3.4	11
218	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
217	Frequency-Dependent Linewidth Enhancement Factor of Quantum-Dot Lasers. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 1736-1738	2.2	11
216	Fabrication of quantum point contacts and quantum dots by imprint lithography. <i>Microelectronic Engineering</i> , 2001 , 57-58, 397-403	2.5	11
215	Efficient light transmission through InP-based photonic crystal waveguides. <i>Electronics Letters</i> , 2002 , 38, 178	1.1	11
214	Rabi oscillations of a quantum dot exciton coupled to acoustic phonons: coherence and population readout. <i>Optica</i> , 2018 , 5, 1442	8.6	11
213	Molecular beam epitaxy of antiferromagnetic (MnBi ₂ Te ₄)(Bi ₂ Te ₃) thin films on BaF ₂ (111). <i>Journal of Applied Physics</i> , 2020 , 128, 135303	2.5	11
212	Transition from Jaynes-Cummings to Autler-Townes ladder in a quantum dot microcavity system. <i>Physical Review B</i> , 2017 , 95,	3.3	10
211	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

210	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
209	Invited Article: Time-bin entangled photon pairs from Bragg-reflection waveguides. <i>APL Photonics</i> , 2018 , 3, 080804	5.2	10
208	Nonlinear spectroscopy of exciton-polaritons in a GaAs-based microcavity. <i>Physical Review B</i> , 2014 , 90,	3.3	10
207	Mode-resolved Fabry-Perot experiment in low-loss Bragg-reflection waveguides. <i>Optics Express</i> , 2015 , 23, 33608-21	3.3	10
206	GaInNAs-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
205	Increasing the optical transition oscillator strength in GaSb-based type II quantum wells. <i>Applied Physics Letters</i> , 2012 , 100, 231908	3.4	10
204	Bent laser cavity based on 2D photonic crystal waveguide. <i>Electronics Letters</i> , 2000 , 36, 324	1.1	10
203	Temporally versatile polarization entanglement from Bragg reflection waveguides. <i>Optics Letters</i> , 2017 , 42, 2102-2105	3	10
202	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
201	Circularly polarized lasing in chiral modulated semiconductor microcavity with GaAs quantum wells. <i>Applied Physics Letters</i> , 2016 , 109, 171106	3.4	10
200	Room temperature polariton light emitting diode with integrated tunnel junction. <i>Optics Express</i> , 2013 , 21, 31098-104	3.3	9
199	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
198	Elimination of cross-talk in waveguide intersections of triangular lattice photonic crystals. <i>Optics Express</i> , 2008 , 16, 11399-404	3.3	9
197	Group delay measurements on photonic crystal resonators. <i>Applied Physics Letters</i> , 2007 , 90, 151117	3.4	9
196	Two-dimensional photonic crystal laser mirrors. <i>Semiconductor Science and Technology</i> , 2001 , 16, 227-232	3.8	9
195	Ultrashort InGaAsP/InP lasers with deeply etched Bragg mirrors. <i>Applied Physics Letters</i> , 2001 , 78, 4074-4075	3.4	9
194	Monolithic single mode interband cascade lasers with wide wavelength tunability. <i>Applied Physics Letters</i> , 2016 , 109, 201109	3.4	9
193	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

192	Room temperature operation of GaSb-based resonant tunneling diodes by prewell injection. <i>Applied Physics Letters</i> , 2017 , 110, 033507	3.4	8
191	Electronic tuneability of a structurally rigid surface intermetallic and Kondo lattice: CePt ₅ /Pt(111). <i>Physical Review B</i> , 2015 , 92,	3.3	8
190	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
189	InAs-based distributed feedback interband cascade lasers. <i>Applied Physics Letters</i> , 2015 , 107, 181105	3.4	8
188	Temperature dependency of the emission properties from positioned In(Ga)As/GaAs quantum dots. <i>AIP Advances</i> , 2014 , 4, 097128	1.5	8
187	On the oscillator strength in dilute nitride quantum wells on GaAs. <i>Journal of Applied Physics</i> , 2012 , 111, 123503	2.5	8
186	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
185	Atomic scale interface engineering for strain compensated epitaxially grown InAs/AlSb superlattices. <i>Nanotechnology</i> , 2010 , 21, 455603	3.4	8
184	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
183	Fine-tuning of GaAs photonic crystal cavities by digital etching. <i>Microelectronic Engineering</i> , 2007 , 84, 1405-1407	2.5	8
182	Tunable GaInNAs lasers with photonic crystal mirrors. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 2247-2249		8
181	Photonic crystal waveguides with propagation losses in the 1dB/m range. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 3356		8
180	Coupling of point-defect microcavities in two-dimensional photonic-crystal slabs. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 373	1.7	8
179	Uncovering dispersion properties in semiconductor waveguides to study photon-pair generation. <i>Nanotechnology</i> , 2016 , 27, 434003	3.4	8
178	Graded band gap GaInNAs solar cells. <i>Applied Physics Letters</i> , 2015 , 106, 233902	3.4	7
177	Atomic-Scale Interface Structure in Domain Matching Epitaxial BaBiO ₃ Thin Films Grown on SrTiO ₃ Substrates. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2000054	2.5	7
176	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
175	Photon-statistics excitation spectroscopy of a single two-level system. <i>Physical Review B</i> , 2016 , 93,	3.3	7

174	Live-cell fluorescence imaging with extreme background suppression by plasmonic nanocoatings. <i>Optics Express</i> , 2018 , 26, 21301-21313	3.3	7
173	Site-controlled InAs/GaAs quantum dots emitting at telecommunication wavelength. <i>Semiconductor Science and Technology</i> , 2014 , 29, 052001	1.8	7
172	Prototype of a bistable polariton field-effect transistor switch. <i>Scientific Reports</i> , 2017 , 7, 5114	4.9	7
171	Exciton-polariton flows in cross-dimensional junctions. <i>Physical Review B</i> , 2017 , 95,	3.3	7
170	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
169	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
168	Charging dynamics of a floating gate transistor with site-controlled quantum dots. <i>Applied Physics Letters</i> , 2014 , 105, 053502	3.4	7
167	Spatial dynamics of stepwise homogeneously pumped polariton condensates. <i>Physical Review B</i> , 2012 , 86,	3.3	7
166	Anisotropic strain-tuning of quantum dots inside a photonic crystal cavity. <i>Semiconductor Science and Technology</i> , 2013 , 28, 122002	1.8	7
165	AlGaInAs quantum dot solar cells: tailoring quantum dots for intermediate band formation. <i>Semiconductor Science and Technology</i> , 2012 , 27, 032002	1.8	7
164	Acoustic phonon sideband dynamics during polaron formation in a single quantum dot. <i>Optics Letters</i> , 2020 , 45, 919-922	3	7
163	Mid infrared DFB interband cascade lasers 2017 ,		7
162	Tailoring the photoluminescence polarization anisotropy of a single InAs quantum dash by a post-growth modification of its dielectric environment. <i>Journal of Applied Physics</i> , 2016 , 120, 074303	2.5	7
161	On-chip light detection using monolithically integrated quantum dot micropillars. <i>Applied Physics Letters</i> , 2016 , 108, 081110	3.4	7
160	Efficient Quantum Photonic Phase Shift in a Low Q-Factor Regime. <i>ACS Photonics</i> , 2019 , 6, 429-435	6.3	7
159	Associative learning with Y-shaped floating gate transistors operated in memristive modes. <i>Applied Physics Letters</i> , 2017 , 110, 053503	3.4	6
158	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
157	Impact of lateral carrier confinement on electro-optical tuning properties of polariton condensates. <i>Applied Physics Letters</i> , 2015 , 107, 041108	3.4	6

156	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
155	Determination of operating parameters for a GaAs-based polariton laser. <i>Applied Physics Letters</i> , 2013 , 102, 081115	3.4	6
154	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
153	Temperature tuning from direct to inverted bistable electroluminescence in resonant tunneling diodes. <i>Journal of Applied Physics</i> , 2017 , 122, 154502	2.5	6
152	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
151	Molecular beam epitaxial growth of Bi ₂ Se ₃ nanowires and nanoflakes. <i>Applied Physics Letters</i> , 2014 , 105, 133109	3.4	6
150	Site-controlled growth of InP/GaN quantum dots on GaAs substrates. <i>Nanotechnology</i> , 2012 , 23, 375304	3.4	6
149	DFB interband cascade lasers for tunable laser absorption spectroscopy from 3 to 6 μm 2013 ,		6
148	Highly anisotropic decay rates of single quantum dots in photonic crystal membranes. <i>Optics Letters</i> , 2010 , 35, 2768-70	3	6
147	Monolithic tunable GaSb-based lasers at 3.3 [μm]. <i>Electronics Letters</i> , 2011 , 47, 1092	1.1	6
146	On the mechanisms of energy transfer between quantum well and quantum dashes. <i>Journal of Applied Physics</i> , 2012 , 112, 033520	2.5	6
145	Investigation of strong coupling between single quantum dot excitons and single photons in pillar microcavities. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 32, 471-475	3	6
144	1.4 [μm] continuous-wave GaInNAs distributed feedback laser diodes. <i>Electronics Letters</i> , 2003 , 39, 1815	1.1	6
143	Semiconductor lasers with 2-D-photonic crystal mirrors based on a wet-oxidized Al ₂ O ₃ -mask. <i>IEEE Photonics Technology Letters</i> , 2001 , 13, 406-408	2.2	6
142	Nanoscale Tipping Bucket Effect in a Quantum Dot Transistor-Based Counter. <i>Nano Letters</i> , 2017 , 17, 2273-2279	11.5	5
141	Optical Thouless conductance and level-spacing statistics in two-dimensional Anderson localizing systems. <i>Physical Review B</i> , 2019 , 100,	3.3	5
140	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
139	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

138	Incorporation of Europium in Bi ₂ Te ₃ Topological Insulator Epitaxial Films. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16048-16057	3.8	5
137	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
136	Photoluminescence quenching mechanisms in type II InAs/GaInSb QWs on InAs substrates. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	5
135	Visualising Berry phase and diabolical points in a quantum exciton-polariton billiard. <i>Scientific Reports</i> , 2016 , 6, 37653	4.9	5
134	Magnetic-field interaction of spatially confined quantum-well exciton-polaritons. <i>Journal of Physics: Conference Series</i> , 2013 , 456, 012033	0.3	5
133	Dynamics of the optical spin Hall effect. <i>Physical Review B</i> , 2017 , 96,	3.3	5
132	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
131	Transient optical parametric oscillations in resonantly pumped multistable cavity polariton condensates. <i>Physical Review B</i> , 2015 , 92,	3.3	5
130	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
129	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
128	Cascaded emission of linearly polarized single photons from positioned InP/GaInP quantum dots. <i>Applied Physics Letters</i> , 2013 , 103, 191113	3.4	5
127	Surface structure, morphology, and growth mechanism of Fe ₃ O ₄ /ZnO thin films. <i>Journal of Applied Physics</i> , 2011 , 110, 073519	2.5	5
126	1100 nm InGaAs/(Al)GaAs quantum dot lasers for high-power applications. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 145104	3	5
125	Integrated wavelength monitoring in a photonic-crystal tunable laser diode. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2008 , 6, 205-212	2.6	5
124	Strong and weak coupling of single quantum dot excitons in pillar microcavities. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 2224-2228	1.3	5
123	Continuous-wave operation of GaInNAsSb distributed feedback lasers at 1.5 [micro sign]m. <i>Electronics Letters</i> , 2004 , 40, 1487	1.1	5
122	Large dispersion in photonic crystal waveguide resonator. <i>Electronics Letters</i> , 2005 , 41, 414	1.1	5
121	Photon confinement effects [From physics to applications. <i>Microelectronic Engineering</i> , 2000 , 53, 21-28	2.5	5

120	Mimicking of pulse shape-dependent learning rules with a quantum dot memristor. <i>Journal of Applied Physics</i> , 2016 , 120, 134503	2.5	5
119	Sharpening emitter localization in front of a tuned mirror. <i>Light: Science and Applications</i> , 2018 , 7, 99	16.7	5
118	Optimizing the active region of interband cascade lasers for passive mode-locking. <i>AIP Advances</i> , 2017 , 7, 015015	1.5	4
117	Two-kind boson mixture honeycomb Hamiltonian of Bloch exciton-polaritons. <i>Physical Review B</i> , 2019 , 99,	3.3	4
116	On the modified active region design of interband cascade lasers. <i>Journal of Applied Physics</i> , 2015 , 117, 084312	2.5	4
115	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
114	Picosecond pulses from a monolithic GaSb-based passive mode-locked laser. <i>Applied Physics Letters</i> , 2020 , 116, 022102	3.4	4
113	Innovative mid-infrared detector concepts 2016 ,		4
112	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
111	Single-mode interband cascade laser sources for mid-infrared spectroscopic applications 2016 ,		4
110	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
109	Evanescantly Coupled DBR Laser Arrays in the 760–770 nm Wavelength Range. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1319-1322	2.2	4
108	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
107	Optimization and comparison of depth profiling in GaAs and GaSb with TOF-SIMS. <i>Surface and Interface Analysis</i> , 2011 , 43, 673-675	1.5	4
106	High-power pulsed 976-nm DFB laser diodes 2010 ,		4
105	Mixed-valence interactions in triarylamine-gold-nanoparticle conjugates. <i>Chemical Communications</i> , 2009 , 6213-5	5.8	4
104	High-Power Frequency Stabilized GaSb DBR Tapered Laser. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 2162-2164	2.2	4
103	Photonic crystal quantum cascade lasers with improved threshold characteristics operating at room temperature. <i>Applied Physics Letters</i> , 2006 , 89, 191113	3.4	4

102	Wavelength switching by mode interference between longitudinally coupled photonic crystal channel waveguides. <i>Electronics Letters</i> , 2004 , 40, 29	1.1	4
101	Magneto-tunnelling spectroscopy of nitrogen clusters in Ga(AsN) alloys. <i>IEE Proceedings: Optoelectronics</i> , 2003 , 150, 49		4
100	Fabrication of semiconductor lasers with 2D-photonic crystal mirrors using a wet oxidized Al ₂ O ₃ -mask. <i>Microelectronic Engineering</i> , 2001 , 57-58, 1017-1021	2.5	4
99	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
98	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
97	Photocurrent readout and electro-optical tuning of resonantly excited exciton polaritons in a trap. <i>Physical Review B</i> , 2015 , 91,	3.3	3
96	Cavity-enhanced AlGaAs/GaAs resonant tunneling photodetectors for telecommunication wavelength light detection at 1.3 μ m 2015 ,		3
95	Photoresponse of resonant tunneling diode photodetectors as a function of bias voltage 2016 ,		3
94	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
93	Direct fiber-coupled single photon source based on a photonic crystal waveguide. <i>Applied Physics Letters</i> , 2015 , 107, 081113	3.4	3
92	Low dimensional GaAs/air vertical microcavity lasers. <i>Applied Physics Letters</i> , 2014 , 104, 081113	3.4	3
91	Interband cascade lasers for the mid-infrared spectral region 2014 ,		3
90	Distributed feedback lasers with photon-photon-resonance-enhanced modulation bandwidth 2012 ,		3
89	Single quantum dot photocurrent spectroscopy in the cavity quantum electrodynamics regime. <i>Physical Review B</i> , 2012 , 86,	3.3	3
88	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
87	Single quantum dot controlled gain modulation in high-Q micropillar lasers. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 277-282	1.3	3
86	Room temperature continuous wave interband cascade lasers for gas sensing 2012 ,		3
85	High-brightness quantum well and quantum dot tapered lasers 2008 ,		3

84	Mode anti-crossing and carrier transport effects in tunable photonic crystal coupled-cavity lasers. <i>Optics Communications</i> , 2004 , 239, 187-191	2	3
83	Single Electron Transistor Fabricated on Heavily Doped Silicon-on-Insulator Substrate. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 2013-2016	1.4	3
82	Buried heterostructure complex-coupled distributed feedback 1.55 μm lasers fabricated using dry etching processes and quaternary layer overgrowth. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999 , 17, 2622		3
81	Distributed Feedback Interband Cascade Lasers and their Spectroscopic Applications in Gas Sensing 2014 ,		3
80	Single Semiconductor Quantum Dots in Microcavities: Bright Sources of Indistinguishable Photons. <i>Nano-optics and Nanophotonics</i> , 2015 , 343-361	0	3
79	Microfiber-microcavity system for efficient single photon collection. <i>Optics Express</i> , 2016 , 24, 23471-23480	3.9	3
78	Understanding photoluminescence in semiconductor Bragg-reflection waveguides. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 035801	1.7	3
77	Controlling the gain contribution of background emitters in few-quantum-dot microlasers. <i>New Journal of Physics</i> , 2018 , 20, 023036	2.9	3
76	Widely-tunable interband cascade lasers for the mid-infrared 2015 ,		2
75	Electronic structure of epitaxial perovskite films in the two-dimensional limit: Role of the surface termination. <i>Applied Physics Letters</i> , 2020 , 116, 201601	3.4	2
74	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
73	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
72	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
71	Sub-kT Switching in Asymmetric Y-Transistors With Internal Feedback Coupling. <i>IEEE Journal of the Electron Devices Society</i> , 2015 , 3, 158-163	2.3	2
70	Exciton-polariton laser diodes 2014 ,		2
69	Exciton-polariton lasers in Magnetic Fields 2013 ,		2
68	Waveguide superconducting single-photon autocorrelators for quantum photonic applications 2013 ,		2
67	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

66	Development of high-speed directly modulated DFB and DBR lasers with surface gratings 2011 ,		2
65	In-plane manipulation of quantum dots in high quality laterally contacted micropillar cavities. <i>Applied Physics Letters</i> , 2011 , 98, 191111	3.4	2
64	Discretely tunable single-mode lasers on GaSb using two-dimensional photonic crystal intracavity mirrors. <i>Nanotechnology</i> , 2008 , 19, 235202	3.4	2
63	Tunable Photonic Crystal Laser with Integrated Wavelength Monitor 2006 ,		2
62	Codirectional couplers in GaAs-based planar photonic crystals. <i>Applied Physics Letters</i> , 2005 , 86, 081108	3.4	2
61	GaAs-based 1.3 μ m microlasers with photonic crystal mirrors. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 3344		2
60	Widely tunable complex-coupled distributed feedback laser with photonic Crystal mirrors and integrated optical amplifier. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 729-731	2.2	2
59	1.3- μ m continuously tunable distributed feedback laser with constant power output based on GaInNAs-GaAs. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 897-899	2.2	2
58	Coherent InGaAs/GaAs laser arrays with laterally coupled distributed feedback gratings. <i>Electronics Letters</i> , 2004 , 40, 118	1.1	2
57	Silicon quantum point contact with aluminum gate. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000 , 74, 193-196	3.1	2
56	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
55	Photon Echo from an Ensemble of (In,Ga)As Quantum Dots. <i>Semiconductors</i> , 2018 , 52, 531-534	0.7	1
54	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
53	Acousto-optical nanoscopy of buried photonic nanostructures. <i>Optica</i> , 2017 , 4, 588	8.6	1
52	An electrically pumped polariton laser 2015 ,		1
51	Distributed feedback interband cascade lasers for spectroscopy from 3-6 μ m 2014 ,		1
50	Quantum integrated photonics on GaAs 2012 ,		1
49	Characterization of GaAs/AlGaAs resonant tunneling diodes with a GaInNAs absorption layer as 1.3 μ m photo sensors 2012 ,		1

48	Microring Diode Laser for THz Generation. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 472-478	3.4	1
47	Cavity quantum electrodynamics studies with site-controlled InGaAs quantum dots integrated into high quality microcavities 2011 ,		1
46	Tunable Long Wavelength ($\sim 2.8 \mu\text{m}$) GaInAsSb/InGaSb Quantum-Well Binary Superimposed Grating Lasers. <i>IEEE Photonics Technology Letters</i> , 2010 ,	2.2	1
45	Wavelength stabilized quantum dot lasers for high power applications. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 872-875	1.3	1
44	High-speed directly-modulated lasers employing photon-photon resonance 2011 ,		1
43	Compact integrated photonic crystal demultiplexer for emitting and receiving InP photonic integrated circuits 2008 ,		1
42	Dispersive properties of photonic crystal waveguide resonators. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 3727-3738	1.6	1
41	Photonic Crystal Based Active Optoelectronic Devices 2006 , 329-346		1
40	Coherent photonic coupling of semiconductor quantum dots: erratum. <i>Optics Letters</i> , 2006 , 31, 3507	3	1
39	Nanostructured semiconductors for optoelectronic applications 2006 ,		1
38	Recent advances in nanophotonics—from physics to devices. <i>Current Applied Physics</i> , 2006 , 6, e166-e171	2.6	1
37	Low-loss photonic crystal and monolithic InP integration: bands, bends, lasers, and filters 2004 , 5360, 119		1
36	Integration of 2D photonic crystals with ridge waveguide lasers. <i>Optical and Quantum Electronics</i> , 2002 , 34, 91-99	2.4	1
35	Single mode lasers based on monolithic integration of ridge waveguides with 2D photonic crystal waveguides. <i>Optical and Quantum Electronics</i> , 2002 , 34, 1137-1144	2.4	1
34	Short cavity InP-lasers with 2D photonic crystal mirrors. <i>IEE Proceedings: Optoelectronics</i> , 2001 , 148, 183-187		1
33	Transmission spectra measurements on photonic crystal based bent waveguides 2001 ,		1
32	InGaAs quantum dots for high-performance lasers and single-dot spectroscopy 2000 , 3944, 802		1
31	High quality factor GaAs microcavity with buried bullseye defects. <i>Physical Review Materials</i> , 2018 , 2,	3.2	1

30	Mid-infrared detectors based on resonant tunneling diodes and interband cascade structures 2018 ,		1
29	Semiconductor Cavity Quantum Electrodynamics with Single Quantum Dots. <i>Acta Physica Polonica A</i> , 2009 , 116, 445-450	0.6	1
28	Molecular beam epitaxy of the half-Heusler antiferromagnet CuMnSb. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
27	Picosecond ultrasonics with miniaturized semiconductor lasers. <i>Ultrasonics</i> , 2020 , 106, 106150	3.5	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	Hard x-ray photoemission spectroscopy of LaVO ₃ /SrTiO ₃ : Band alignment and electronic reconstruction. <i>Physical Review B</i> , 2021 , 103,	3.3	1
23	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
22	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
21	Wavelength switching by mode interference of coupled cavities with photonic crystal reflectors. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 77, 733-737	1.9	0
20	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
19	Antiferromagnetic order in MnBi ₂ Te ₄ films grown on Si(111) by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2022 , 126677	1.6	0
18	Laterally coupled DFB interband cascade laser with tapered ridge. <i>Electronics Letters</i> , 2017 , 53, 743-744	1.1	
17	Quantum-dot-based integrated non-linear sources. <i>IET Optoelectronics</i> , 2015 , 9, 82-87	1.5	
16	A Biochemical Sensor Based on a Sensing Waveguide With Efficient Analyte Overlap and a Single-Mode DFB Laser 2018 , 2, 1-3		
15	A detailed study of self-assembled (Al,Ga)InP quantum dots grown by molecular beam epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 2601-2610	1.6	
14	Optimizing single-mode collection from pointlike sources of single photons with adaptive optics. <i>Optics Express</i> , 2017 , 25, 18629-18642	3.3	
13	Poster: Spin-Related Phenomena 2013 , 589-632		

12 Dispersive Properties of Photonic Crystal Waveguide Resonators **2008**, 183-198

11 Unidirectional laterally gain-coupled distributed feedback ring laser diodes. *Electronics Letters*, **2003**, 39, 1055 1.1

10 Optimization of the wallplug-efficiency of laser diodes by an electro-optical-thermal black-box model. *Optical and Quantum Electronics*, **2005**, 37, 63-75 2.4

9 GaAs-based four-channel photonic crystal quantum dot laser module operating at 1.3 [micro sign]m. *Electronics Letters*, **2005**, 41, 1121 1.1

8 Integrated four-channel GaAs-based quantum dot laser module with photonic crystals. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2005**, 23, 3193

7 Optical study of 2D photonic crystals in an InP/GaInAsP slab waveguide structure. *Materials Research Society Symposia Proceedings*, **2001**, 694, 1

6 Frequency comb investigation of monolithic mode-locked GaSb-based laser at 1.7 μm by heterodyne detection. *Electronics Letters*, **2020**, 56, 1206-1208 1.1

5 High-Q whispering gallery modes in pillar microcavities. *Annales De Physique*, **2007**, 32, 123-126

4 Correcting STEM distortions in atomically resolved elemental maps. *Microscopy and Microanalysis*, **2021**, 27, 596-598 0.5

3 Half adder capabilities of a coupled quantum dot device. *Nanotechnology*, **2016**, 27, 215201 3.4

2 Double-waveguide interband cascade laser with dual-wavelength emission. *Applied Physics Letters*, **2018**, 113, 251105 3.4

1 Statistical modeling of epitaxial thin films of an intrinsic antiferromagnetic topological insulator. *Thin Solid Films*, **2022**, 750, 139183 2.2