

Jesper Moerk

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314
papers

7,738
citations

43
h-index

72
g-index

479
ext. papers

9,385
ext. citations

3.7
avg, IF

6.07
L-index

#	Paper	IF	Citations
314	. <i>IEEE Journal of Quantum Electronics</i> , 1992 , 28, 93-108	2	422
313	Wave mixing in semiconductor laser amplifiers due to carrier heating and spectral-hole burning. <i>IEEE Journal of Quantum Electronics</i> , 1994 , 30, 1769-1781	2	188
312	Ultrafast gain recovery and modulation limitations in self-assembled quantum-dot devices. <i>IEEE Photonics Technology Letters</i> , 2001 , 13, 541-543	2.2	174
311	. <i>IEEE Journal of Quantum Electronics</i> , 1988 , 24, 123-133	2	143
310	Slow light in a semiconductor waveguide at gigahertz frequencies. <i>Optics Express</i> , 2005 , 13, 8136-45	3.3	142
309	Route to chaos and competition between relaxation oscillations for a semiconductor laser with optical feedback. <i>Physical Review Letters</i> , 1990 , 65, 1999-2002	7.4	141
308	Subpicosecond gain dynamics in InGaAsP optical amplifiers: Experiment and theory. <i>Applied Physics Letters</i> , 1992 , 61, 2281-2283	3.4	137
307	Saturation effects in nondegenerate four-wave mixing between short optical pulses in semiconductor laser amplifiers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1997 , 3, 1190-1207	3.8	132
306	. <i>IEEE Photonics Technology Letters</i> , 1991 , 3, 606-609	2.2	130
305	Random nanolasing in the Anderson localized regime. <i>Nature Nanotechnology</i> , 2014 , 9, 285-9	28.7	117
304	Saturation induced by picosecond pulses in semiconductor optical amplifiers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 761	1.7	111
303	Finite-element modeling of spontaneous emission of a quantum emitter at nanoscale proximity to plasmonic waveguides. <i>Physical Review B</i> , 2010 , 81,	3.3	104
302	. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 306-320	2	103
301	Dephasing in InAs/GaAs quantum dots. <i>Physical Review B</i> , 1999 , 60, 7784-7787	3.3	103
300	Saturation and noise properties of quantum-dot optical amplifiers. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 1527-1539	2	102
299	Demonstration of a self-pulsing photonic crystal Fano laser. <i>Nature Photonics</i> , 2017 , 11, 81-84	33.9	101
298	InP based lasers and optical amplifiers with wire-/dot-like active regions. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 2088-2102	3	101

297	Phonon scattering inhibits simultaneous near-unity efficiency and indistinguishability in semiconductor single-photon sources. <i>Nature Photonics</i> , 2017 , 11, 521-526	33.9	100
296	Dielectric GaAs antenna ensuring an efficient broadband coupling between an InAs quantum dot and a Gaussian optical beam. <i>Physical Review Letters</i> , 2013 , 110, 177402	7.4	99
295	Nonreciprocal transmission in a nonlinear photonic-crystal Fano structure with broken symmetry. <i>Laser and Photonics Reviews</i> , 2015 , 9, 241-247	8.3	95
294	Improved switching using Fano resonances in photonic crystal structures. <i>Optics Letters</i> , 2013 , 38, 2466-8		83
293	Non-markovian model of photon-assisted dephasing by electron-phonon interactions in a coupled quantum-dot-cavity system. <i>Physical Review Letters</i> , 2010 , 104, 157401	7.4	81
292	Influence of pure dephasing on emission spectra from single photon sources. <i>Physical Review A</i> , 2008 , 78,	2.6	78
291	Fano resonance control in a photonic crystal structure and its application to ultrafast switching. <i>Applied Physics Letters</i> , 2014 , 105, 061117	3.4	74
290	Dephasing times in quantum dots due to elastic LO phonon-carrier collisions. <i>Physical Review Letters</i> , 2000 , 85, 1516-9	7.4	73
289	Quantum dot amplifiers with high output power and low noise. <i>Applied Physics Letters</i> , 2003 , 82, 3083-3085	3.4	72
288	Wideband 360 degrees microwave photonic phase shifter based on slow light in semiconductor optical amplifiers. <i>Optics Express</i> , 2010 , 18, 6156-63	3.3	70
287	. <i>IEEE Photonics Technology Letters</i> , 1992 , 4, 443-446	2.2	70
286	Modulation response of nanoLEDs and nanolasers exploiting Purcell enhanced spontaneous emission. <i>Optics Express</i> , 2010 , 18, 11230-41	3.3	67
285	. <i>IEEE Journal of Quantum Electronics</i> , 1990 , 26, 642-654	2	67
284	Numerical investigation of electromagnetically induced transparency in a quantum dot structure. <i>Optics Express</i> , 2007 , 15, 6396-408	3.3	66
283	Controlling the emission profile of a nanowire with a conical taper. <i>Optics Letters</i> , 2008 , 33, 1693-5	3	64
282	Experimental and theoretical investigation of the impact of ultra-fast carrier dynamics on high-speed SOA-based all-optical switches. <i>Optics Express</i> , 2006 , 14, 331-47	3.3	62
281	Increasing the modulation bandwidth of semiconductor-optical-amplifier-based switches by using optical filtering. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004 , 21, 1606	1.7	62
280	Heterodyne pump-probe and four-wave mixing in semiconductor optical amplifiers using balanced lock-in detection. <i>Optics Communications</i> , 1999 , 169, 317-324	2	56

279	Widely Tunable Microwave Photonic Notch Filter Based on Slow and Fast Light Effects. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 167-169	2.2	55
278	Slow-light-enhanced gain in active photonic crystal waveguides. <i>Nature Communications</i> , 2014 , 5, 5039	17.4	48
277	Low-jitter and high-power 40-GHz all-active mode-locked lasers. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 975-977	2.2	48
276	Enhancing light slow-down in semiconductor optical amplifiers by optical filtering. <i>Optics Letters</i> , 2008 , 33, 1084-6	3	46
275	Photonic crystal Fano laser: terahertz modulation and ultrashort pulse generation. <i>Physical Review Letters</i> , 2014 , 113, 163901	7.4	45
274	Subwavelength Grating-Mirror VCSEL With a Thin Oxide Gap. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 105-107	2.2	45
273	Coherent single-photon absorption by single emitters coupled to one-dimensional nanophotonic waveguides. <i>New Journal of Physics</i> , 2011 , 13, 103010	2.9	44
272	The modulation response of a semiconductor laser amplifier. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1999 , 5, 851-860	3.8	44
271	Microscopic theory of phonon-induced effects on semiconductor quantum dot decay dynamics in cavity QED. <i>Physical Review B</i> , 2012 , 86,	3.3	43
270	Threshold Characteristics of Slow-Light Photonic Crystal Lasers. <i>Physical Review Letters</i> , 2016 , 116, 063901	9.1	42
269	Microscopic theory of indistinguishable single-photon emission from a quantum dot coupled to a cavity: The role of non-Markovian phonon-induced decoherence. <i>Physical Review B</i> , 2013 , 87,	3.3	42
268	Slow Light in a Semiconductor Waveguide for True-Time Delay Applications in Microwave Photonics. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1145-1147	2.2	42
267	. <i>IEEE Photonics Technology Letters</i> , 1990 , 2, 21-23	2.2	41
266	Probing Electron-Phonon Interaction through Two-Photon Interference in Resonantly Driven Semiconductor Quantum Dots. <i>Physical Review Letters</i> , 2017 , 118, 233602	7.4	40
265	Silicon-photonics light source realized by III/V/Si-grating-mirror laser. <i>Applied Physics Letters</i> , 2010 , 97, 151113	3.4	40
264	Designs for high-efficiency electrically pumped photonic nanowire single-photon sources. <i>Optics Express</i> , 2010 , 18, 21204-18	3.3	40
263	Microwave phase shifter with controllable power response based on slow- and fast-light effects in semiconductor optical amplifiers. <i>Optics Letters</i> , 2009 , 34, 929-31	3	40
262	Controllable delay of ultrashort pulses in a quantum dot optical amplifier. <i>Optics Express</i> , 2005 , 13, 8032-33	3.3	40

261	Geometry dependence of Auger carrier capture rates into cone-shaped self-assembled quantum dots. <i>Physical Review B</i> , 2003 , 67,	3-3	38
260	One- and two-phonon capture processes in quantum dots. <i>Journal of Applied Physics</i> , 2002 , 92, 5982-5990.	3-5	38
259	Terahertz four-wave mixing in semiconductor optical amplifiers: Experiment and theory. <i>Applied Physics Letters</i> , 1994 , 65, 944-946	3-4	38
258	Spontaneous emission from large quantum dots in nanostructures: Exciton-photon interaction beyond the dipole approximation. <i>Physical Review B</i> , 2012 , 86,	3-3	37
257	Switching characteristics of an InP photonic crystal nanocavity: experiment and theory. <i>Optics Express</i> , 2013 , 21, 31047-61	3-3	37
256	Analysis of timing jitter in external-cavity mode-locked semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , 2006 , 42, 249-256	2	37
255	Line broadening caused by Coulomb carrier-carrier correlations and dynamics of carrier capture and emission in quantum dots. <i>Applied Physics Letters</i> , 2001 , 79, 1679-1681	3-4	37
254	Maximizing the quality factor to mode volume ratio for ultra-small photonic crystal cavities. <i>Applied Physics Letters</i> , 2018 , 113, 241101	3-4	37
253	Bright single photon source based on self-aligned quantum dot-cavity systems. <i>Optics Express</i> , 2014 , 22, 8136-42	3-3	36
252	Optical properties and optimization of electromagnetically induced transparency in strained InAs/GaAs quantum dot structures. <i>Physical Review B</i> , 2009 , 80,	3-3	36
251	Linearly polarized, single-mode spontaneous emission in a photonic nanowire. <i>Physical Review Letters</i> , 2012 , 108, 077405	7-4	35
250	Measurement and calculation of the critical pulsewidth for gain saturation in semiconductor optical amplifiers. <i>Optics Communications</i> , 1999 , 164, 51-55	2	35
249	Resonance fluorescence from semiconductor quantum dots: beyond the Mollow triplet. <i>Physical Review Letters</i> , 2012 , 108, 017401	7-4	34
248	Investigation of Patterning Effects in Ultrafast SOA-Based Optical Switches. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 87-94	2	34
247	The role of phonon scattering in the indistinguishability of photons emitted from semiconductor cavity QED systems. <i>New Journal of Physics</i> , 2013 , 15, 035027	2-9	33
246	High-index-contrast grating reflector with beam steering ability for the transmitted beam. <i>Optics Express</i> , 2011 , 19, 23567-72	3-3	33
245	Broadband MEMS-Tunable High-Index-Contrast Subwavelength Grating Long-Wavelength VCSEL. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 1245-1253	2	33
244	Fundamental limitations to gain enhancement in periodic media and waveguides. <i>Physical Review Letters</i> , 2012 , 108, 183903	7-4	32

243	Ultrafast gain and index dynamics of quantum dash structures emitting at 1.55 μ m. <i>Applied Physics Letters</i> , 2006 , 89, 081102	3.4	32
242	Dynamical and noise properties of laser diodes subject to strong optical feedback. <i>Optics Letters</i> , 1994 , 19, 2137-9	3	32
241	Hybrid vertical-cavity laser with lateral emission into a silicon waveguide. <i>Laser and Photonics Reviews</i> , 2015 , 9, L11	8.3	31
240	On high-speed cross-gain modulation without pattern effects in quantum dot semiconductor optical amplifiers. <i>Optics Communications</i> , 2003 , 227, 363-369	2	31
239	Gain dynamics and saturation in semiconductor quantum dot amplifiers. <i>New Journal of Physics</i> , 2004 , 6, 178-178	2.9	31
238	Quantum-dot nano-cavity lasers with Purcell-enhanced stimulated emission. <i>Applied Physics Letters</i> , 2012 , 100, 131107	3.4	30
237	Theory of nondegenerate four-wave mixing between pulses in a semiconductor waveguide. <i>IEEE Journal of Quantum Electronics</i> , 1997 , 33, 545-555	2	30
236	Analytical expression for the bit error rate of cascaded all-optical regenerators. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 1479-1481	2.2	30
235	All-optical wavelength conversion and signal regeneration using an electroabsorption modulator. <i>Journal of Lightwave Technology</i> , 2000 , 18, 1121-1127	4	30
234	Scattering of two photons on a quantum emitter in a one-dimensional waveguide: exact dynamics and induced correlations. <i>New Journal of Physics</i> , 2015 , 17, 023030	2.9	29
233	Ultrafast all-optical modulation using a photonic-crystal Fano structure with broken symmetry. <i>Optics Letters</i> , 2015 , 40, 2357-60	3	29
232	Numerical and Experimental Study of the Q^2 Factor of High- Q Micropillar Cavities. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 1470-1483	2	29
231	Decoherence in semiconductor cavity QED systems due to phonon couplings. <i>Physical Review B</i> , 2014 , 90,	3.3	28
230	. <i>IEEE Photonics Technology Letters</i> , 1990 , 2, 549-552	2.2	28
229	Slow and Fast Light Effects and Their Applications to Microwave Photonics Using Semiconductor Optical Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 3022-3038	4.1	27
228	Voltage-controlled slow light in an integrated semiconductor structure with net gain. <i>Optics Express</i> , 2006 , 14, 9955-62	3.3	27
227	Optical label encoding using electroabsorption modulators and investigation of chirp properties. <i>Journal of Lightwave Technology</i> , 2003 , 21, 1763-1769	4	27
226	Noise and regeneration in semiconductor waveguides with saturable gain and absorption. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 245-255	2	27

225	Rate equation description of quantum noise in nanolasers with few emitters. <i>Applied Physics Letters</i> , 2018 , 112, 141103	3.4	26
224	Modeling and Design of High-Efficiency Single-Photon Sources. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 1-16	3.8	26
223	Reducing the impact of inhomogeneous broadening on quantum dot based electromagnetically induced transparency. <i>Applied Physics Letters</i> , 2009 , 94, 071108	3.4	26
222	Influence of wetting-layer wave functions on phonon-mediated carrier capture into self-assembled quantum dots. <i>Physical Review B</i> , 2006 , 74,	3.3	26
221	Highly directive and Gaussian far-field emission from giant photonic trumpets. <i>Applied Physics Letters</i> , 2015 , 107, 141106	3.4	25
220	Spontaneous decay of a single quantum dot coupled to a metallic slot waveguide in the presence of leaky plasmonic modes. <i>Optics Express</i> , 2010 , 18, 12489-98	3.3	25
219	Decay dynamics of radiatively coupled quantum dots in photonic crystal slabs. <i>Physical Review B</i> , 2011 , 83,	3.3	25
218	Modeling of carrier dynamics in quantum-well electroabsorption modulators. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2002 , 8, 1265-1276	3.8	25
217	Measurement of pulse amplitude and phase distortion in a semiconductor optical amplifier: from pulse compression to breakup. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 1674-1676	2.2	25
216	Heterodyne pump probe measurements of nonlinear dynamics in an indium phosphide photonic crystal cavity. <i>Applied Physics Letters</i> , 2013 , 103, 181120	3.4	24
215	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
214	Polarization-independent high-index contrast grating and its fabrication tolerances. <i>Applied Optics</i> , 2013 , 52, 1049-53	1.7	24
213	Theory of Optical-Filtering Enhanced Slow and Fast Light Effects in Semiconductor Optical Waveguides. <i>Journal of Lightwave Technology</i> , 2008 , 26, 3734-3743	4	24
212	Experimental demonstration of a four-port photonic crystal cross-waveguide structure. <i>Applied Physics Letters</i> , 2012 , 101, 251113	3.4	23
211	Slow and fast light: Controlling the speed of light using semiconductor waveguides. <i>Laser and Photonics Reviews</i> , 2009 , 3, 30-44	8.3	22
210	Comparison of all-optical co- and counter-propagating high-speed signal processing in SOA-based Mach-Zehnder interferometers. <i>Optical and Quantum Electronics</i> , 2001 , 33, 907-926	2.4	22
209	Limits to coherent scattering and photon coalescence from solid-state quantum emitters. <i>Physical Review B</i> , 2017 , 95,	3.3	21
208	Theory of nanolaser devices: Rate equation analysis versus microscopic theory. <i>Physical Review B</i> , 2013 , 87,	3.3	21

207	Theory of passively mode-locked photonic crystal semiconductor lasers. <i>Optics Express</i> , 2010 , 18, 18003-14	3.4	21
206	Oscillatory variations in the Q factors of high quality micropillar cavities. <i>Applied Physics Letters</i> , 2009 , 94, 061108	3.4	21
205	Comparison of electromagnetically induced transparency schemes in semiconductor quantum dot structures: Impact of many-body interactions. <i>Physical Review B</i> , 2009 , 79,	3.3	21
204	High-performance 10 GHz all-active monolithic modelocked semiconductor lasers. <i>Electronics Letters</i> , 2004 , 40, 735	1.1	21
203	Heterodyne technique for measuring the amplitude and phase transfer functions of an optical modulator. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 621-623	2.2	21
202	Light Scattering from Solid-State Quantum Emitters: Beyond the Atomic Picture. <i>Physical Review Letters</i> , 2019 , 123, 167403	7.4	20
201	Roundtrip matrix method for calculating the leaky resonant modes of open nanophotonic structures. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014 , 31, 2142-51	1.8	20
200	Hybrid grating reflector with high reflectivity and broad bandwidth. <i>Optics Express</i> , 2014 , 22, 21175-84	3.3	20
199	Measuring the effective phonon density of states of a quantum dot in cavity quantum electrodynamics. <i>Physical Review B</i> , 2013 , 88,	3.3	20
198	Three-dimensional integral equation approach to light scattering, extinction cross sections, local density of states, and quasi-normal modes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 1996	1.7	20
197	Separation of coherent and incoherent nonlinearities in a heterodyne pump-probe experiment. <i>Optics Express</i> , 2000 , 7, 107-12	3.3	20
196	Optical generation of millimeter-waves using a dual-polarization emission external cavity diode laser. <i>IEEE Photonics Technology Letters</i> , 1996 , 8, 157-159	2.2	20
195	Ultrafast Coherent Dynamics of a Photonic Crystal All-Optical Switch. <i>Physical Review Letters</i> , 2016 , 117, 233901	7.4	20
194	On the Theory of Coupled Modes in Optical Cavity-Waveguide Structures. <i>Journal of Lightwave Technology</i> , 2017 , 35, 4247-4259	4	19
193	Slow light in quantum dot photonic crystal waveguides. <i>Applied Physics Letters</i> , 2009 , 94, 113111	3.4	19
192	7x 40 Gb/s base-rate RZ all-optical broadcasting utilizing an electroabsorption modulator. <i>Optics Express</i> , 2004 , 12, 416-20	3.3	19
191	In-Plane Photonic Crystal Devices using Fano Resonances. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1900054	5.3	18
190	Dynamical Properties of Nanolasers Based on Few Discrete Emitters. <i>IEEE Journal of Quantum Electronics</i> , 2013 , 49, 945-954	2	18

189	High beta lasing in micropillar cavities with adiabatic layer design. <i>Applied Physics Letters</i> , 2013 , 102, 052114	3.4	18
188	Carrier temperature and spectral holeburning dynamics in InGaAsP quantum well laser amplifiers. <i>Applied Physics Letters</i> , 1994 , 64, 143-145	3.4	18
187	Ultracompact resonator with high quality-factor based on a hybrid grating structure. <i>Optics Express</i> , 2015 , 23, 14913-21	3.3	17
186	Modes, stability, and small-signal response of photonic crystal Fano lasers. <i>Optics Express</i> , 2018 , 26, 16365-16376	3.3	17
185	Vertical-cavity in-plane heterostructures: Physics and applications. <i>Applied Physics Letters</i> , 2015 , 107, 181107	3.4	17
184	A new orthogonal labeling scheme based on a 40-Gb/s DPSK payload and a 2.5-Gb/s PolSK label. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 2772-2774	2.2	17
183	Theory of Self-pulsing in Photonic Crystal Fano Lasers. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700089	8.3	16
182	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
181	Systematic design of loss-engineered slow-light waveguides. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012 , 29, 2657-66	1.8	16
180	Dynamic Spatiotemporal Speed Control of Ultrashort Pulses in Quantum-Dot SOAs. <i>IEEE Journal of Quantum Electronics</i> , 2006 , 42, 1047-1054	2	16
179	A broadband tapered nanocavity for efficient nonclassical light emission. <i>Optics Express</i> , 2016 , 24, 20904-24	3.3	16
178	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
177	Signal reshaping and noise suppression using photonic crystal Fano structures. <i>Optics Express</i> , 2018 , 26, 19596-19605	3.3	15
176	Wavelength Conversion of a 9.35-Gb/s RZ OOK Signal in an InP Photonic Crystal Nanocavity. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 257-260	2.2	15
175	Semianalytical quasi-normal mode theory for the local density of states in coupled photonic crystal cavity-waveguide structures. <i>Optics Letters</i> , 2015 , 40, 5790-3	3	15
174	Energy-bandwidth trade-off in all-optical photonic crystal microcavity switches. <i>Optics Express</i> , 2011 , 19, 18410-22	3.3	15
173	Modulation response of quantum dot nanolight-emitting-diodes exploiting purcell-enhanced spontaneous emission. <i>Applied Physics Letters</i> , 2011 , 98, 211109	3.4	15
172	Monolithically integrated reflective SOA-EA carrier re-modulator for broadband access nodes. <i>Optics Express</i> , 2006 , 14, 8060-4	3.3	15

171	Improving the all-optical response of SOAs using a modulated holding signal. <i>Journal of Lightwave Technology</i> , 2004 , 22, 1303-1308	4	15
170	Collective Quantum Memory Activated by a Driven Central Spin. <i>Physical Review Letters</i> , 2019 , 123, 140502	2	14
169	Self-consistent Maxwell-Bloch model of quantum-dot photonic-crystal-cavity lasers. <i>Physical Review A</i> , 2017 , 96,	2.6	14
168	On the use of slow light for enhancing waveguide properties. <i>Optics Letters</i> , 2010 , 35, 2834-6	3	14
167	Modeling of bit error rate in cascaded 2R regenerators. <i>Journal of Lightwave Technology</i> , 2006 , 24, 1057-1063	4	14
166	Bidirectional four-wave mixing in semiconductor optical amplifiers: theory and experiment. <i>Journal of Lightwave Technology</i> , 1999 , 17, 1617-1625	4	14
165	Transient four-wave mixing with a collinear pump and probe. <i>Optics Letters</i> , 1996 , 21, 1017-9	3	14
164	Limits of stable operation of AR-coated semiconductor lasers with strong optical feedback. <i>Electronics Letters</i> , 1988 , 24, 1065	1.1	14
163	Nonlinear switching dynamics in a photonic-crystal nanocavity. <i>Applied Physics Letters</i> , 2014 , 105, 071113	4	13
162	Bandwidth enhancement of SOA-based switches using optical filtering: theory and experimental verification. <i>Optics Express</i> , 2006 , 14, 1260-5	3.3	13
161	Semiconductor quantum dots devices: Recent advances and application prospects. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3981-3987	1.3	13
160	. <i>IEEE Photonics Technology Letters</i> , 1996 , 8, 40-42	2.2	13
159	Phonon effects in quantum dot single-photon sources. <i>Optical Materials Express</i> , 2020 , 10, 222	2.6	13
158	Proposed quenching of phonon-induced processes in photoexcited quantum dots due to electron-hole asymmetries. <i>Physical Review Letters</i> , 2013 , 110, 087401	7.4	12
157	Slow-light enhanced absorption in a hollow-core fiber. <i>Optics Express</i> , 2010 , 18, 14270-9	3.3	12
156	Photonic generation of ultrawideband monocycle and doublet pulses by using a semiconductor-optical-amplifier-based wavelength converter. <i>Optics Letters</i> , 2009 , 34, 1336-8	3	12
155	Spectral symmetry of Fano resonances in a waveguide coupled to a microcavity. <i>Optics Letters</i> , 2016 , 41, 2065-8	3	12
154	Quantum light-matter interaction and controlled phonon scattering in a photonic Fano cavity. <i>Physical Review B</i> , 2019 , 100,	3.3	12

153	Strong nonlinearity-induced correlations for counterpropagating photons scattering on a two-level emitter. <i>Physical Review A</i> , 2015 , 91,	2.6	11
152	Pulse carving using nanocavity-enhanced nonlinear effects in photonic crystal Fano structures. <i>Optics Letters</i> , 2018 , 43, 955-958	3	11
151	Optimal switching using coherent control. <i>Applied Physics Letters</i> , 2013 , 102, 041107	3.4	11
150	Slow and fast light in semiconductor waveguides. <i>Semiconductor Science and Technology</i> , 2010 , 25, 083002	3.3	11
149	Light propagation in finite-sized photonic crystals: multiple scattering using an electric field integral equation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 228	1.7	11
148	A scheme comparison of Autler-Townes based slow light in inhomogeneously broadened quantum dot media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 2654	1.7	11
147	Quality factors of nonideal micro pillars. <i>Applied Physics Letters</i> , 2007 , 91, 011116	3.4	11
146	Ultra-coherent Fano laser based on a bound state in the continuum. <i>Nature Photonics</i> , 2021 , 15, 758-764	3.9	11
145	Benchmarking five numerical simulation techniques for computing resonance wavelengths and quality factors in photonic crystal membrane line defect cavities. <i>Optics Express</i> , 2018 , 26, 11366-11392	3.3	10
144	Limitations of two-level emitters as nonlinearities in two-photon controlled-phase gates. <i>Physical Review A</i> , 2017 , 95,	2.6	10
143	Controlling Microwave Signals by Means of Slow and Fast Light Effects in SOA-EA Structures. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1589-1591	2.2	10
142	Steep and adjustable transfer functions of monolithic SOA-EA 2R regenerators. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 1067-1069	2.2	10
141	Influence of quasibound states on the carrier capture in quantum dots. <i>Applied Physics Letters</i> , 2002 , 81, 4318-4320	3.4	10
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