

Jacob B Khurgin

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423
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h-index

77
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587
ext. papers

11,667
ext. citations

4.2
avg. IF

7.14
L-index

#	Paper	IF	Citations
423	How to deal with the loss in plasmonics and metamaterials. <i>Nature Nanotechnology</i> , 2015 , 10, 2-6	28.7	581
422	Locally oxidized silicon surface-plasmon Schottky detector for telecom regime. <i>Nano Letters</i> , 2011 , 11, 2219-24	11.5	226
421	Optical buffers based on slow light in electromagnetically induced transparent media and coupled resonator structures: comparative analysis. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 1062	1.7	218
420	On-Chip Integrated, Silicon-Graphene Plasmonic Schottky Photodetector with High Responsivity and Avalanche Photogain. <i>Nano Letters</i> , 2016 , 16, 3005-13	11.5	199
419	Reflecting upon the losses in plasmonics and metamaterials. <i>MRS Bulletin</i> , 2012 , 37, 768-779	3.2	172
418	High-Performance Single-Crystalline Perovskite Thin-Film Photodetector. <i>Advanced Materials</i> , 2018 , 30, 1704333	24	166
417	Second-order nonlinear effects in asymmetric quantum-well structures. <i>Physical Review B</i> , 1988 , 38, 4056-4066	14.0	140
416	Waveguide based compact silicon Schottky photodetector with enhanced responsivity in the telecom spectral band. <i>Optics Express</i> , 2012 , 20, 28594-602	3.3	132
415	Highly power-efficient quantum cascade lasers. <i>Nature Photonics</i> , 2010 , 4, 95-98	33.9	119
414	Slow light in various media: a tutorial. <i>Advances in Optics and Photonics</i> , 2010 , 2, 287	16.7	111
413	Phased-array cancellation of nonlinear FWM in coherent OFDM dispersive multi-span links. <i>Optics Express</i> , 2008 , 16, 15777-810	3.3	111
412	Wide-bandwidth continuously tunable optical delay line using silicon microring resonators. <i>Optics Express</i> , 2010 , 18, 26525-34	3.3	106
411	Comparative analysis of spasers, vertical-cavity surface-emitting lasers and surface-plasmon-emitting diodes. <i>Nature Photonics</i> , 2014 , 8, 468-473	33.9	102
410	Practicable enhancement of spontaneous emission using surface plasmons. <i>Applied Physics Letters</i> , 2007 , 90, 111107	3.4	100
409	Practical enhancement of photoluminescence by metal nanoparticles. <i>Applied Physics Letters</i> , 2009 , 94, 101103	3.4	96
408	In search of the elusive lossless metal. <i>Applied Physics Letters</i> , 2010 , 96, 181102	3.4	92
407	Scaling of losses with size and wavelength in nanoplasmonics and metamaterials. <i>Applied Physics Letters</i> , 2011 , 99, 211106	3.4	87

406	Coherent frequency combs produced by self frequency modulation in quantum cascade lasers. <i>Applied Physics Letters</i> , 2014 , 104, 081118	3.4	85
405	. <i>IEEE Journal of Quantum Electronics</i> , 1993 , 29, 1104-1111	2	83
404	Plasmonic enhanced silicon pyramids for internal photoemission Schottky detectors in the near-infrared regime. <i>Optica</i> , 2015 , 2, 335	8.6	81
403	Microwave Photonic Delay Line With Separate Tuning of the Optical Carrier. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 1686-1688	2.2	80
402	Practicality of compensating the loss in the plasmonic waveguides using semiconductor gain medium. <i>Applied Physics Letters</i> , 2012 , 100, 011105	3.4	76
401	Expanding the bandwidth of slow-light photonic devices based on coupled resonators. <i>Optics Letters</i> , 2005 , 30, 513-5	3	74
400	Charge-Induced Second-Harmonic Generation in Bilayer WSe ₂ . <i>Nano Letters</i> , 2015 , 15, 5653-7	11.5	72
399	Enhancement of luminescence efficiency using surface plasmon polaritons: figures of merit. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007 , 24, 1968	1.7	70
398	Enhancement of optical properties of nanoscaled objects by metal nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, B83	1.7	69
397	Role of interface roughness in the transport and lasing characteristics of quantum-cascade lasers. <i>Applied Physics Letters</i> , 2009 , 94, 091101	3.4	65
396	Plasmonic light-emission enhancement with isolated metal nanoparticles and their coupled arrays. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 1748	1.7	65
395	Ultimate limit of field confinement by surface plasmon polaritons. <i>Faraday Discussions</i> , 2015 , 178, 109-236	3.6	64
394	Hot carriers generated by plasmons: where are they generated and where do they go from there?. <i>Faraday Discussions</i> , 2019 , 214, 35-58	3.6	63
393	Strain-free Ge _{1-x} Si _x Sn quantum cascade lasers based on L-valley intersubband transitions. <i>Applied Physics Letters</i> , 2007 , 90, 251105	3.4	63
392	Linearized Mach-Zehnder intensity modulator. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 531-533	2.2	62
391	Second-order susceptibility of asymmetric coupled quantum well structures. <i>Applied Physics Letters</i> , 1987 , 51, 2100-2102	3.4	60
390	Graphene: a rather ordinary nonlinear optical material. <i>Applied Physics Letters</i> , 2014 , 104, 161116	3.4	59
389	Electron beam pumped lasing in ZnSe/ZnS _{1-x} Se _x superlattice structures grown by molecular-beam epitaxy. <i>Journal of Applied Physics</i> , 1987 , 62, 3071-3074	2.5	59

388	Active region design of a terahertz GaN/ Al _{0.15} Ga _{0.85} N quantum cascade laser. <i>Superlattices and Microstructures</i> , 2005 , 37, 107-113	2.8	58
387	Fundamental limitations in spontaneous emission rate of single-photon sources. <i>Optica</i> , 2016 , 3, 1418	8.6	57
386	Landau Damping and Limit to Field Confinement and Enhancement in Plasmonic Dimers. <i>ACS Photonics</i> , 2017 , 4, 2871-2880	6.3	54
385	Backward optical parametric oscillators and amplifiers. <i>IEEE Journal of Quantum Electronics</i> , 1996 , 32, 1574-1582	2	54
384	Hot phonon effect on electron velocity saturation in GaN: A second look. <i>Applied Physics Letters</i> , 2007 , 91, 252104	3.4	53
383	Light slowing down in Moiré Fiber gratings and its implications for nonlinear optics. <i>Physical Review A</i> , 2000 , 62,	2.6	52
382	Trace gas Raman spectroscopy using functionalized waveguides. <i>Optica</i> , 2016 , 3, 891	8.6	51
381	Practical limits of absorption enhancement near metal nanoparticles. <i>Applied Physics Letters</i> , 2009 , 94, 071103	3.4	51
380	Impact of high-order surface plasmon modes of metal nanoparticles on enhancement of optical emission. <i>Applied Physics Letters</i> , 2009 , 95, 171103	3.4	51
379	Hyperbolic metamaterials: beyond the effective medium theory. <i>Optica</i> , 2016 , 3, 1388	8.6	51
378	Optical isolating action in surface plasmon polaritons. <i>Applied Physics Letters</i> , 2006 , 89, 251115	3.4	50
377	Performance limits of delay lines based on optical amplifiers. <i>Optics Letters</i> , 2006 , 31, 948-50	3	50
376	How small can a nanolaser be in a nanolaser? <i>Nanophotonics</i> , 2012 , 1, 3-8	6.3	48
375	Plasmonic enhancement of the third order nonlinear optical phenomena: figures of merit. <i>Optics Express</i> , 2013 , 21, 27460-80	3.3	48
374	Linearized silicon modulator based on a ring assisted Mach Zehnder inteferometer. <i>Optics Express</i> , 2013 , 21, 22549-57	3.3	47
373	Backward second-harmonic and third-harmonic generation in a periodically poled potassium titanyl phosphate waveguide. <i>Optics Letters</i> , 1999 , 24, 127-9	3	47
372	Backward second-harmonic generation in periodically poled lithium niobate. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998 , 15, 1561	1.7	46
371	Injection pumped single mode surface plasmon generators: threshold, linewidth, and coherence. <i>Optics Express</i> , 2012 , 20, 15309-25	3.3	45

370	A new scheme for efficient generation of coherent and incoherent submillimeter to THz waves in periodically-poled lithium niobate. <i>Optics Communications</i> , 1998 , 148, 105-109	2	45
369	Fundamental limits of hot carrier injection from metal in nanoplasmonics. <i>Nanophotonics</i> , 2020 , 9, 453-471	1.3	45
368	Plasmonic Hot Carriers-Controlled Second Harmonic Generation in WSe Bilayers. <i>Nano Letters</i> , 2018 , 18, 1686-1692	11.5	44
367	Density-dependent electron transport and precise modeling of GaN high electron mobility transistors. <i>Applied Physics Letters</i> , 2015 , 107, 153504	3.4	44
366	Origin of giant difference between fluorescence, resonance, and nonresonance Raman scattering enhancement by surface plasmons. <i>Physical Review A</i> , 2012 , 85,	2.6	44
365	Laser-rate-equation description of optomechanical oscillators. <i>Physical Review Letters</i> , 2012 , 108, 223904	4.4	44
364	Randomization of gold nano-brick arrays: a tool for SERS enhancement. <i>Optics Express</i> , 2013 , 21, 13502-13	1.3	43
363	Electroluminescence efficiency enhancement using metal nanoparticles. <i>Applied Physics Letters</i> , 2008 , 93, 021120	3.4	43
362	Picosecond acoustic phonon pulse propagation in silicon. <i>Physical Review B</i> , 2004 , 70,	3.3	43
361	Scaling Rules of SERS Intensity. <i>Advanced Optical Materials</i> , 2014 , 2, 382-388	8.1	42
360	Tunable wideband optical delay line based on balanced coupled resonator structures. <i>Optics Letters</i> , 2009 , 34, 2655-7	3	42
359	Comparative analysis of optically pumped intersubband lasers and intersubband Raman oscillators. <i>Journal of Applied Physics</i> , 1995 , 78, 7398-7400	2.5	42
358	Importance of interface roughness induced intersubband scattering in mid-infrared quantum cascade lasers. <i>Applied Physics Letters</i> , 2012 , 101, 171117	3.4	41
357	Investigation of 2-b/s/Hz 40-gb/s DWDM transmission over 4/spl times/100 km SMF-28 fiber using RZ-DQPSK and polarization multiplexing. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 656-658	2.2	41
356	Influence of the size dispersion on the emission spectra of the Si nanostructures. <i>Applied Physics Letters</i> , 1996 , 69, 1241-1243	3.4	41
355	Suppression of cross-gain modulation in SOA using RZ-DPSK modulation format. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 162-164	2.2	40
354	Optical rectification and terahertz emission in semiconductors excited above the band gap. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994 , 11, 2492	1.7	39
353	Replacing noble metals with alternative materials in plasmonics and metamaterials: how good an idea?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	38

352	Comparative Analysis of Metals and Alternative Infrared Plasmonic Materials. <i>ACS Photonics</i> , 2018 , 5, 2541-2548	6.3	38
351	Fast Thermal Switching of Wideband Optical Delay Line With No Long-Term Transient. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 512-514	2.2	38
350	Surface Plasmon-Assisted Laser Cooling of Solids. <i>Physical Review Letters</i> , 2007 , 98,	7.4	37
349	Current induced second harmonic generation in semiconductors. <i>Applied Physics Letters</i> , 1995 , 67, 1113-1115	3.15	37
348	Trace gas absorption spectroscopy using functionalized microring resonators. <i>Optics Letters</i> , 2014 , 39, 969-72	3	36
347	Role of bandtail states in laser cooling of semiconductors. <i>Physical Review B</i> , 2008 , 77,	3.3	36
346	Cost-effective low timing jitter passively Q-switched diode-pumped solid-state laser with composite pumping pulses. <i>Applied Optics</i> , 2002 , 41, 1095-7	1.7	36
345	Transversely pumped counterpropagating optical parametric oscillation and amplification. <i>Physical Review Letters</i> , 1995 , 75, 429-432	7.4	36
344	Second-harmonic generation based on quasi-phase matching: a novel configuration. <i>Optics Letters</i> , 1996 , 21, 1445-7	3	36
343	Comparative study of field enhancement between isolated and coupled metal nanoparticles: An analytical approach. <i>Applied Physics Letters</i> , 2010 , 97, 263110	3.4	35
342	Nonlinear epsilon-near-zero materials explained: opinion. <i>Optical Materials Express</i> , 2019 , 9, 2793	2.6	35
341	The Role of Surface Roughness in Plasmonic-Assisted Internal Photoemission Schottky Photodetectors. <i>ACS Photonics</i> , 2018 , 5, 4030-4036	6.3	35
340	ITO-based electro-absorption modulator for photonic neural activation function. <i>APL Materials</i> , 2019 , 7, 081112	5.7	34
339	Nonlinear optical properties of halide perovskites and their applications. <i>Applied Physics Reviews</i> , 2020 , 7, 041313	17.3	34
338	Ultralinear heterogeneously integrated ring-assisted Mach-Zehnder interferometer modulator on silicon. <i>Optica</i> , 2016 , 3, 1483	8.6	34
337	Waveguide-based electro-absorption modulator performance: comparative analysis. <i>Optics Express</i> , 2018 , 26, 15445-15470	3.3	33
336	Reversible MoS Origami with Spatially Resolved and Reconfigurable Photosensitivity. <i>Nano Letters</i> , 2019 , 19, 7941-7949	11.5	33
335	Dispersion and loss limitations on the performance of optical delay lines based on coupled resonant structures. <i>Optics Letters</i> , 2007 , 32, 133-5	3	33

334	Excitonic Emission of Monolayer Semiconductors Near-Field Coupled to High-Q Microresonators. <i>Nano Letters</i> , 2018 , 18, 3138-3146	11.5	32
333	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-9	3.8	32
332	Characterization of recombination processes in multiple narrow asymmetric coupled quantum wells based on the dependence of photoluminescence on laser intensity. <i>Applied Physics Letters</i> , 1992 , 60, 2051-2053	3.4	32
331	Adiabatic frequency shifting in epsilon-near-zero materials: the role of group velocity. <i>Optica</i> , 2020 , 7, 226	8.6	32
330	Ultrafast Thermal Nonlinearity. <i>Scientific Reports</i> , 2015 , 5, 17899	4.9	31
329	Plasmon Enhancement of Luminescence by Metal Nanoparticles. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011 , 17, 110-118	3.8	31
328	Inhomogeneous origin of the interface roughness broadening of intersubband transitions. <i>Applied Physics Letters</i> , 2008 , 93, 091104	3.4	31
327	Ultrabroad-bandwidth electro-optic modulator based on a cascaded Bragg grating. <i>Optics Letters</i> , 2000 , 25, 70-2	3	31
326	Room-temperature photopumped blue lasing in ZnSe-ZnS _{0.06} Se _{0.94} double heterostructures. <i>Applied Physics Letters</i> , 1991 , 59, 310-311	3.4	31
325	Ultrafast quantum photonics enabled by coupling plasmonic nanocavities to strongly radiative antennas. <i>Optica</i> , 2020 , 7, 463	8.6	31
324	Relative merits of phononics vs. plasmonics: the energy balance approach. <i>Nanophotonics</i> , 2018 , 7, 305-316	3.6	31
323	Attojoule-efficient graphene optical modulators. <i>Applied Optics</i> , 2018 , 57, D130-D140	1.7	31
322	Excitation of plasmonic nanoantennas by nonresonant and resonant electron tunnelling. <i>Nanoscale</i> , 2016 , 8, 14573-9	7.7	29
321	Second-harmonic generation induced by electric currents in GaAs. <i>Physical Review Letters</i> , 2012 , 108, 077403	7.4	29
320	A model for visible photon emission from reverse-biased silicon p-n junctions. <i>Applied Physics Letters</i> , 1997 , 70, 470-471	3.4	29
319	Band gap engineering for laser cooling of semiconductors. <i>Journal of Applied Physics</i> , 2006 , 100, 113116	2.5	29
318	Mechanism for efficient blue second-harmonic generation in periodically segmented waveguides. <i>Applied Physics Letters</i> , 1990 , 57, 2540-2542	3.4	29
317	Active material, optical mode and cavity impact on nanoscale electro-optic modulation performance. <i>Nanophotonics</i> , 2017 , 7, 455-472	6.3	28

316	Excitonic radius in the cavity polariton in the regime of very strong coupling. <i>Solid State Communications</i> , 2001 , 117, 307-310	1.6	28
315	Self-organized nonlinear gratings for ultrafast nanophotonics. <i>Nature Photonics</i> , 2019 , 13, 494-499	33.9	27
314	A deterministic guide for material and mode dependence of on-chip electro-optic modulator performance. <i>Solid-State Electronics</i> , 2017 , 136, 92-101	1.7	27
313	Integrated waveguide-DBR microcavity opto-mechanical system. <i>Optics Express</i> , 2011 , 19, 21904-18	3.3	27
312	Tunable intersubband Raman laser in GaAs/AlGaAs multiple quantum wells. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998 , 15, 648	1.7	27
311	Novel configuration of self-electro-optic effect device based on asymmetric quantum wells. <i>Applied Physics Letters</i> , 1988 , 53, 779-781	3.4	27
310	Scaling vectors of attoJoule per bit modulators. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 014012	1.7	27
309	Guiding of visible photons at the $\lambda/8$ thickness limit. <i>Nature Nanotechnology</i> , 2019 , 14, 844-850	28.7	26
308	Coupled-mode theory of field enhancement in complex metal nanostructures. <i>Physical Review B</i> , 2011 , 84,	3.3	26
307	Theory of backward second-harmonic and third-harmonic generation using laser pulses in quasi-phase-matched second-order nonlinear medium. <i>IEEE Journal of Quantum Electronics</i> , 1998 , 34, 966-974	2	26
306	Closed-Loop Bias Control of Optical Quadrature Modulator. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 2209-2211	2.2	26
305	Continuous-wave photoluminescence excitation spectra of multiple narrow-stepped quantum wells: Evidence for saturation of interface traps. <i>Applied Physics Letters</i> , 1992 , 60, 154-156	3.4	26
304	Electro-optical switching and bistability in coupled quantum wells. <i>Applied Physics Letters</i> , 1989 , 54, 2589-2591	3.4	26
303	Highly linear heterogeneous-integrated Mach-Zehnder interferometer modulators on Si. <i>Optics Express</i> , 2016 , 24, 19040-7	3.3	26
302	Two-dimensional exciton-polariton light guiding by transition metal dichalcogenide monolayers. <i>Optica</i> , 2015 , 2, 740	8.6	25
301	On the origin of the second-order nonlinearity in strained Si ₃ N ₄ structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 2494	1.7	23
300	Valence intersubband lasers with inverted light-hole effective mass. <i>Applied Physics Letters</i> , 1998 , 72, 1481-1483	3.4	23
299	Second-order nonlinear optical susceptibility in p-doped asymmetric quantum wells. <i>Applied Physics Letters</i> , 1993 , 62, 1727-1729	3.4	23

298	Large-scale quantum well domain structures. <i>Journal of Applied Physics</i> , 1988 , 64, 5026-5029	2.5	23
297	Plasmonic silicon Schottky photodetectors: The physics behind graphene enhanced internal photoemission. <i>APL Photonics</i> , 2017 , 2, 026103	5.2	22
296	Reducing crosstalk and signal distortion in wavelength-division multiplexing by increasing carrier lifetimes in semiconductor optical amplifiers. <i>Journal of Lightwave Technology</i> , 2003 , 21, 1474-1485	4	22
295	Experimental characterization of the separation between wavelength-multiplexed quantum and classical communication channels. <i>Applied Physics Letters</i> , 2005 , 87, 174103	3.4	22
294	GENERATION OF THE TERAHERZ RADIATION USING (B) IN SEMICONDUCTOR. <i>Journal of Nonlinear Optical Physics and Materials</i> , 1995 , 04, 163-189	0.8	22
293	Two-photon absorption and nonresonant nonlinear index of refraction in the intersubband transitions in the quantum wells. <i>Applied Physics Letters</i> , 1993 , 62, 126-128	3.4	22
292	Resonant cascaded surface-emitting second-harmonic generation: a strong third-order nonlinear process. <i>Optics Letters</i> , 1994 , 19, 1016-8	3	22
291	Ring-assisted frequency discriminator with improved linearity. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 1136-1138	2.2	21
290	Optimization and Experimental Demonstration of Plasmonic Enhanced Internal Photoemission Silicon Schottky Detectors in the Mid-IR. <i>ACS Photonics</i> , 2017 , 4, 1015-1020	6.3	20
289	Upconversion Due to Optical-Phonon-Assisted Anti-Stokes Photoluminescence in Bulk GaN. <i>ACS Photonics</i> , 2015 , 2, 628-632	6.3	20
288	Mid-infrared difference-frequency generation in suspended GaAs waveguides. <i>Optics Letters</i> , 2014 , 39, 945-8	3	20
287	Cascaded optical nonlinearities: Microscopic understanding as a collective effect. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 1977	1.7	20
286	Feasibility analysis of phonon lasers. <i>IEEE Journal of Quantum Electronics</i> , 2003 , 39, 600-607	2	20
285	Ultrafast generation of blue light by efficient second-harmonic generation in periodically-poled bulk and waveguide potassium titanyl phosphate. <i>Applied Physics Letters</i> , 1998 , 73, 873-875	3.4	20
284	Comparative analysis of the intersubband versus band-to-band transitions in quantum wells. <i>Applied Physics Letters</i> , 1993 , 62, 1390-1392	3.4	20
283	Optically induced currents in dielectrics and semiconductors as a nonlinear optical effect. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, C1	1.7	19
282	Guided-mode phonon-polaritons in suspended waveguides. <i>Physical Review B</i> , 2012 , 86,	3.3	19
281	Adiabatically tunable optical delay lines and their performance limitations. <i>Optics Letters</i> , 2005 , 30, 2778-80	3.8	19

280	Slowing and stopping photons using backward frequency conversion in quasi-phase-matched waveguides. <i>Physical Review A</i> , 2005 , 72,	2.6	19
279	Spectral measurement of the nonlinear refractive index in ZnSe using self-bending of a pulsed laser beam. <i>Optics Letters</i> , 1990 , 15, 1431-3	3	19
278	Absorptive loss and band non-parabolicity as a physical origin of large nonlinearity in epsilon-near-zero materials. <i>Optical Materials Express</i> , 2020 , 10, 1545	2.6	19
277	Ultrafast Plasmonic Graphene Photodetector Based on the Channel Photothermoelectric Effect. <i>ACS Photonics</i> , 2020 , 7, 488-498	6.3	19
276	Limits of imaging with multilayer hyperbolic metamaterials. <i>Optics Express</i> , 2017 , 25, 13588-13601	3.3	18
275	Low kappa, narrow bandwidth Si(3)N(4) Bragg gratings. <i>Optics Express</i> , 2015 , 23, 30329-36	3.3	18
274	From anti-Stokes photoluminescence to resonant Raman scattering in GaN single crystals and GaN-based heterostructures. <i>Laser and Photonics Reviews</i> , 2012 , 6, 660-677	8.3	18
273	Impact of disorder on surface plasmons in two-dimensional arrays of metal nanoparticles. <i>Applied Physics Letters</i> , 2009 , 94, 221111	3.4	18
272	Human Life Signs Detection Using High-Sensitivity Pulsed Laser Vibrometer. <i>IEEE Sensors Journal</i> , 2007 , 7, 1370-1376	4	18
271	Microcavity effect on the electron-hole relative motion in semiconductor quantum wells. <i>Physical Review B</i> , 2003 , 68,	3.3	18
270	Two-photon-induced fluorescence of biological markers based on optical fibers. <i>Optics Letters</i> , 1995 , 20, 2054-6	3	18
269	Nonlinear response of the semiconductor quantum-confined structures near and below the middle of the band gap. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994 , 11, 624	1.7	18
268	Linear isolators using wavelength conversion. <i>Optica</i> , 2020 , 7, 209	8.6	18
267	Spoof plasmon waveguide enabled ultrathin room temperature THz GaN quantum cascade laser: a feasibility study. <i>Optics Express</i> , 2013 , 21, 28054-61	3.3	17
266	Demonstration of a mode-conversion cavity add-drop filter. <i>Optics Letters</i> , 2011 , 36, 2230-2	3	17
265	Evidence of hot electrons generated from an AlN/GaN high electron mobility transistor. <i>Applied Physics Letters</i> , 2008 , 92, 013513	3.4	17
264	Compact linearized optical FM discriminator. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 384-386	2.2	17
263	Generating Hot Carriers in Plasmonic Nanoparticles: When Quantization Does Matter?. <i>ACS Photonics</i> , 2020 , 7, 547-553	6.3	16

262	TiN@TiO ₂ Core-shell Nanoparticles as Plasmon-Enhanced Photosensitizers: The Role of Hot Electron Injection. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900376	8.3	16
261	Theory of optical emission enhancement by coupled metal nanoparticles: An analytical approach. <i>Applied Physics Letters</i> , 2011 , 98, 113116	3.4	16
260	Low-loss suspended quantum well waveguides. <i>Optics Express</i> , 2008 , 16, 2621-7	3.3	16
259	Isotope disorder of phonons in GaN and its beneficial effect on high power field effect transistors. <i>Applied Physics Letters</i> , 2008 , 93, 032110	3.4	16
258	Power dissipation in slow light devices: a comparative analysis. <i>Optics Letters</i> , 2007 , 32, 163-5	3	16
257	Excitonic enhancement of two-photon absorption in semiconductor quantum-well structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1995 , 12, 1222	1.7	16
256	Amplified spontaneous emission of phonons as a likely mechanism for density-dependent velocity saturation in GaN transistors. <i>Applied Physics Express</i> , 2016 , 9, 094101	2.4	16
255	Theory of hot electrons: general discussion. <i>Faraday Discussions</i> , 2019 , 214, 245-281	3.6	15
254	On the origin of nonlocal damping in plasmonic monomers and dimers. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1740005	1.1	15
253	Investigation of SOA nonlinearities on the amplification of DWDM channels with spectral efficiency up to 2.5 b/s/Hz. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 918-920	2.2	15
252	Reduced crosstalk semiconductor optical amplifiers based on Type-II quantum wells. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 278-280	2.2	15
251	Practical aspects of lasing without inversion in various media. <i>IEEE Journal of Quantum Electronics</i> , 1996 , 32, 1882-1896	2	15
250	Efficient up-conversion photoluminescence in all-inorganic lead halide perovskite nanocrystals. <i>Nano Research</i> , 2020 , 13, 1962-1969	10	15
249	Enhancement of light absorption in a quantum well by surface plasmon polariton. <i>Applied Physics Letters</i> , 2009 , 94, 191106	3.4	14
248	Comparative analysis of photoluminescence and Raman enhancement by metal nanoparticles. <i>Optics Letters</i> , 2012 , 37, 1583-5	3	14
247	Phonon-assisted ultraviolet anti-Stokes photoluminescence from GaN film grown on Si (111) substrate. <i>Applied Physics Letters</i> , 2008 , 93, 201107	3.4	14
246	Pulsed-laser vibrometer using photoelectromotive-force sensors. <i>Applied Physics Letters</i> , 2003 , 83, 1893-1895	3.1	14
245	Stimulated-emission-induced enhancement of the decay rate of longitudinal optical phonons in III-V semiconductors. <i>Applied Physics Letters</i> , 2002 , 80, 2901-2903	3.4	14

244	Permanent Dipole Contribution to the Linear Electro-optic Effect and Valence Band Dispersion in Zinc-Blende Semiconductors. <i>Physical Review Letters</i> , 1998 , 81, 3777-3780	7.4	14
243	Investigation of the photoluminescence-linewidth broadening in periodic multiple narrow asymmetric coupled quantum wells. <i>Physical Review B</i> , 1994 , 50, 4463-4469	3.3	14
242	Dynamics of hot electron generation in metallic nanostructures: general discussion. <i>Faraday Discussions</i> , 2019 , 214, 123-146	3.6	13
241	Plasmonic and new plasmonic materials: general discussion. <i>Faraday Discussions</i> , 2015 , 178, 123-49	3.6	13
240	Performance of nonlinear photonic crystal devices at high bit rates. <i>Optics Letters</i> , 2005 , 30, 643-5	3	13
239	Generation of tunable coherent far-infrared waves based on backward optical parametric oscillation in gallium selenide. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998 , 15, 1567 ¹⁻⁷	1.7	13
238	Cavity-enhanced and quasi-phase-matched optical frequency doublers in surface-emitting geometry. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1995 , 12, 1586	1.7	13
237	Observation of anomalously large blue shift of the heavy-hole photocurrent peak and optical bistability in narrow asymmetric coupled quantum wells. <i>Applied Physics Letters</i> , 1991 , 59, 1025-1027	3.4	13
236	Patients with urinary bladder paragangliomas: a compiled case series from a literature review for clinical management. <i>Urology</i> , 2015 , 85, e25-9	1.6	12
235	Third-order nonlinear plasmonic materials: Enhancement and limitations. <i>Physical Review A</i> , 2013 , 88,	2.6	12
234	Impact of surface collisions on enhancement and quenching of the luminescence near the metal nanoparticles. <i>Optics Express</i> , 2015 , 23, 30739-48	3.3	12
233	Photoluminescence emission in deep ultraviolet region from GaN/AlN asymmetric-coupled quantum wells. <i>Applied Physics Letters</i> , 2010 , 97, 021904	3.4	12
232	Optically pumped coherent mechanical oscillators: the laser rate equation theory and experimental verification. <i>New Journal of Physics</i> , 2012 , 14, 105022	2.9	12
231	A low-crosstalk semiconductor optical amplifier. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 392-394	2.2	12
230	Heterodyning far-infrared radiation using coherently controlled directional photocurrent in semiconductors. <i>Applied Physics Letters</i> , 1999 , 74, 4-6	3.4	12
229	Dispersion and anisotropy of optical rectification in zinc blende quantum wells. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996 , 13, 2129	1.7	12
228	Pseudorandom dynamics of frequency combs in free-running quantum cascade lasers. <i>Optical Engineering</i> , 2017 , 57, 1	1.1	12
227	Exceptional points in polaritonic cavities and subthreshold Fabry-Pérot lasers. <i>Optica</i> , 2020 , 7, 1015	8.6	12

226	High-Order Shift Current Induced Terahertz Emission from Inorganic Cesium Bromine Lead Perovskite Engendered by Two-Photon Absorption. <i>Advanced Functional Materials</i> , 2019 , 29, 1904694	15.6	11
225	Tunable Raman Selectivity via Randomization of a Rectangular Pattern of Nanodisks. <i>ACS Photonics</i> , 2014 , 1, 1006-1012	6.3	11
224	Multi-phonon-assisted absorption and emission in semiconductors and its potential for laser refrigeration. <i>Applied Physics Letters</i> , 2014 , 104, 221115	3.4	11
223	Practical aspects of optically coupled inversionless lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 1249	1.7	11
222	Stokes and anti-Stokes resonant Raman scatterings from biased GaN/AlN heterostructure. <i>Applied Physics Letters</i> , 2008 , 93, 051912	3.4	11
221	A dispersion management scheme for reducing SOA-induced crosstalk in WDM links. <i>Journal of Lightwave Technology</i> , 2004 , 22, 417-422	4	11
220	Nonlinear all-optical GaN/AlGaIn multi-quantum-well devices for 100Gb/s applications at 1.55 μ m. <i>Applied Physics Letters</i> , 2005 , 87, 201108	3.4	11
219	Analysis of all-semiconductor intracavity optical parametric oscillators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998 , 15, 1726	1.7	11
218	Two photon confined-to-continuum intersubband transitions in the semiconductor heterostructures. <i>Journal of Applied Physics</i> , 1993 , 73, 4367-4369	2.5	11
217	Electroabsorption in the type II superlattices. <i>Applied Physics Letters</i> , 1992 , 60, 1969-1971	3.4	11
216	Heterogeneously integrated ITO plasmonic Mach-Zehnder interferometric modulator on SOI. <i>Scientific Reports</i> , 2021 , 11, 1287	4.9	11
215	How Do the Purcell Factor, the Q-Factor, and the Beta Factor Affect the Laser Threshold?. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000250	8.3	11
214	Evidence for strong spatially localized band-filling effects at interface islands. <i>Applied Physics Letters</i> , 1997 , 71, 2581-2583	3.4	10
213	. <i>IEEE Journal of Quantum Electronics</i> , 1995 , 31, 1648-1658	2	10
212	Excitonic electroabsorption in type II superlattices. <i>Applied Physics Letters</i> , 1992 , 61, 1694-1696	3.4	10
211	Cathodoluminescence, gain, and stimulated emission in electron-beam-pumped ZnCdSe. <i>Journal of Applied Physics</i> , 1987 , 61, 1606-1609	2.5	10
210	Improvement of frequency-conversion efficiency in waveguides with rotationally twinned layers. <i>Optics Letters</i> , 1988 , 13, 603	3	10
209	Fast and Slow Nonlinearities in Epsilon-Near-Zero Materials. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000251	8.1	10

208	Plasmon-exciton coupling. <i>Nanophotonics</i> , 2019 , 8, 513-516	6.3	9
207	Temporal characteristics of quantum cascade laser frequency modulated combs in long wave infrared and THz regions. <i>Optics Express</i> , 2018 , 26, 14201-14212	3.3	9
206	Suspended photonic waveguide devices. <i>Applied Optics</i> , 2015 , 54, F164-73	0.2	9
205	Enhanced electro-optic phase shifts in suspended waveguides. <i>Optics Express</i> , 2010 , 18, 885-92	3.3	9
204	Suspended AlGaAs waveguides for tunable difference frequency generation in mid-infrared. <i>Optics Letters</i> , 2008 , 33, 2904-6	3	9
203	Quantum interference control of electrical currents and THz radiation in optically excited zinc-blende quantum wells. <i>Physical Review B</i> , 2006 , 73,	3.3	9
202	Add-drop filters based on mode-conversion cavities. <i>Optics Letters</i> , 2007 , 32, 1253-5	3	9
201	Second-Order Nonlinearities and Optical Rectification. <i>Semiconductors and Semimetals</i> , 1998 , 1-82	0.6	9
200	Optical frequency shifters based on cascaded second-order nonlinear processes. <i>Optics Letters</i> , 1996 , 21, 558-60	3	9
199	On-Chip Ultrafast Plasmonic Graphene Hot Electron Bolometric Photodetector. <i>ACS Omega</i> , 2020 , 5, 14711-14719	3.9	8
198	Miniature lasers: Is metal a friend or foe?. <i>Nature Materials</i> , 2018 , 17, 116-117	27	8
197	Mid-infrared light emission from a Fe ²⁺ :ZnSe polycrystal using quantum cascade laser pumping. <i>Applied Physics Letters</i> , 2014 , 105, 141108	3.4	8
196	Room temperature continuous wave quantum dot cascade laser emitting at 7.2 μm . <i>Optics Express</i> , 2017 , 25, 13807-13815	3.3	8
195	Anti-Stokes photoluminescence from n-type free-standing GaN at room temperature based on competition between phonon-assisted and two-photon absorption. <i>Semiconductor Science and Technology</i> , 2009 , 24, 055010	1.8	8
194	The case for using gap plasmon-polaritons in second-order optical nonlinear processes. <i>Optics Express</i> , 2012 , 20, 28717-23	3.3	8
193	Short Injector Quantum Cascade Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 591-600	2	8
192	Structural and electric-field-induced anisotropy in zinc-blende bulk semiconductors and quantum wells - the bonding orbital approach. <i>Semiconductor Science and Technology</i> , 1997 , 12, 1378-1387	1.8	8
191	Design of a GaN/AlGaIn intersubband Raman laser electrically tunable over the 3 μm atmospheric transmission window. <i>Journal of Applied Physics</i> , 2006 , 99, 033103	2.5	8

190	Design of quantum-dot lasers with an indirect bandgap short-period Superlattice for reducing the linewidth enhancement factor. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 2203-2205	2.2	8
189	Generation of mid-infrared radiation in a highly absorbing nonlinear medium. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001 , 18, 340	1.7	8
188	Self-phase modulation by means of resonant cascaded surface-emitting second-harmonic generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1995 , 12, 275	1.7	8
187	Direct Plasmonic Excitation of the Hybridized Surface States in Metal Nanoparticles. <i>ACS Photonics</i> , 2021 , 8, 2041-2049	6.3	8
186	Biased Nanoscale Contact as Active Element for Electrically Driven Plasmonic Nanoantenna. <i>ACS Photonics</i> , 2017 , 4, 1501-1505	6.3	7
185	Prospects and merits of metal-clad semiconductor lasers from nearly UV to far IR. <i>Optics Express</i> , 2015 , 23, 4186-94	3.3	7
184	Current gain in sub-10 nm base GaN tunneling hot electron transistors with AlN emitter barrier. <i>Applied Physics Letters</i> , 2015 , 106, 032101	3.4	7
183	Response to [Comment on [Graphene] rather ordinary nonlinear optical material [Appl. Phys. Lett. 111, 106101 (2017)]. <i>Applied Physics Letters</i> , 2017 , 111, 106102	3.4	7
182	Linearized Bragg grating assisted electro-optic modulator. <i>Optics Letters</i> , 2014 , 39, 6946-9	3	7
181	Optimization of the nanolens consisting of coupled metal nanoparticles: An analytical approach. <i>Applied Physics Letters</i> , 2011 , 98, 153115	3.4	7
180	Heterodyne detection using spectral line pairing for spectral phase encoding optical code division multiple access and dynamic dispersion compensation. <i>Optics Express</i> , 2012 , 20, 17600-9	3.3	7
179	Passive mode locking of optical parametric oscillators: an efficient technique for generating sub-picosecond pulses. <i>Optics Express</i> , 2008 , 16, 4804-18	3.3	7
178	High-precision measurement of optical frequency differences between Q-switched laser pulses using photo-electromotive-force sensors. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 177	1.7	7
177	Investigation of the temperature dependent recombination processes in periodic four-narrow-asymmetric-coupled-quantum-well structures. <i>Journal of Luminescence</i> , 1995 , 63, 55-61	3.8	7
176	Engineering of the nonradiative transition rates in modulation-doped multiple-quantum wells. <i>IEEE Journal of Quantum Electronics</i> , 1996 , 32, 1155-1160	2	7
175	Optical phase conjugation and waveguide coupling by cascading transverse second-harmonic and difference-frequency generation in a vertical cavity. <i>Optical and Quantum Electronics</i> , 1996 , 28, 1617-1627 ⁴	2.4	7
174	Threshold in electron-beam end-pumped II-VI lasers. <i>Journal of Applied Physics</i> , 1987 , 62, 2633-2639	2.5	7
173	Time resolved long-wave infrared laser-induced breakdown spectroscopy of inorganic energetic materials by a rapid mercury-cadmium-telluride linear array detection system. <i>Applied Optics</i> , 2016 , 55, 9166-9172	0.2	7

172	Landau Damping—the Ultimate Limit of Field Confinement and Enhancement in Plasmonic Structures. <i>Springer Series in Solid-state Sciences</i> , 2017 , 303-322	0.4	6
171	Study of Spatio-Temporal Character of Frequency Combs Generated by Quantum Cascade Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-9	3.8	6
170	Mode division multiplexed (MDM) waveguide link scheme with cascaded Y-junctions. <i>Optics Communications</i> , 2013 , 309, 85-89	2	6
169	Eigen mode approach to the sub-wavelength imaging with surface plasmon polaritons. <i>Applied Physics Letters</i> , 2011 , 98, 263102	3.4	6
168	Transport and gain in a quantum cascade laser: model and equivalent circuit. <i>Optical Engineering</i> , 2010 , 49, 111110	1.1	6
167	Reduced threshold current of a quantum dot laser in a short period superlattice of indirect-band gap. <i>Applied Physics Letters</i> , 2004 , 84, 3861-3863	3.4	6
166	Reducing adjacent channel interference in RZ WDM systems via dispersion interleaving. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 915-917	2.2	6
165	Heterodyning scheme employing quantum interference. <i>Applied Physics Letters</i> , 1998 , 73, 13-15	3.4	6
164	. <i>IEEE Journal of Quantum Electronics</i> , 1995 , 31, 219-227	2	6
163	Novel quantum box intersubband lasing mechanism based on image charges. <i>Applied Physics Letters</i> , 1996 , 69, 1038-1040	3.4	6
162	Nonradiative recombination and saturation of traps in multiple intrinsic quantum wells. <i>Journal of Applied Physics</i> , 1994 , 75, 1727-1732	2.5	6
161	Influence of the Dispersion of the Size of the Si Nanocrystals on their Emission Spectra. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 358, 193		6
160	Single longitudinal mode operation of the electron-beam-pumped semiconductor laser. <i>IEEE Journal of Quantum Electronics</i> , 1986 , 22, 1158-1161	2	6
159	Commercially Packaged Optical True-Time-Delay Devices With Record Delays of Wide Bandwidth Signals 2014 ,		6
158	Current gain above 10 in sub-10 nm base III-Nitride tunneling hot electron transistors with GaN/AlN emitter. <i>Applied Physics Letters</i> , 2016 , 108, 192101	3.4	6
157	Microelectromechanical control of the state of quantum cascade laser frequency combs. <i>Applied Physics Letters</i> , 2019 , 115, 021105	3.4	5
156	SERS scaling rules. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 647-650	2.6	5
155	Super-resolution imaging via spatiotemporal frequency shifting and coherent detection. <i>Optics Express</i> , 2011 , 19, 22350-7	3.3	5

154	Linearized Ring-Assisted Electrooptical Modulator for Coherent Optical OFDM Links. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 1621-1623	2.2	5
153	Effects of two-photon absorption in saturable Bragg reflectors used in femtosecond solid state lasers. <i>Optics Express</i> , 1997 , 1, 68-72	3.3	5
152	Observation of backward sum-frequency generation in periodically-poled lithium niobate. <i>Optics Communications</i> , 1998 , 155, 323-326	2	5
151	Stimulated polariton scattering in intersubband lasers: Role of motional narrowing. <i>Physical Review B</i> , 2006 , 74,	3.3	5
150	Band gap engineering for laser cooling of semiconductors 2006 ,		5
149	Cascaded Raman self-frequency shifted soliton generation in an Er/Yb-doped fiber amplifier. <i>Applied Physics Letters</i> , 2002 , 81, 2695-2697	3.4	5
148	Modeling of Q-switched semiconductor lasers based on type-II quantum wells: Increasing the pulse energy and peak power. <i>Applied Physics Letters</i> , 2002 , 80, 2631-2633	3.4	5
147	Displacement measurement that uses transient photoelectromotive force effects in CdTe:V with frequency-modulated lasers. <i>Applied Optics</i> , 2000 , 39, 3138-42	1.7	5
146	Phonon-pumped SiGe-Si interminiband terahertz laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2001 , 7, 376-380	3.8	5
145	Two-photon transitions between bound-to-continuum states in AlGaAs/GaAs multiple quantum well. <i>Applied Physics Letters</i> , 1998 , 73, 3638-3640	3.4	5
144	Resonant tunneling field-effect transistor based on wave function shape modulation in quantum wires. <i>Journal of Applied Physics</i> , 1999 , 85, 3218-3221	2.5	5
143	Non-reciprocal propagation versus non-reciprocal control. <i>Nature Photonics</i> , 2020 , 14, 711-711	33.9	5
142	Pliable polaritons: Wannier exciton-plasmon coupling in metal-semiconductor structures. <i>Nanophotonics</i> , 2018 , 8, 629-639	6.3	5
141	New materials for hot electron generation: general discussion. <i>Faraday Discussions</i> , 2019 , 214, 365-386	3.6	4
140	Enhancement of Two-Photon Absorption in Quantum Wells for Extremely Nondegenerate Photon Pairs. <i>IEEE Journal of Quantum Electronics</i> , 2016 , 52, 1-14	2	4
139	Attojoule Modulators for Photonic Neuromorphic Computing 2018 ,		4
138	Investigation of hot electrons and hot phonons generated within an AlN/GaN high electron mobility transistor. <i>Laser Physics</i> , 2009 , 19, 745-751	1.2	4
137	Transversely pumped counterpropagating optical parametric amplification and difference-frequency generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 2161	1.7	4

136	Directional couplers based on cascaded second-order nonlinearities in surface-emitting geometry. <i>Optics Communications</i> , 1997 , 139, 63-68	2	4
135	Recent Advances in Coherent Optical OFDM High-Speed Transmission 2008 ,		4
134	Phase and Polarization Diversity for Minimum MAI in OCDMA Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 1386-1395	3.8	4
133	A model for optimization of the performance of frequency-Modulated DFB semiconductor laser. <i>IEEE Journal of Quantum Electronics</i> , 2005 , 41, 473-482	2	4
132	Intersubband spin pump. <i>Applied Physics Letters</i> , 2006 , 88, 123511	3.4	4
131	Reductions of threshold for a mid-infrared optical parametric oscillator by an intracavity optical amplifier. <i>Optics Letters</i> , 2003 , 28, 552-4	3	4
130	. <i>Journal of Lightwave Technology</i> , 2001 , 19, 666-672	4	4
129	Observation of an anomalously large blueshift of apparent donor-acceptor pair transition peak in compensation-doped quantum wells. <i>Applied Physics Letters</i> , 1998 , 72, 534-536	3.4	4
128	Displacement measurement and surface profiling using semi-insulating photoconductive semiconductors and linearly frequency-ramped lasers. <i>Applied Physics Letters</i> , 1999 , 75, 1374-1376	3.4	4
127	Balance equations and threshold conditions for the inversionless laser in an autoionizing system. <i>Physical Review A</i> , 1996 , 54, 2451-2454	2.6	4
126	Saturation of near-resonant $\chi^{(3)}$ ($0; 2\omega, -\omega, -\omega$) in quantum-confined semiconductors. <i>Physical Review B</i> , 1993 , 48, 1607-1611	3.3	4
125	Amplified spontaneous emission in electron-beam-pumped surface-emitting semiconductor lasers. <i>Optical and Quantum Electronics</i> , 1993 , 25, 451-465	2.4	4
124	Demonstration of strong saturation of traps in multiple, narrow, slightly asymmetric coupled quantum wells. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1993 , 10, 108	1.7	4
123	Theoretical and experimental investigation of amplified spontaneous emission in electron-beam-pumped semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , 1987 , 23, 194-204	2	4
122	Large Tunable Delay of an RF Photonic Signal with 130 GHz Bandwidth Using Silicon Microresonators 2010 ,		4
121	Radiation-balanced tandem semiconductor/Yb ³⁺ :YLF lasers: feasibility study. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 1886	1.7	4
120	Role of surface passivation in integrated sub-bandgap silicon photodetection. <i>Optics Letters</i> , 2020 , 45, 2128-2131	3	4
119	Analytical expression for the width of quantum cascade laser frequency comb. <i>Applied Physics Letters</i> , 2020 , 117, 161104	3.4	4

118	Emulating exceptional-point encirclements using imperfect (leaky) photonic components: asymmetric mode-switching and omni-polarizer action. <i>Optica</i> , 2021 , 8, 563	8.6	4
117	Linewidth of the laser optical frequency comb with arbitrary temporal profile. <i>Applied Physics Letters</i> , 2018 , 113, 131104	3.4	4
116	Expanding the Photonic Palette: Exploring High Index Materials. <i>ACS Photonics</i> , 2022 , 9, 743-751	6.3	4
115	Bandgap engineering and prospects for radiation-balanced vertical-external-cavity surface-emitting semiconductor lasers. <i>Optics Express</i> , 2018 , 26, 12985-13000	3.3	3
114	THz field detection in graphene using deep neural networks. <i>Applied Physics Letters</i> , 2019 , 115, 161106	3.4	3
113	Miniature, Linearized silicon photonics modulators for phased array systems 2013 ,		3
112	Elastic scattering by hot electrons and apparent lifetime of longitudinal optical phonons in gallium nitride. <i>Applied Physics Letters</i> , 2015 , 107, 262101	3.4	3
111	Electronic states, pseudo-spin, and transport in the zinc-blende quantum wells and wires with vanishing band gap. <i>Applied Physics Letters</i> , 2014 , 104, 132107	3.4	3
110	Measurement of Minority Carrier Lifetime in n-Type MBE HgCdTe on Variable Substrates. <i>Journal of Electronic Materials</i> , 2012 , 41, 2785-2789	1.9	3
109	PLASMONIC ENHANCEMENT OF OPTICAL PROPERTIES BY ISOLATED AND COUPLED METAL NANOPARTICLES. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2011 , 1-44	0.1	3
108	Stress-induced \mathbb{Z}_2 in silicon \mathbb{Z}_2 Comparison between theoretical and experimental values 2009 ,		3
107	Exchange interactions in strained quantum dot arrays and possibility of engineering their magnetic properties. <i>Superlattices and Microstructures</i> , 1998 , 24, 133-142	2.8	3
106	High Spectral Efficiency Phase Diversity Coherent Optical CDMA with low MAI 2007 ,		3
105	Analysis of the performance of the quantum wire resonant tunneling field-effect transistor. <i>Superlattices and Microstructures</i> , 2000 , 27, 245-254	2.8	3
104	Spatially localized band-gap renormalization and band-filling effects in three growth-interrupted multiple asymmetric coupled narrow quantum wells. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996 , 13, 536	1.7	3
103	Feasibility of phonon-assisted electronic devices. <i>Journal of Applied Physics</i> , 1993 , 74, 2562-2564	2.5	3
102	An ITO-graphene heterojunction integrated absorption modulator on Si-photonics for neuromorphic nonlinear activation. <i>APL Photonics</i> ,	5.2	3
101	. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	3

100	Large-Area Arrays of Quasi-3D Au Nanostructures for Polarization-Selective Mid-Infrared Metasurfaces. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7029-7039	5.6	3
99	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-11	3.8	3
98	Hot electron photoemission in metal-semiconductor structures aided by resonance tunneling. <i>Applied Physics Letters</i> , 2021 , 118, 181104	3.4	3
97	Time, space, and spectral multiplexing for radiation balanced operation of semiconductor lasers. <i>Optics Express</i> , 2018 , 26, 24124-24134	3.3	3
96	Sub-wavelength field enhancement in the mid-IR: photonics versus plasmonics versus phononics. <i>Optics Letters</i> , 2018 , 43, 4465-4468	3	3
95	Applications in catalysis, photochemistry, and photodetection: general discussion. <i>Faraday Discussions</i> , 2019 , 214, 479-499	3.6	2
94	High-Power, High-Linearity, Heterogeneously Integrated III-V on Si MZI Modulators for RF Photonics Systems. <i>IEEE Photonics Journal</i> , 2019 , 1-1	1.8	2
93	Surface plasmon enhanced spectroscopies and time and space resolved methods: general discussion. <i>Faraday Discussions</i> , 2015 , 178, 253-79	3.6	2
92	Solvent Responsive Self-Folding of 3D Photosensitive Graphene Architectures. <i>Advanced Intelligent Systems</i> , 2020 , 2000195	6	2
91	Nanophotonic waveguides for chip-scale raman spectroscopy: Theoretical considerations 2016 ,		2
90	Pockels effect in short period silicon germanium superlattices. <i>Optics Communications</i> , 2010 , 283, 432-434		2
89	MIRRORLESS OPTICAL PARAMETRIC OSCILLATORS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 1996 , 05, 223-246	0.8	2
88	Pressure and strain sensors based on intervalley electron transfer in AlGaAs. <i>Applied Physics Letters</i> , 1997 , 70, 3437-3439	3.4	2
87	Engineering of the nonradiative transition rates in nonpolar modulation-doped multiple quantum wells. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 1043	1.7	2
86	Observation of strong many-body effects in thin InN films grown on GaN buffer layers 2006 ,		2
85	Limits of luminescence efficiency enhancement by surface plasmon polaritons 2007 ,		2
84	MOCVD growth and regrowth of quantum cascade lasers 2007 ,		2
83	Analysis of phase locking in diffraction-coupled arrays of semiconductor lasers with gain/index coupling. <i>IEEE Journal of Quantum Electronics</i> , 2005 , 41, 1065-1074	2	2

82	Optical phonons in a periodically inverted polar superlattice. <i>Physical Review B</i> , 2004 , 70,	3.3	2
81	Demonstration of high-spectral-efficiency 40-Gb/s optical communications system using 4 bits per symbol coding 2004 , 5440, 371		2
80	Suppression of spurious intensity modulation in frequency-modulated semiconductor lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003 , 9, 1294-1299	3.8	2
79	Acoustic cavity polariton in multilayer piezoelectric structures. <i>Applied Physics Letters</i> , 2002 , 81, 4742-4744	3.4	2
78	Khurgin and voisin reply:. <i>Physical Review Letters</i> , 2000 , 84, 4514	7.4	2
77	Cascaded waveguide phase-matching arrangement. <i>Optics Letters</i> , 2000 , 25, 496-8	3	2
76	Displacement measurement with adjustable range by use of the photoelectromotive force effect and a frequency-modulated laser diode. <i>Optics Letters</i> , 2001 , 26, 1170-2	3	2
75	Engineering of the magnetic properties of strained quantum dots. <i>Applied Physics Letters</i> , 1998 , 73, 3944-3946	5.1	2
74	Optically-induced Anderson delocalization transition in disordered systems. <i>Optics Communications</i> , 1995 , 115, 466-470	2	2
73	Dynamic Wannier-Stark effect in semiconductor superlattices. <i>Applied Physics Letters</i> , 1994 , 65, 3275-3277	3.4	2
72	Quantum-confined piezoelectric effect. <i>Journal of Applied Physics</i> , 1989 , 66, 994-996	2.5	2
71	Landau Damping in Hybrid Plasmonics.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 997-1001	6.4	2
70	Hot electron generation via internal surface photo-effect in structures with quantum well 2020 ,		2
69	Integrated Coherent Tunable Laser (ICTL) with 118 nm Tuning Range and sub-100 Hz Lorentzian Linewidth 2021 ,		2
68	Electrical control of all-optical graphene switches.. <i>Optics Express</i> , 2022 , 30, 1950-1966	3.3	2
67	All-optical linearized Mach-Zehnder modulator. <i>Optics Express</i> , 2021 , 29, 37302-37313	3.3	2
66	Bandwidth Limitation in Slow Light Schemes. <i>Optical Science and Engineering</i> , 2008 ,		2
65	Electrically-driven optical antennas enabled by mesoscopic contacts 2017 ,		1

64	Common Emitter Current and Voltage Gain in III-Nitride Tunneling Hot Electron Transistors. <i>IEEE Electron Device Letters</i> , 2015 , 36, 436-438	4.4	1
63	Nonlocality in Plasmonics. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2017 , 67-113	0.1	1
62	High SFDR Super-Ring Microresonator based True-Time-Delay (TTD) 2014 ,		1
61	Near-infrared induced optical quenching effects on mid-infrared quantum cascade lasers. <i>Applied Physics Letters</i> , 2014 , 104, 251102	3.4	1
60	Experimental demonstration of coherent OCDMA using heterodyne detection. <i>Optics Letters</i> , 2013 , 38, 2351-3	3	1
59	Experimental Demonstration of Coherent OCDMA using Spectral Line Pairing and Heterodyne Detection 2013 ,		1
58	Temperature Dependence of the Transparency Current Density in Mid-Infrared Quantum Cascade Lasers 2011 ,		1
57	Periodically poled silicon 2010 ,		1
56	Ultralow Γ values in suspended quantum well waveguides. <i>Applied Physics Letters</i> , 2012 , 101, 241111	3.4	1
55	Super-resolution spatial frequency differentiation of nanoscale particles with a vibrating nanograting. <i>Applied Physics Letters</i> , 2012 , 100, 011101	3.4	1
54	Spatial, temporal, and spectral effects and conversion efficiencies in second-harmonic generation from mode-locked lasers in surface-emitting geometry. <i>Journal of Applied Physics</i> , 1997 , 82, 4732-4739	2.5	1
53	Design of GeSiSn/Ge quantum cascade laser 2008 ,		1
52	Intersubband Absorption Loss in High-Performance Mid-Infrared Quantum Cascade Lasers 2009 ,		1
51	High sensitivity pulsed laser vibrometer for surface vibration monitoring 2006 ,		1
50	Biological Life Signs Detection Using High Sensitivity Pulsed Laser Vibrometer 2007 ,		1
49	Backward Second-harmonic Generation in Periodically-poled LiNbO ₃ . <i>Optics and Photonics News</i> , 1998 , 9, 29	1.9	1
48	Intersubband lasers based on the subband dispersion of inverted mass. <i>Optics Express</i> , 1998 , 2, 143-50	3.3	1
47	Artificial ferroelectricity in coupled strained quantum dots. <i>Applied Physics Letters</i> , 1998 , 73, 3102-3104	3.4	1

46	Damage mechanisms for KTiOPO 4 crystals under irradiation of a cw argon laser 1999 , 3610, 9		1
45	Feasibility of the artificial ultrahigh mobility materials. <i>Applied Physics Letters</i> , 1994 , 64, 208-210	3.4	1
44	Frequency doubling and phase matching with II-VI microcrystals. <i>Journal of Crystal Growth</i> , 1990 , 101, 748-753	1.6	1
43	. <i>IEEE Journal of Quantum Electronics</i> , 1990 , 26, 876-882	2	1
42	Strong excitonic nonlinearity in a P-I-N photodiode incorporating narrow asymmetric coupled quantum wells. <i>Optics Letters</i> , 1991 , 16, 949-51	3	1
41	Room temperature plasmonic graphene hot electron bolometric photodetectors: A comparative analysis. <i>Journal of Applied Physics</i> , 2022 , 131, 023105	2.5	1
40	Limitations to the Power Output and Efficiency of Mid-Infrared Quantum Cascade Lasers Imposed by Transport 2010 ,		1
39	What are the merits of hyperbolic metamaterials? 2016 ,		1
38	Impact of Landau Damping on Field Enhancement in Plasmonic Dimers 2017 ,		1
37	On-chip ultrafast plasmonic graphene photodetectors 2020 ,		1
36	Temporal dynamics of strongly coupled epsilon near-zero plasmonic systems. <i>Applied Physics Letters</i> , 2021 , 119, 221101	3.4	1
35	. <i>IEEE Photonics Journal</i> , 2021 , 13, 1-8	1.8	1
34	Wide Bandwidth, Nonmagnetic Linear Optical Isolators based on Frequency Conversion 2019 ,		1
33	Eigen mode Approach to the Sub-wavelength Imaging with Surface Plasmon Polaritons 2011 ,		1
32	Super-Ring Resonators: Taking Advantage of Resonance Variability 2012 ,		1
31	Ultra-low Noise Widely-Tunable Semiconductor Lasers Fully Integrated on Silicon 2019 ,		1
30	Spin-Polarized Electrons Impact on Terahertz Emission by High-Order Shift Current in CsPbBr ₃ . <i>Advanced Optical Materials</i> , 2100822	8.1	1
29	Performance of Single and Coupled Microresonators in Photonic Switching Schemes. <i>Springer Series in Optical Sciences</i> , 2010 , 227-251	0.5	1

28	Charge and field driven integrated optical modulators: comparative analysis: opinion. <i>Optical Materials Express</i> , 2022 , 12, 1784	2.6	1
27	Switching of superradiance in semiconductor superlattices. <i>Applied Physics Letters</i> , 1995 , 66, 3316-3318	3.4	0
26	Longitudinal Coulomb attraction in coupled quantum wells. <i>Physical Review B</i> , 1992 , 46, 12535-12541	3.3	0
25	Deterministic modeling of hybrid nonlinear effects in epsilon-near-zero thin films. <i>Applied Physics Letters</i> , 2022 , 120, 031103	3.4	0
24	III-Nitride Tunneling Hot Electron Transfer Amplifier (THETA) 2020 , 109-157		0
23	High-Performance All-Optical Modulator Based on Graphene-hBN Heterostructures. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022 , 1-1	3.8	0
22	Feasibility of resonant Raman cooling and radiation balanced lasing in semiconductors. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022 , 39, 338	1.7	0
21	Feasibility of spoof surface plasmon waveguide enabled ultrathin room temperature THz GaN quantum cascade laser. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1661, 13		
20	Robotic-assisted laparoscopic surgery in pediatric urology: an update. <i>Turk Uroloji Dergisi</i> , 2012 , 38, 102-111		
19	Analytical Model of Raman Enhancement by Metal Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1404, 102		
18	Bit Rate Limitations in Single and Coupled Microresonators. <i>Optical Science and Engineering</i> , 2009 , 507-528		
17	Autocorrelation of mode-locked laser pulses based on the synchronous drift of photogenerated carriers. <i>Applied Physics Letters</i> , 1997 , 71, 1765-1767	3.4	
16	Single-Fiber Two-Photon Fluoroprobe for Biological Markers. <i>Journal of Nonlinear Optical Physics and Materials</i> , 1997 , 06, 305-311	0.8	
15	Passively mode-locked slow pump optical parametric oscillators. <i>Optics Letters</i> , 2008 , 33, 153-5	3	
14	Slow Light: Fundamentals & Applications 2006 , CThD3		
13	Mid-IR optical limiter based on type-II quantum wells. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 1490-1499		
12	A comparative study of InAs quantum dot lasers with barriers of direct and indirect band gaps. <i>Microelectronics Journal</i> , 2005 , 36, 183-185	1.8	
11	Spatially-Localized Band-Filling Effects and Band-Gap Renormalization in Growth-Interrupted Quantum Wells. <i>Journal of Nonlinear Optical Physics and Materials</i> , 1998 , 07, 73-103	0.8	

- 10 Surface-emitting second harmonic generation from short laser pulses **1998**, 3277, 226
- 9 Carrier filtering in type II superlattices. *Solid State Communications*, **1993**, 85, 535-538 1.6
- 8 Active antireflection coating electrooptic modulator. *Optical and Quantum Electronics*, **1993**, 25, S917-S923
- 7 Microwave-developed three-dimensional real-time holography. *Optics Letters*, **1993**, 18, 1855-7 3
- 6 Response to Comment on Optical bistability in self-electro-optic effect devices with asymmetric quantum wells and on Novel configuration of self-electro-optic effect device based on asymmetric quantum wells [Appl. Phys. Lett. 57, 1363 (1990)]. *Applied Physics Letters*, **1990**, 57, 1364-1364 3-4
- 5 Optical generation of picosecond electrical pulses in asymmetric quantum well structures placed in a transverse magnetic field. *Applied Physics Letters*, **1990**, 56, 2490-2492 3-4
- 4 Mitigating offset frequency drift in frequency combs using a customized power law dispersion. *Optics Letters*, **2020**, 45, 3525-3528 3
- 3 THz Intersubband Lasers Using the Inverted Mass Scheme **1998**, 167-172
- 2 Heterodyning Scheme Employing Quantum Interference **1999**, 203-212
- 1 Reflections on Mark Stockman and his contributions to nano-optics: guest editorial. *Optical Materials Express*, **2021**, 11, 1575 2.6