

# Jacob B Khurgin

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7528273/jacob-b-khurgin-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

423  
papers

9,519  
citations

48  
h-index

77  
g-index

587  
ext. papers

11,667  
ext. citations

4.2  
avg. IF

7.14  
L-index

#	Paper	IF	Citations
423	Deterministic modeling of hybrid nonlinear effects in epsilon-near-zero thin films. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 031103	3.4	0
422	Room temperature plasmonic graphene hot electron bolometric photodetectors: A comparative analysis. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 023105	2.5	1
421	Landau Damping in Hybrid Plasmonics.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 997-1001	6.4	2
420	Electrical control of all-optical graphene switches.. <i>Optics Express</i> , <b>2022</b> , 30, 1950-1966	3.3	2
419	High-Performance All-Optical Modulator Based on Graphene-hBN Heterostructures. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2022</b> , 1-1	3.8	0
418	Expanding the Photonic Palette: Exploring High Index Materials. <i>ACS Photonics</i> , <b>2022</b> , 9, 743-751	6.3	4
417	Charge and field driven integrated optical modulators: comparative analysis: opinion. <i>Optical Materials Express</i> , <b>2022</b> , 12, 1784	2.6	1
416	Feasibility of resonant Raman cooling and radiation balanced lasing in semiconductors. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2022</b> , 39, 338	1.7	0
415	Temporal dynamics of strongly coupled epsilon near-zero plasmonic systems. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 221101	3.4	1
414	. <i>IEEE Photonics Journal</i> , <b>2021</b> , 13, 1-8	1.8	1
413	. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 1-1	4	3
412	Integrated Coherent Tunable Laser (ICTL) with 118 nm Tuning Range and sub-100 Hz Lorentzian Linewidth <b>2021</b> ,		2
411	All-optical linearized Mach-Zehnder modulator. <i>Optics Express</i> , <b>2021</b> , 29, 37302-37313	3.3	2
410	Fast and Slow Nonlinearities in Epsilon-Near-Zero Materials. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2000891	3.1	10
409	Emulating exceptional-point encirclements using imperfect (leaky) photonic components: asymmetric mode-switching and omni-polarizer action. <i>Optica</i> , <b>2021</b> , 8, 563	8.6	4
408	Reflections on Mark Stockman and his contributions to nano-optics: guest editorial. <i>Optical Materials Express</i> , <b>2021</b> , 11, 1575	2.6	
407	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2021</b> , 27, 1-11	3.8	3

406	Hot electron photoemission in metal-semiconductor structures aided by resonance tunneling. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 181104	3.4	3
405	Direct Plasmonic Excitation of the Hybridized Surface States in Metal Nanoparticles. <i>ACS Photonics</i> , <b>2021</b> , 8, 2041-2049	6.3	8
404	Heterogeneously integrated ITO plasmonic Mach-Zehnder interferometric modulator on SOI. <i>Scientific Reports</i> , <b>2021</b> , 11, 1287	4.9	11
403	How Do the Purcell Factor, the Q-Factor, and the Beta Factor Affect the Laser Threshold?. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2000250	8.3	11
402	Solvent Responsive Self-Folding of 3D Photosensitive Graphene Architectures. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2000195	6	2
401	Nonlinear optical properties of halide perovskites and their applications. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 041313	17.3	34
400	On-Chip Ultrafast Plasmonic Graphene Hot Electron Bolometric Photodetector. <i>ACS Omega</i> , <b>2020</b> , 5, 14711-14719	3.9	8
399	Generating Hot Carriers in Plasmonic Nanoparticles: When Quantization Does Matter?. <i>ACS Photonics</i> , <b>2020</b> , 7, 547-553	6.3	16
398	TiN@TiO <sub>2</sub> Core-Shell Nanoparticles as Plasmon-Enhanced Photosensitizers: The Role of Hot Electron Injection. <i>Laser and Photonics Reviews</i> , <b>2020</b> , 14, 1900376	8.3	16
397	Hot electron generation via internal surface photo-effect in structures with quantum well <b>2020</b> ,		2
396	Radiation-balanced tandem semiconductor/Yb <sup>3+</sup> :YLF lasers: feasibility study. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2020</b> , 37, 1886	1.7	4
395	Role of surface passivation in integrated sub-bandgap silicon photodetection. <i>Optics Letters</i> , <b>2020</b> , 45, 2128-2131	3	4
394	Absorptive loss and band non-parabolicity as a physical origin of large nonlinearity in epsilon-near-zero materials. <i>Optical Materials Express</i> , <b>2020</b> , 10, 1545	2.6	19
393	Adiabatic frequency shifting in epsilon-near-zero materials: the role of group velocity. <i>Optica</i> , <b>2020</b> , 7, 226	8.6	32
392	Ultrafast quantum photonics enabled by coupling plasmonic nanocavities to strongly radiative antennas. <i>Optica</i> , <b>2020</b> , 7, 463	8.6	31
391	Linear isolators using wavelength conversion. <i>Optica</i> , <b>2020</b> , 7, 209	8.6	18
390	Exceptional points in polaritonic cavities and subthreshold Fabry-Pérot lasers. <i>Optica</i> , <b>2020</b> , 7, 1015	8.6	12
389	On-chip ultrafast plasmonic graphene photodetectors <b>2020</b> ,		1

388	Mitigating offset frequency drift in frequency combs using a customized power law dispersion. <i>Optics Letters</i> , <b>2020</b> , 45, 3525-3528	3	
387	Efficient up-conversion photoluminescence in all-inorganic lead halide perovskite nanocrystals. <i>Nano Research</i> , <b>2020</b> , 13, 1962-1969	10	15
386	Fundamental limits of hot carrier injection from metal in nanoplasmonics. <i>Nanophotonics</i> , <b>2020</b> , 9, 453-463	4.1	45
385	Ultrafast Plasmonic Graphene Photodetector Based on the Channel Photothermoelectric Effect. <i>ACS Photonics</i> , <b>2020</b> , 7, 488-498	6.3	19
384	Large-Area Arrays of Quasi-3D Au Nanostructures for Polarization-Selective Mid-Infrared Metasurfaces. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 7029-7039	5.6	3
383	Non-reciprocal propagation versus non-reciprocal control. <i>Nature Photonics</i> , <b>2020</b> , 14, 711-711	33.9	5
382	Analytical expression for the width of quantum cascade laser frequency comb. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 161104	3.4	4
381	III-Nitride Tunneling Hot Electron Transfer Amplifier (THETA) <b>2020</b> , 109-157		0
380	ITO-based electro-absorption modulator for photonic neural activation function. <i>APL Materials</i> , <b>2019</b> , 7, 081112	5.7	34
379	Hot carriers generated by plasmons: where are they generated and where do they go from there?. <i>Faraday Discussions</i> , <b>2019</b> , 214, 35-58	3.6	63
378	Self-organized nonlinear gratings for ultrafast nanophotonics. <i>Nature Photonics</i> , <b>2019</b> , 13, 494-499	33.9	27
377	Applications in catalysis, photochemistry, and photodetection: general discussion. <i>Faraday Discussions</i> , <b>2019</b> , 214, 479-499	3.6	2
376	Theory of hot electrons: general discussion. <i>Faraday Discussions</i> , <b>2019</b> , 214, 245-281	3.6	15
375	Dynamics of hot electron generation in metallic nanostructures: general discussion. <i>Faraday Discussions</i> , <b>2019</b> , 214, 123-146	3.6	13
374	New materials for hot electron generation: general discussion. <i>Faraday Discussions</i> , <b>2019</b> , 214, 365-386	3.6	4
373	Plasmon-exciton coupling. <i>Nanophotonics</i> , <b>2019</b> , 8, 513-516	6.3	9
372	High-Power, High-Linearity, Heterogeneously Integrated III-V on Si MZI Modulators for RF Photonics Systems. <i>IEEE Photonics Journal</i> , <b>2019</b> , 1-1	1.8	2
371	Study of Spatio-Temporal Character of Frequency Combs Generated by Quantum Cascade Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2019</b> , 25, 1-9	3.8	6

370	High-Order Shift Current Induced Terahertz Emission from Inorganic Cesium Bromine Lead Perovskite Engendered by Two-Photon Absorption. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904694	15.6	11
369	Guiding of visible photons at the $\lambda/8$ thickness limit. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 844-850	28.7	26
368	Microelectromechanical control of the state of quantum cascade laser frequency combs. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 021105	3.4	5
367	THz field detection in graphene using deep neural networks. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 161106	3.4	3
366	Reversible MoS Origami with Spatially Resolved and Reconfigurable Photosensitivity. <i>Nano Letters</i> , <b>2019</b> , 19, 7941-7949	11.5	33
365	Nonlinear epsilon-near-zero materials explained: opinion. <i>Optical Materials Express</i> , <b>2019</b> , 9, 2793	2.6	35
364	Wide Bandwidth, Nonmagnetic Linear Optical Isolators based on Frequency Conversion <b>2019</b> ,		1
363	Ultra-low Noise Widely-Tunable Semiconductor Lasers Fully Integrated on Silicon <b>2019</b> ,		1
362	Excitonic Emission of Monolayer Semiconductors Near-Field Coupled to High-Q Microresonators. <i>Nano Letters</i> , <b>2018</b> , 18, 3138-3146	11.5	32
361	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2018</b> , 24, 1-9	3.8	32
360	Plasmonic Hot Carriers-Controlled Second Harmonic Generation in WSe Bilayers. <i>Nano Letters</i> , <b>2018</b> , 18, 1686-1692	11.5	44
359	High-Performance Single-Crystalline Perovskite Thin-Film Photodetector. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704333	24	166
358	Miniature lasers: Is metal a friend or foe?. <i>Nature Materials</i> , <b>2018</b> , 17, 116-117	27	8
357	Comparative Analysis of Metals and Alternative Infrared Plasmonic Materials. <i>ACS Photonics</i> , <b>2018</b> , 5, 2541-2548	6.3	38
356	Bandgap engineering and prospects for radiation-balanced vertical-external-cavity surface-emitting semiconductor lasers. <i>Optics Express</i> , <b>2018</b> , 26, 12985-13000	3.3	3
355	Temporal characteristics of quantum cascade laser frequency modulated combs in long wave infrared and THz regions. <i>Optics Express</i> , <b>2018</b> , 26, 14201-14212	3.3	9
354	Waveguide-based electro-absorption modulator performance: comparative analysis. <i>Optics Express</i> , <b>2018</b> , 26, 15445-15470	3.3	33
353	Attojoule Modulators for Photonic Neuromorphic Computing <b>2018</b> ,		4

352	Relative merits of phononics vs. plasmonics: the energy balance approach. <i>Nanophotonics</i> , <b>2018</b> , 7, 305-316	3.6	31
351	Pliable polaritons: Wannier exciton-plasmon coupling in metal-semiconductor structures. <i>Nanophotonics</i> , <b>2018</b> , 8, 629-639	6.3	5
350	Scaling vectors of attoJoule per bit modulators. <i>Journal of Optics (United Kingdom)</i> , <b>2018</b> , 20, 014012	1.7	27
349	Time, space, and spectral multiplexing for radiation balanced operation of semiconductor lasers. <i>Optics Express</i> , <b>2018</b> , 26, 24124-24134	3.3	3
348	Linewidth of the laser optical frequency comb with arbitrary temporal profile. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 131104	3.4	4
347	Sub-wavelength field enhancement in the mid-IR: photonics versus plasmonics versus phononics. <i>Optics Letters</i> , <b>2018</b> , 43, 4465-4468	3	3
346	Attojoule-efficient graphene optical modulators. <i>Applied Optics</i> , <b>2018</b> , 57, D130-D140	1.7	31
345	The Role of Surface Roughness in Plasmonic-Assisted Internal Photoemission Schottky Photodetectors. <i>ACS Photonics</i> , <b>2018</b> , 5, 4030-4036	6.3	35
344	Plasmonic silicon Schottky photodetectors: The physics behind graphene enhanced internal photoemission. <i>APL Photonics</i> , <b>2017</b> , 2, 026103	5.2	22
343	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> , <b>2017</b> , 375,	3	38
342	Electrically-driven optical antennas enabled by mesoscopic contacts <b>2017</b> ,		1
341	Landau Damping—the Ultimate Limit of Field Confinement and Enhancement in Plasmonic Structures. <i>Springer Series in Solid-state Sciences</i> , <b>2017</b> , 303-322	0.4	6
340	Biased Nanoscale Contact as Active Element for Electrically Driven Plasmonic Nanoantenna. <i>ACS Photonics</i> , <b>2017</b> , 4, 1501-1505	6.3	7
339	Optimization and Experimental Demonstration of Plasmonic Enhanced Internal Photoemission Silicon Schottky Detectors in the Mid-IR. <i>ACS Photonics</i> , <b>2017</b> , 4, 1015-1020	6.3	20
338	Landau Damping and Limit to Field Confinement and Enhancement in Plasmonic Dimers. <i>ACS Photonics</i> , <b>2017</b> , 4, 2871-2880	6.3	54
337	On the origin of nonlocal damping in plasmonic monomers and dimers. <i>International Journal of Modern Physics B</i> , <b>2017</b> , 31, 1740005	1.1	15
336	Active material, optical mode and cavity impact on nanoscale electro-optic modulation performance. <i>Nanophotonics</i> , <b>2017</b> , 7, 455-472	6.3	28
335	Nonlocality in Plasmonics. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , <b>2017</b> , 67-113	0.1	1

334	A deterministic guide for material and mode dependence of on-chip electro-optic modulator performance. <i>Solid-State Electronics</i> , <b>2017</b> , 136, 92-101	1.7	27
333	Response to [Comment on [Graphene] rather ordinary nonlinear optical material][Appl. Phys. Lett. 111, 106101 (2017)]. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 106102	3.4	7
332	Limits of imaging with multilayer hyperbolic metamaterials. <i>Optics Express</i> , <b>2017</b> , 25, 13588-13601	3.3	18
331	Room temperature continuous wave quantum dot cascade laser emitting at 7.2 $\mu$ m. <i>Optics Express</i> , <b>2017</b> , 25, 13807-13815	3.3	8
330	Pseudorandom dynamics of frequency combs in free-running quantum cascade lasers. <i>Optical Engineering</i> , <b>2017</b> , 57, 1	1.1	12
329	Impact of Landau Damping on Field Enhancement in Plasmonic Dimers <b>2017</b> ,		1
328	Trace gas Raman spectroscopy using functionalized waveguides. <i>Optica</i> , <b>2016</b> , 3, 891	8.6	51
327	Excitation of plasmonic nanoantennas by nonresonant and resonant electron tunnelling. <i>Nanoscale</i> , <b>2016</b> , 8, 14573-9	7.7	29
326	Nanophotonic waveguides for chip-scale raman spectroscopy: Theoretical considerations <b>2016</b> ,		2
325	Optically induced currents in dielectrics and semiconductors as a nonlinear optical effect. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, C1	1.7	19
324	Enhancement of Two-Photon Absorption in Quantum Wells for Extremely Nondegenerate Photon Pairs. <i>IEEE Journal of Quantum Electronics</i> , <b>2016</b> , 52, 1-14	2	4
323	What are the merits of hyperbolic metamaterials? <b>2016</b> ,		1
322	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> , <b>2016</b> , 55, 9166-9172	0.2	7
321	Hyperbolic metamaterials: beyond the effective medium theory. <i>Optica</i> , <b>2016</b> , 3, 1388	8.6	51
320	Fundamental limitations in spontaneous emission rate of single-photon sources. <i>Optica</i> , <b>2016</b> , 3, 1418	8.6	57
319	Ultralinear heterogeneously integrated ring-assisted Mach-Zehnder interferometer modulator on silicon. <i>Optica</i> , <b>2016</b> , 3, 1483	8.6	34
318	Current gain above 10 in sub-10 nm base III-Nitride tunneling hot electron transistors with GaN/AlN emitter. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 192101	3.4	6
317	Amplified spontaneous emission of phonons as a likely mechanism for density-dependent velocity saturation in GaN transistors. <i>Applied Physics Express</i> , <b>2016</b> , 9, 094101	2.4	16

316	On-Chip Integrated, Silicon-Graphene Plasmonic Schottky Photodetector with High Responsivity and Avalanche Photogain. <i>Nano Letters</i> , <b>2016</b> , 16, 3005-13	11.5	199
315	Highly linear heterogeneous-integrated Mach-Zehnder interferometer modulators on Si. <i>Optics Express</i> , <b>2016</b> , 24, 19040-7	3.3	26
314	Charge-Induced Second-Harmonic Generation in Bilayer WSe <sub>2</sub> . <i>Nano Letters</i> , <b>2015</b> , 15, 5653-7	11.5	72
313	Patients with urinary bladder paragangliomas: a compiled case series from a literature review for clinical management. <i>Urology</i> , <b>2015</b> , 85, e25-9	1.6	12
312	Common Emitter Current and Voltage Gain in III-Nitride Tunneling Hot Electron Transistors. <i>IEEE Electron Device Letters</i> , <b>2015</b> , 36, 436-438	4.4	1
311	Plasmonic and new plasmonic materials: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 178, 123-49	3.6	13
310	Surface plasmon enhanced spectroscopies and time and space resolved methods: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 178, 253-79	3.6	2
309	Prospects and merits of metal-clad semiconductor lasers from nearly UV to far IR. <i>Optics Express</i> , <b>2015</b> , 23, 4186-94	3.3	7
308	Plasmonic enhanced silicon pyramids for internal photoemission Schottky detectors in the near-infrared regime. <i>Optica</i> , <b>2015</b> , 2, 335	8.6	81
307	Two-dimensional exciton-polariton light guiding by transition metal dichalcogenide monolayers. <i>Optica</i> , <b>2015</b> , 2, 740	8.6	25
306	Current gain in sub-10 nm base GaN tunneling hot electron transistors with AlN emitter barrier. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 032101	3.4	7
305	Ultimate limit of field confinement by surface plasmon polaritons. <i>Faraday Discussions</i> , <b>2015</b> , 178, 109-23	3.6	64
304	Ultrafast Thermal Nonlinearity. <i>Scientific Reports</i> , <b>2015</b> , 5, 17899	4.9	31
303	On the origin of the second-order nonlinearity in strained Si <sub>3</sub> N <sub>4</sub> structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2015</b> , 32, 2494	1.7	23
302	Impact of surface collisions on enhancement and quenching of the luminescence near the metal nanoparticles. <i>Optics Express</i> , <b>2015</b> , 23, 30739-48	3.3	12
301	Density-dependent electron transport and precise modeling of GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 153504	3.4	44
300	Elastic scattering by hot electrons and apparent lifetime of longitudinal optical phonons in gallium nitride. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 262101	3.4	3
299	Low kappa, narrow bandwidth Si(3)N(4) Bragg gratings. <i>Optics Express</i> , <b>2015</b> , 23, 30329-36	3.3	18



298	Upconversion Due to Optical-Phonon-Assisted Anti-Stokes Photoluminescence in Bulk GaN. <i>ACS Photonics</i> , <b>2015</b> , 2, 628-632	6.3	20
297	Suspended photonic waveguide devices. <i>Applied Optics</i> , <b>2015</b> , 54, F164-73	0.2	9
296	How to deal with the loss in plasmonics and metamaterials. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 2-6	28.7	581
295	Comparative analysis of spasers, vertical-cavity surface-emitting lasers and surface-plasmon-emitting diodes. <i>Nature Photonics</i> , <b>2014</b> , 8, 468-473	33.9	102
294	Mid-infrared light emission from a Fe <sup>2+</sup> :ZnSe polycrystal using quantum cascade laser pumping. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 141108	3.4	8
293	Scaling Rules of SERS Intensity. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 382-388	8.1	42
292	Graphene: A rather ordinary nonlinear optical material. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 161116	3.4	59
291	Tunable Raman Selectivity via Randomization of a Rectangular Pattern of Nanodisks. <i>ACS Photonics</i> , <b>2014</b> , 1, 1006-1012	6.3	11
290	Trace gas absorption spectroscopy using functionalized microring resonators. <i>Optics Letters</i> , <b>2014</b> , 39, 969-72	3	36
289	High SFDR Super-Ring Microresonator based True-Time-Delay (TTD) <b>2014</b> ,		1
288	Mid-infrared difference-frequency generation in suspended GaAs waveguides. <i>Optics Letters</i> , <b>2014</b> , 39, 945-8	3	20
287	Linearized Bragg grating assisted electro-optic modulator. <i>Optics Letters</i> , <b>2014</b> , 39, 6946-9	3	7
286	Electronic states, pseudo-spin, and transport in the zinc-blende quantum wells and wires with vanishing band gap. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 132107	3.4	3
285	Near-infrared induced optical quenching effects on mid-infrared quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 251102	3.4	1
284	Multi-phonon-assisted absorption and emission in semiconductors and its potential for laser refrigeration. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 221115	3.4	11
283	SERS scaling rules. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 117, 647-650	2.6	5
282	Coherent frequency combs produced by self frequency modulation in quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 081118	3.4	85
281	Feasibility of spoof surface plasmon waveguide enabled ultrathin room temperature THz GaN quantum cascade laser. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1661, 13		

280	Commercially Packaged Optical True-Time-Delay Devices With Record Delays of Wide Bandwidth Signals <b>2014</b> ,		6
279	Mode division multiplexed (MDM) waveguide link scheme with cascaded Y-junctions. <i>Optics Communications</i> , <b>2013</b> , 309, 85-89	2	6
278	Third-order nonlinear plasmonic materials: Enhancement and limitations. <i>Physical Review A</i> , <b>2013</b> , 88,	2.6	12
277	Miniature, Linearized silicon photonics modulators for phased array systems <b>2013</b> ,		3
276	Experimental demonstration of coherent OCDMA using heterodyne detection. <i>Optics Letters</i> , <b>2013</b> , 38, 2351-3	3	1
275	Experimental Demonstration of Coherent OCDMA using Spectral Line Pairing and Heterodyne Detection <b>2013</b> ,		1
274	Plasmonic enhancement of the third order nonlinear optical phenomena: figures of merit. <i>Optics Express</i> , <b>2013</b> , 21, 27460-80	3.3	48
273	Randomization of gold nano-brick arrays: a tool for SERS enhancement. <i>Optics Express</i> , <b>2013</b> , 21, 13502-14	3.3	43
272	Linearized silicon modulator based on a ring assisted Mach Zehnder inteferometer. <i>Optics Express</i> , <b>2013</b> , 21, 22549-57	3.3	47
271	Spoof plasmon waveguide enabled ultrathin room temperature THz GaN quantum cascade laser: a feasibility study. <i>Optics Express</i> , <b>2013</b> , 21, 28054-61	3.3	17
270	Measurement of Minority Carrier Lifetime in n-Type MBE HgCdTe on Variable Substrates. <i>Journal of Electronic Materials</i> , <b>2012</b> , 41, 2785-2789	1.9	3
269	How small can Nano be in a Nanolaser? <i>Nanophotonics</i> , <b>2012</b> , 1, 3-8	6.3	48
268	Reflecting upon the losses in plasmonics and metamaterials. <i>MRS Bulletin</i> , <b>2012</b> , 37, 768-779	3.2	172
267	Fast Thermal Switching of Wideband Optical Delay Line With No Long-Term Transient. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 512-514	2.2	38
266	Practicality of compensating the loss in the plasmonic waveguides using semiconductor gain medium. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 011105	3.4	76
265	Importance of interface roughness induced intersubband scattering in mid-infrared quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 171117	3.4	41
264	From anti-Stokes photoluminescence to resonant Raman scattering in GaN single crystals and GaN-based heterostructures. <i>Laser and Photonics Reviews</i> , <b>2012</b> , 6, 660-677	8.3	18
263	Origin of giant difference between fluorescence, resonance, and nonresonance Raman scattering enhancement by surface plasmons. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	44

262	Laser-rate-equation description of optomechanical oscillators. <i>Physical Review Letters</i> , <b>2012</b> , 108, 223904-4	4.4	44
261	Robotic-assisted laparoscopic surgery in pediatric urology: an update. <i>Turk Uroloji Dergisi</i> , <b>2012</b> , 38, 102-111		
260	Analytical Model of Raman Enhancement by Metal Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1404, 102		
259	Optically pumped coherent mechanical oscillators: the laser rate equation theory and experimental verification. <i>New Journal of Physics</i> , <b>2012</b> , 14, 105022	2.9	12
258	Waveguide based compact silicon Schottky photodetector with enhanced responsivity in the telecom spectral band. <i>Optics Express</i> , <b>2012</b> , 20, 28594-602	3.3	132
257	The case for using gap plasmon-polaritons in second-order optical nonlinear processes. <i>Optics Express</i> , <b>2012</b> , 20, 28717-23	3.3	8
256	Heterodyne detection using spectral line pairing for spectral phase encoding optical code division multiple access and dynamic dispersion compensation. <i>Optics Express</i> , <b>2012</b> , 20, 17600-9	3.3	7
255	Comparative analysis of photoluminescence and Raman enhancement by metal nanoparticles. <i>Optics Letters</i> , <b>2012</b> , 37, 1583-5	3	14
254	Ultralow $V_{\pi}$ values in suspended quantum well waveguides. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 241111	3.4	1
253	Injection pumped single mode surface plasmon generators: threshold, linewidth, and coherence. <i>Optics Express</i> , <b>2012</b> , 20, 15309-25	3.3	45
252	Second-harmonic generation induced by electric currents in GaAs. <i>Physical Review Letters</i> , <b>2012</b> , 108, 077403	7.4	29
251	Guided-mode phonon-polaritons in suspended waveguides. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	19
250	Super-resolution spatial frequency differentiation of nanoscale particles with a vibrating nanograting. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 011101	3.4	1
249	Super-Ring Resonators: Taking Advantage of Resonance Variability <b>2012</b> ,		1
248	Locally oxidized silicon surface-plasmon Schottky detector for telecom regime. <i>Nano Letters</i> , <b>2011</b> , 11, 2219-24	11.5	226
247	PLASMONIC ENHANCEMENT OF OPTICAL PROPERTIES BY ISOLATED AND COUPLED METAL NANOPARTICLES. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , <b>2011</b> , 1-44	0.1	3
246	Integrated waveguide-DBR microcavity opto-mechanical system. <i>Optics Express</i> , <b>2011</b> , 19, 21904-18	3.3	27
245	Super-resolution imaging via spatiotemporal frequency shifting and coherent detection. <i>Optics Express</i> , <b>2011</b> , 19, 22350-7	3.3	5

244	Demonstration of a mode-conversion cavity add-drop filter. <i>Optics Letters</i> , <b>2011</b> , 36, 2230-2	3	17
243	Temperature Dependence of the Transparency Current Density in Mid-Infrared Quantum Cascade Lasers <b>2011</b> ,		1
242	Plasmon Enhancement of Luminescence by Metal Nanoparticles. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2011</b> , 17, 110-118	3.8	31
241	Coupled-mode theory of field enhancement in complex metal nanostructures. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	26
240	Scaling of losses with size and wavelength in nanoplasmonics and metamaterials. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 211106	3.4	87
239	Optimization of the nanolens consisting of coupled metal nanoparticles: An analytical approach. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 153115	3.4	7
238	Theory of optical emission enhancement by coupled metal nanoparticles: An analytical approach. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 113116	3.4	16
237	Eigen mode approach to the sub-wavelength imaging with surface plasmon polaritons. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 263102	3.4	6
236	Eigen mode Approach to the Sub-wavelength Imaging with Surface Plasmon Polaritons <b>2011</b> ,		1
235	Highly power-efficient quantum cascade lasers. <i>Nature Photonics</i> , <b>2010</b> , 4, 95-98	33.9	119
234	Comparative study of field enhancement between isolated and coupled metal nanoparticles: An analytical approach. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 263110	3.4	35
233	Photoluminescence emission in deep ultraviolet region from GaN/AlN asymmetric-coupled quantum wells. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 021904	3.4	12
232	Periodically poled silicon <b>2010</b> ,		1
231	In search of the elusive lossless metal. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 181102	3.4	92
230	Slow light in various media: a tutorial. <i>Advances in Optics and Photonics</i> , <b>2010</b> , 2, 287	16.7	111
229	Wide-bandwidth continuously tunable optical delay line using silicon microring resonators. <i>Optics Express</i> , <b>2010</b> , 18, 26525-34	3.3	106
228	Enhanced electro-optic phase shifts in suspended waveguides. <i>Optics Express</i> , <b>2010</b> , 18, 885-92	3.3	9
227	Transport and gain in a quantum cascade laser: model and equivalent circuit. <i>Optical Engineering</i> , <b>2010</b> , 49, 111110	1.1	6

226	Short Injector Quantum Cascade Lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2010</b> , 46, 591-600	2	8
225	Pockels effect in short period silicon germanium superlattices. <i>Optics Communications</i> , <b>2010</b> , 283, 432-434		2
224	Large Tunable Delay of an RF Photonic Signal with 130 GHz Bandwidth Using Silicon Microresonators <b>2010</b> ,		4
223	Limitations to the Power Output and Efficiency of Mid-Infrared Quantum Cascade Lasers Imposed by Transport <b>2010</b> ,		1
222	Performance of Single and Coupled Microresonators in Photonic Switching Schemes. <i>Springer Series in Optical Sciences</i> , <b>2010</b> , 227-251	0.5	1
221	Practical limits of absorption enhancement near metal nanoparticles. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 071103	3.4	51
220	Enhancement of light absorption in a quantum well by surface plasmon polariton. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 191106	3.4	14
219	Impact of high-order surface plasmon modes of metal nanoparticles on enhancement of optical emission. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 171103	3.4	51
218	Impact of disorder on surface plasmons in two-dimensional arrays of metal nanoparticles. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 221111	3.4	18
217	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> , <b>2009</b> , 24, 055010	1.8	8
216	Investigation of hot electrons and hot phonons generated within an AlN/GaN high electron mobility transistor. <i>Laser Physics</i> , <b>2009</b> , 19, 745-751	1.2	4
215	Tunable wideband optical delay line based on balanced coupled resonator structures. <i>Optics Letters</i> , <b>2009</b> , 34, 2655-7	3	42
214	Enhancement of optical properties of nanoscaled objects by metal nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2009</b> , 26, B83	1.7	69
213	Role of interface roughness in the transport and lasing characteristics of quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 091101	3.4	65
212	Linearized Ring-Assisted Electrooptical Modulator for Coherent Optical OFDM Links. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 1621-1623	2.2	5
211	Microwave Photonic Delay Line With Separate Tuning of the Optical Carrier. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 1686-1688	2.2	80
210	Stress-induced $\beta$ in silicon $\beta$ Comparison between theoretical and experimental values <b>2009</b> ,		3
209	Practical enhancement of photoluminescence by metal nanoparticles. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 101103	3.4	96

208	Bit Rate Limitations in Single and Coupled Microresonators. <i>Optical Science and Engineering</i> , <b>2009</b> , 507-528		
207	Intersubband Absorption Loss in High-Performance Mid-Infrared Quantum Cascade Lasers <b>2009</b> ,		1
206	Stokes and anti-Stokes resonant Raman scatterings from biased GaN/AlN heterostructure. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 051912	3-4	11
205	Passively mode-locked slow pump optical parametric oscillators. <i>Optics Letters</i> , <b>2008</b> , 33, 153-5	3	
204	Suspended AlGaAs waveguides for tunable difference frequency generation in mid-infrared. <i>Optics Letters</i> , <b>2008</b> , 33, 2904-6	3	9
203	Plasmonic light-emission enhancement with isolated metal nanoparticles and their coupled arrays. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2008</b> , 25, 1748	1-7	65
202	Low-loss suspended quantum well waveguides. <i>Optics Express</i> , <b>2008</b> , 16, 2621-7	3-3	16
201	Passive mode locking of optical parametric oscillators: an efficient technique for generating sub-picosecond pulses. <i>Optics Express</i> , <b>2008</b> , 16, 4804-18	3-3	7
200	Phased-array cancellation of nonlinear FWM in coherent OFDM dispersive multi-span links. <i>Optics Express</i> , <b>2008</b> , 16, 15777-810	3-3	111
199	Isotope disorder of phonons in GaN and its beneficial effect on high power field effect transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 032110	3-4	16
198	Electroluminescence efficiency enhancement using metal nanoparticles. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 021120	3-4	43
197	Role of bandtail states in laser cooling of semiconductors. <i>Physical Review B</i> , <b>2008</b> , 77,	3-3	36
196	Design of GeSiSn/Ge quantum cascade laser <b>2008</b> ,		1
195	Inhomogeneous origin of the interface roughness broadening of intersubband transitions. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 091104	3-4	31
194	Evidence of hot electrons generated from an AlN/GaN high electron mobility transistor. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 013513	3-4	17
193	Phonon-assisted ultraviolet anti-Stokes photoluminescence from GaN film grown on Si (111) substrate. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 201107	3-4	14
192	Recent Advances in Coherent Optical OFDM High-Speed Transmission <b>2008</b> ,		4
191	Bandwidth Limitation in Slow Light Schemes. <i>Optical Science and Engineering</i> , <b>2008</b> ,		2

190	Phase and Polarization Diversity for Minimum MAI in OCDMA Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2007</b> , 13, 1386-1395	3.8	4
189	Biological Life Signs Detection Using High Sensitivity Pulsed Laser Vibrometer <b>2007</b> ,		1
188	High Spectral Efficiency Phase Diversity Coherent Optical CDMA with low MAI <b>2007</b> ,		3
187	Hot phonon effect on electron velocity saturation in GaN: A second look. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 252104	3.4	53
186	Surface Plasmon-Assisted Laser Cooling of Solids. <i>Physical Review Letters</i> , <b>2007</b> , 98,	7.4	37
185	Limits of luminescence efficiency enhancement by surface plasmon polaritons <b>2007</b> ,		2
184	Dispersion and loss limitations on the performance of optical delay lines based on coupled resonant structures. <i>Optics Letters</i> , <b>2007</b> , 32, 133-5	3	33
183	Power dissipation in slow light devices: a comparative analysis. <i>Optics Letters</i> , <b>2007</b> , 32, 163-5	3	16
182	Add-drop filters based on mode-conversion cavities. <i>Optics Letters</i> , <b>2007</b> , 32, 1253-5	3	9
181	Enhancement of luminescence efficiency using surface plasmon polaritons: figures of merit. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, 1968	1.7	70
180	Practicable enhancement of spontaneous emission using surface plasmons. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 111107	3.4	100
179	MOCVD growth and regrowth of quantum cascade lasers <b>2007</b> ,		2
178	Human Life Signs Detection Using High-Sensitivity Pulsed Laser Vibrometer. <i>IEEE Sensors Journal</i> , <b>2007</b> , 7, 1370-1376	4	18
177	Strain-free Ge <sub>0.5</sub> Si <sub>0.5</sub> Sn quantum cascade lasers based on L-valley intersubband transitions. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 251105	3.4	63
176	High sensitivity pulsed laser vibrometer for surface vibration monitoring <b>2006</b> ,		1
175	Stimulated polariton scattering in intersubband lasers: Role of motional narrowing. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	5
174	Quantum interference control of electrical currents and THz radiation in optically excited zinc-blende quantum wells. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	9
173	Observation of strong many-body effects in thin InN films grown on GaN buffer layers <b>2006</b> ,		2

172	Design of a GaN/AlGaN intersubband Raman laser electrically tunable over the 3 $\mu$ m atmospheric transmission window. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 033103	2.5	8
171	Optical isolating action in surface plasmon polaritons. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 251115	3.4	50
170	Intersubband spin pump. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 123511	3.4	4
169	Closed-Loop Bias Control of Optical Quadrature Modulator. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 2209-2211	2.2	26
168	Band gap engineering for laser cooling of semiconductors. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 113116	2.5	29
167	Performance limits of delay lines based on optical amplifiers. <i>Optics Letters</i> , <b>2006</b> , 31, 948-50	3	50
166	Slow Light: Fundamentals & Applications <b>2006</b> , CThD3		
165	Band gap engineering for laser cooling of semiconductors <b>2006</b> ,		5
164	A model for optimization of the performance of frequency-Modulated DFB semiconductor laser. <i>IEEE Journal of Quantum Electronics</i> , <b>2005</b> , 41, 473-482	2	4
163	Analysis of phase locking in diffraction-coupled arrays of semiconductor lasers with gain/index coupling. <i>IEEE Journal of Quantum Electronics</i> , <b>2005</b> , 41, 1065-1074	2	2
162	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> , <b>2005</b> , 22, 1062	1.7	218
161	Expanding the bandwidth of slow-light photonic devices based on coupled resonators. <i>Optics Letters</i> , <b>2005</b> , 30, 513-5	3	74
160	Performance of nonlinear photonic crystal devices at high bit rates. <i>Optics Letters</i> , <b>2005</b> , 30, 643-5	3	13
159	Adiabatically tunable optical delay lines and their performance limitations. <i>Optics Letters</i> , <b>2005</b> , 30, 2778-80	3	19
158	A comparative study of InAs quantum dot lasers with barriers of direct and indirect band gaps. <i>Microelectronics Journal</i> , <b>2005</b> , 36, 183-185	1.8	
157	Active region design of a terahertz GaN/Al <sub>0.15</sub> Ga <sub>0.85</sub> N quantum cascade laser. <i>Superlattices and Microstructures</i> , <b>2005</b> , 37, 107-113	2.8	58
156	Experimental characterization of the separation between wavelength-multiplexed quantum and classical communication channels. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 174103	3.4	22
155	Slowing and stopping photons using backward frequency conversion in quasi-phase-matched waveguides. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	19



154	Nonlinear all-optical GaN/AlGaIn multi-quantum-well devices for 100Gb/s applications at $\lambda = 1.55 \mu\text{m}$ . <i>Applied Physics Letters</i> , <b>2005</b> , 87, 2011-108	3.4	11
153	Optical phonons in a periodically inverted polar superlattice. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	2
152	Demonstration of high-spectral-efficiency 40-Gb/s optical communications system using 4 bits per symbol coding <b>2004</b> , 5440, 371		2
151	Reduced threshold current of a quantum dot laser in a short period superlattice of indirect-band gap. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3861-3863	3.4	6
150	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> , <b>2004</b> , 16, 656-658	2.2	41
149	A low-crosstalk semiconductor optical amplifier. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 392-394	2.2	12
148	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> , <b>2004</b> , 16, 918-920	2.2	15
147	Reducing adjacent channel interference in RZ WDM systems via dispersion interleaving. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 915-917	2.2	6
146	Design of quantum-dot lasers with an indirect bandgap short-period Superlattice for reducing the linewidth enhancement factor. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 2203-2205	2.2	8
145	Picosecond acoustic phonon pulse propagation in silicon. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	43
144	A dispersion management scheme for reducing SOA-induced crosstalk in WDM links. <i>Journal of Lightwave Technology</i> , <b>2004</b> , 22, 417-422	4	11
143	Mid-IR optical limiter based on type-II quantum wells. <i>IEEE Journal of Quantum Electronics</i> , <b>2004</b> , 40, 1490-1499		
142	Pulsed-laser vibrometer using photoelectromotive-force sensors. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1893-1895	3.4	14
141	Suppression of spurious intensity modulation in frequency-modulated semiconductor lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2003</b> , 9, 1294-1299	3.8	2
140	Suppression of cross-gain modulation in SOA using RZ-DPSK modulation format. <i>IEEE Photonics Technology Letters</i> , <b>2003</b> , 15, 162-164	2.2	40
139	Linearized Mach-Zehnder intensity modulator. <i>IEEE Photonics Technology Letters</i> , <b>2003</b> , 15, 531-533	2.2	62
138	Reducing crosstalk and signal distortion in wavelength-division multiplexing by increasing carrier lifetimes in semiconductor optical amplifiers. <i>Journal of Lightwave Technology</i> , <b>2003</b> , 21, 1474-1485	4	22
137	Reductions of threshold for a mid-infrared optical parametric oscillator by an intracavity optical amplifier. <i>Optics Letters</i> , <b>2003</b> , 28, 552-4	3	4

136	Feasibility analysis of phonon lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2003</b> , 39, 600-607	2	20
135	Microcavity effect on the electron-hole relative motion in semiconductor quantum wells. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	18
134	Cascaded Raman self-frequency shifted soliton generation in an Er/Yb-doped fiber amplifier. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 2695-2697	3.4	5
133	Acoustic cavity polariton in multilayer piezoelectric structures. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4742-4744	3.4	2
132	Stimulated-emission-induced enhancement of the decay rate of longitudinal optical phonons in III-V semiconductors. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 2901-2903	3.4	14
131	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> , <b>2002</b> , 19, 177	1.7	7
130	Cost-effective low timing jitter passively Q-switched diode-pumped solid-state laser with composite pumping pulses. <i>Applied Optics</i> , <b>2002</b> , 41, 1095-7	1.7	36
129	Reduced crosstalk semiconductor optical amplifiers based on Type-II quantum wells. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 278-280	2.2	15
128	Compact linearized optical FM discriminator. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 384-386	2.2	17
127	Ring-assisted frequency discriminator with improved linearity. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 1136-1138	2.2	21
126	Modeling of Q-switched semiconductor lasers based on type-II quantum wells: Increasing the pulse energy and peak power. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 2631-2633	3.4	5
125	Excitonic radius in the cavity polariton in the regime of very strong coupling. <i>Solid State Communications</i> , <b>2001</b> , 117, 307-310	1.6	28
124	Displacement measurement with adjustable range by use of the photoelectromotive force effect and a frequency-modulated laser diode. <i>Optics Letters</i> , <b>2001</b> , 26, 1170-2	3	2
123	. <i>Journal of Lightwave Technology</i> , <b>2001</b> , 19, 666-672	4	4
122	Generation of mid-infrared radiation in a highly absorbing nonlinear medium. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2001</b> , 18, 340	1.7	8
121	Phonon-pumped SiGe-Si interminiband terahertz laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2001</b> , 7, 376-380	3.8	5
120	Analysis of the performance of the quantum wire resonant tunneling field-effect transistor. <i>Superlattices and Microstructures</i> , <b>2000</b> , 27, 245-254	2.8	3
119	Khurgin and voisin reply:. <i>Physical Review Letters</i> , <b>2000</b> , 84, 4514	7.4	2

118	Displacement measurement that uses transient photoelectromotive force effects in CdTe:V with frequency-modulated lasers. <i>Applied Optics</i> , <b>2000</b> , 39, 3138-42	1.7	5
117	Ultrabroad-bandwidth electro-optic modulator based on a cascaded Bragg grating. <i>Optics Letters</i> , <b>2000</b> , 25, 70-2	3	31
116	Cascaded waveguide phase-matching arrangement. <i>Optics Letters</i> , <b>2000</b> , 25, 496-8	3	2
115	Light slowing down in Moiré fiber gratings and its implications for nonlinear optics. <i>Physical Review A</i> , <b>2000</b> , 62,	2.6	52
114	Resonant tunneling field-effect transistor based on wave function shape modulation in quantum wires. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 3218-3221	2.5	5
113	Displacement measurement and surface profiling using semi-insulating photoconductive semiconductors and linearly frequency-ramped lasers. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1374-1376	3.4	4
112	Heterodyning far-infrared radiation using coherently controlled directional photocurrent in semiconductors. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 4-6	3.4	12
111	Backward second-harmonic and third-harmonic generation in a periodically poled potassium titanyl phosphate waveguide. <i>Optics Letters</i> , <b>1999</b> , 24, 127-9	3	47
110	Damage mechanisms for KTiOPO <sub>4</sub> crystals under irradiation of a cw argon laser <b>1999</b> , 3610, 9		1
109	Heterodyning Scheme Employing Quantum Interference <b>1999</b> , 203-212		
108	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> , <b>1998</b> , 34, 966-974	2	26
107	A new scheme for efficient generation of coherent and incoherent submillimeter to THz waves in periodically-poled lithium niobate. <i>Optics Communications</i> , <b>1998</b> , 148, 105-109	2	45
106	Observation of backward sum-frequency generation in periodically-poled lithium niobate. <i>Optics Communications</i> , <b>1998</b> , 155, 323-326	2	5
105	Exchange interactions in strained quantum dot arrays and possibility of engineering their magnetic properties. <i>Superlattices and Microstructures</i> , <b>1998</b> , 24, 133-142	2.8	3
104	Backward Second-harmonic Generation in Periodically-poled LiNbO <sub>3</sub> . <i>Optics and Photonics News</i> , <b>1998</b> , 9, 29	1.9	1
103	Tunable intersubband Raman laser in GaAs/AlGaAs multiple quantum wells. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1998</b> , 15, 648	1.7	27
102	Backward second-harmonic generation in periodically poled lithium niobate. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1998</b> , 15, 1561	1.7	46
101	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> , <b>1998</b> , 15, 1567	1.7	13

100	Analysis of all-semiconductor intracavity optical parametric oscillators. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1998</b> , 15, 1726	1.7	11
99	Intersubband lasers based on the subband dispersion of inverted mass. <i>Optics Express</i> , <b>1998</b> , 2, 143-50	3.3	1
98	Valence intersubband lasers with inverted light-hole effective mass. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 1481-1483	3.4	23
97	Ultrafast generation of blue light by efficient second-harmonic generation in periodically-poled bulk and waveguide potassium titanyl phosphate. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 873-875	3.4	20
96	Engineering of the magnetic properties of strained quantum dots. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3944-3946	3.4	2
95	Permanent Dipole Contribution to the Linear Electro-optic Effect and Valence Band Dispersion in Zinc-Blende Semiconductors. <i>Physical Review Letters</i> , <b>1998</b> , 81, 3777-3780	7.4	14
94	Two-photon transitions between bound-to-continuum states in AlGaAs/GaAs multiple quantum well. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3638-3640	3.4	5
93	Heterodyning scheme employing quantum interference. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 13-15	3.4	6
92	Observation of an anomalously large blueshift of apparent donor-acceptor pair transition peak in compensation-doped quantum wells. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 534-536	3.4	4
91	Artificial ferroelectricity in coupled strained quantum dots. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3102-3104	3.4	1
90	Second-Order Nonlinearities and Optical Rectification. <i>Semiconductors and Semimetals</i> , <b>1998</b> , 1-82	0.6	9
89	Spatially-Localized Band-Filling Effects and Band-Gap Renormalization in Growth-Interrupted Quantum Wells. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>1998</b> , 07, 73-103	0.8	
88	Surface-emitting second harmonic generation from short laser pulses <b>1998</b> , 3277, 226		
87	THz Intersubband Lasers Using the Inverted Mass Scheme <b>1998</b> , 167-172		
86	Structural and electric-field-induced anisotropy in zinc-blende bulk semiconductors and quantum wells - the bonding orbital approach. <i>Semiconductor Science and Technology</i> , <b>1997</b> , 12, 1378-1387	1.8	8
85	A model for visible photon emission from reverse-biased silicon p-n junctions. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 470-471	3.4	29
84	Autocorrelation of mode-locked laser pulses based on the synchronous drift of photogenerated carriers. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 1765-1767	3.4	
83	Evidence for strong spatially localized band-filling effects at interface islands. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 2581-2583	3.4	10

82	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> , <b>1997</b> , 82, 4732-4739	2.5	1
81	Single-Fiber Two-Photon Fluoroprobe for Biological Markers. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>1997</b> , 06, 305-311	0.8	
80	Pressure and strain sensors based on intervalley electron transfer in AlGaAs. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 3437-3439	3.4	2
79	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> , <b>1997</b> , 14, 1043	1.7	2
78	Practical aspects of optically coupled inversionless lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1997</b> , 14, 1249	1.7	11
77	Cascaded optical nonlinearities: Microscopic understanding as a collective effect. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1997</b> , 14, 1977	1.7	20
76	Transversely pumped counterpropagating optical parametric amplification and difference-frequency generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1997</b> , 14, 2161	1.7	4
75	Effects of two-photon absorption in saturable Bragg reflectors used in femtosecond solid state lasers. <i>Optics Express</i> , <b>1997</b> , 1, 68-72	3.3	5
74	Directional couplers based on cascaded second-order nonlinearities in surface-emitting geometry. <i>Optics Communications</i> , <b>1997</b> , 139, 63-68	2	4
73	MIRRORLESS OPTICAL PARAMETRIC OSCILLATORS. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>1996</b> , 05, 223-246	0.8	2
72	Optical frequency shifters based on cascaded second-order nonlinear processes. <i>Optics Letters</i> , <b>1996</b> , 21, 558-60	3	9
71	Second-harmonic generation based on quasi-phase matching: a novel configuration. <i>Optics Letters</i> , <b>1996</b> , 21, 1445-7	3	36
70	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> , <b>1996</b> , 13, 536	1.7	3
69	Dispersion and anisotropy of optical rectification in zinc blende quantum wells. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1996</b> , 13, 2129	1.7	12
68	Influence of the size dispersion on the emission spectra of the Si nanostructures. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 1241-1243	3.4	41
67	Engineering of the nonradiative transition rates in modulation-doped multiple-quantum wells. <i>IEEE Journal of Quantum Electronics</i> , <b>1996</b> , 32, 1155-1160	2	7
66	Backward optical parametric oscillators and amplifiers. <i>IEEE Journal of Quantum Electronics</i> , <b>1996</b> , 32, 1574-1582	2	54
65	Practical aspects of lasing without inversion in various media. <i>IEEE Journal of Quantum Electronics</i> , <b>1996</b> , 32, 1882-1896	2	15

64	Novel quantum box intersubband lasing mechanism based on image charges. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 1038-1040	3.4	6
63	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> , <b>1996</b> , 28, 1617-1627	2.7	7
62	Balance equations and threshold conditions for the inversionless laser in an autoionizing system. <i>Physical Review A</i> , <b>1996</b> , 54, 2451-2454	2.6	4
61	Optically-induced Anderson delocalization transition in disordered systems. <i>Optics Communications</i> , <b>1995</b> , 115, 466-470	2	2
60	Investigation of the temperature dependent recombination processes in periodic four-narrow-asymmetric-coupled-quantum-well structures. <i>Journal of Luminescence</i> , <b>1995</b> , 63, 55-61	3.8	7
59	Current induced second harmonic generation in semiconductors. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 1113-1115	3.1	37
58	Transversely pumped counterpropagating optical parametric oscillation and amplification. <i>Physical Review Letters</i> , <b>1995</b> , 75, 429-432	7.4	36
57	Switching of superradiance in semiconductor superlattices. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 3316-3318	3.4	0
56	Comparative analysis of optically pumped intersubband lasers and intersubband Raman oscillators. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 7398-7400	2.5	42
55	. <i>IEEE Journal of Quantum Electronics</i> , <b>1995</b> , 31, 219-227	2	6
54	Two-photon-induced fluorescence of biological markers based on optical fibers. <i>Optics Letters</i> , <b>1995</b> , 20, 2054-6	3	18
53	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> , <b>1995</b> , 12, 275	1.7	8
52	Excitonic enhancement of two-photon absorption in semiconductor quantum-well structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 1222	1.7	16
51	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> , <b>1995</b> , 12, 1586	1.7	13
50	GENERATION OF THE TERAHERZ RADIATION USING (B) IN SEMICONDUCTOR. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>1995</b> , 04, 163-189	0.8	22
49	. <i>IEEE Journal of Quantum Electronics</i> , <b>1995</b> , 31, 1648-1658	2	10
48	Dynamic Wannier-Stark effect in semiconductor superlattices. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 3275-3277	3.4	2
47	Nonradiative recombination and saturation of traps in multiple intrinsic quantum wells. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 1727-1732	2.5	6

46	Investigation of the photoluminescence-linewidth broadening in periodic multiple narrow asymmetric coupled quantum wells. <i>Physical Review B</i> , <b>1994</b> , 50, 4463-4469	3.3	14
45	Resonant cascaded surface-emitting second-harmonic generation: a strong third-order nonlinear process. <i>Optics Letters</i> , <b>1994</b> , 19, 1016-8	3	22
44	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> , <b>1994</b> , 11, 624	1.7	18
43	Optical rectification and terahertz emission in semiconductors excited above the band gap. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1994</b> , 11, 2492	1.7	39
42	Feasibility of the artificial ultrahigh mobility materials. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 208-210	3.4	1
41	Influence of the Dispersion of the Size of the Si Nanocrystals on their Emission Spectra. <i>Materials Research Society Symposia Proceedings</i> , <b>1994</b> , 358, 193		6
40	. <i>IEEE Journal of Quantum Electronics</i> , <b>1993</b> , 29, 1104-1111	2	83
39	Saturation of near-resonant $\chi^{(3)}$ in quantum-confined semiconductors. <i>Physical Review B</i> , <b>1993</b> , 48, 1607-1611	3.3	4
38	Second-order nonlinear optical susceptibility in p-doped asymmetric quantum wells. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 1727-1729	3.4	23
37	Two-photon absorption and nonresonant nonlinear index of refraction in the intersubband transitions in the quantum wells. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 126-128	3.4	22
36	Two photon confined-to-continuum intersubband transitions in the semiconductor heterostructures. <i>Journal of Applied Physics</i> , <b>1993</b> , 73, 4367-4369	2.5	11
35	Feasibility of phonon-assisted electronic devices. <i>Journal of Applied Physics</i> , <b>1993</b> , 74, 2562-2564	2.5	3
34	Comparative analysis of the intersubband versus band-to-band transitions in quantum wells. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 1390-1392	3.4	20
33	Carrier filtering in type II superlattices. <i>Solid State Communications</i> , <b>1993</b> , 85, 535-538	1.6	
32	Amplified spontaneous emission in electron-beam-pumped surface-emitting semiconductor lasers. <i>Optical and Quantum Electronics</i> , <b>1993</b> , 25, 451-465	2.4	4
31	Active antireflection coating electrooptic modulator. <i>Optical and Quantum Electronics</i> , <b>1993</b> , 25, S917-S923		
30	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> , <b>1993</b> , 10, 108	1.7	4
29	Microwave-developed three-dimensional real-time holography. <i>Optics Letters</i> , <b>1993</b> , 18, 1855-7	3	

28	Excitonic electroabsorption in type II superlattices. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 1694-1696	3.4	10
27	Longitudinal Coulomb attraction in coupled quantum wells. <i>Physical Review B</i> , <b>1992</b> , 46, 12535-12541	3.3	0
26	Electroabsorption in the type II superlattices. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 1969-1971	3.4	11
25	Continuous-wave photoluminescence excitation spectra of multiple narrow-stepped quantum wells: Evidence for saturation of interface traps. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 154-156	3.4	26
24	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> , <b>1992</b> , 60, 2051-2053	3.4	32
23	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> , <b>1991</b> , 59, 1025-1027	3.4	13
22	Room-temperature photopumped blue lasing in ZnSe-ZnS <sub>0.06</sub> Se <sub>0.94</sub> double heterostructures. <i>Applied Physics Letters</i> , <b>1991</b> , 59, 310-311	3.4	31
21	Strong excitonic nonlinearity in a P-I-N photodiode incorporating narrow asymmetric coupled quantum wells. <i>Optics Letters</i> , <b>1991</b> , 16, 949-51	3	1
20	Frequency doubling and phase matching with II-VI microcrystals. <i>Journal of Crystal Growth</i> , <b>1990</b> , 101, 748-753	1.6	1
19	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)]. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 1364-1364	3.4	
18	Mechanism for efficient blue second-harmonic generation in periodically segmented waveguides. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 2540-2542	3.4	29
17	Optical generation of picosecond electrical pulses in asymmetric quantum well structures placed in a transverse magnetic field. <i>Applied Physics Letters</i> , <b>1990</b> , 56, 2490-2492	3.4	
16	Spectral measurement of the nonlinear refractive index in ZnSe using self-bending of a pulsed laser beam. <i>Optics Letters</i> , <b>1990</b> , 15, 1431-3	3	19
15	. <i>IEEE Journal of Quantum Electronics</i> , <b>1990</b> , 26, 876-882	2	1
14	Quantum-confined piezoelectric effect. <i>Journal of Applied Physics</i> , <b>1989</b> , 66, 994-996	2.5	2
13	Electro-optical switching and bistability in coupled quantum wells. <i>Applied Physics Letters</i> , <b>1989</b> , 54, 2589-2591	3.4	26
12	Improvement of frequency-conversion efficiency in waveguides with rotationally twinned layers. <i>Optics Letters</i> , <b>1988</b> , 13, 603	3	10
11	Second-order nonlinear effects in asymmetric quantum-well structures. <i>Physical Review B</i> , <b>1988</b> , 38, 4056-4066	3.4	140



10	Large-scale quantum well domain structures. <i>Journal of Applied Physics</i> , <b>1988</b> , 64, 5026-5029	2.5	23
9	Novel configuration of self-electro-optic effect device based on asymmetric quantum wells. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 779-781	3.4	27
8	Cathodoluminescence, gain, and stimulated emission in electron-beam-pumped ZnCdSe. <i>Journal of Applied Physics</i> , <b>1987</b> , 61, 1606-1609	2.5	10
7	Threshold in electron-beam end-pumped II-VI lasers. <i>Journal of Applied Physics</i> , <b>1987</b> , 62, 2633-2639	2.5	7
6	Electron beam pumped lasing in ZnSe/ZnSse superlattice structures grown by molecular-beam epitaxy. <i>Journal of Applied Physics</i> , <b>1987</b> , 62, 3071-3074	2.5	59
5	Theoretical and experimental investigation of amplified spontaneous emission in electron-beam-pumped semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>1987</b> , 23, 194-204	2	4
4	Second-order susceptibility of asymmetric coupled quantum well structures. <i>Applied Physics Letters</i> , <b>1987</b> , 51, 2100-2102	3.4	60
3	Single longitudinal mode operation of the electron-beam-pumped semiconductor laser. <i>IEEE Journal of Quantum Electronics</i> , <b>1986</b> , 22, 1158-1161	2	6
2	An ITO/graphene heterojunction integrated absorption modulator on Si-photonics for neuromorphic nonlinear activation. <i>APL Photonics</i> ,	5.2	3
1	Spin-Polarized Electrons Impact on Terahertz Emission by High-Order Shift Current in CsPbBr <sub>3</sub> . <i>Advanced Optical Materials</i> , 2100822	8.1	1