Jacob B Khurgin

List of Publications by Year
in descending order

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585	12,975	23544	42364
papers	citations	58 h-index	92 g-index

587	587	587	11083
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	How to deal with the loss in plasmonics and metamaterials. Nature Nanotechnology, 2015, 10, 2-6.	15.6	787
2	Optical buffers based on slow light in electromagnetically induced transparent media and coupled resonator structures: comparative analysis. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1062.	0.9	292
3	Locally Oxidized Silicon Surface-Plasmon Schottky Detector for Telecom Regime. Nano Letters, 2011, 11, 2219-2224.	4.5	285
4	On-Chip Integrated, Siliconâ€“Graphene Plasmonic Schottky Photodetector with High Responsivity and Avalanche Photogain. Nano Letters, 2016, 16, 3005-3013.	4.5	265
5	Highâ€Performance Singleâ€Crystalline Perovskite Thinâ€Film Photodetector. Advanced Materials, 2018, 30, 1704333.	11.1	225
6	Reflecting upon the losses in plasmonics and metamaterials. MRS Bulletin, 2012, 37, 768-779.	1.7	219
7	Second-order nonlinear effects in asymmetric quantum-well structures. Physical Review B, 1988, 38, 4056-4066.	1.1	161
8	Waveguide based compact silicon Schottky photodetector with enhanced responsivity in the telecom spectral band. Optics Express, 2012, 20, 28594.	1.7	156
9	Slow light in various media: a tutorial. Advances in Optics and Photonics, 2010, 2, 287.	12.1	154
10	Highly power-efficient quantum cascade lasers. Nature Photonics, 2010, 4, 95-98.	15.6	150
11	Wide-bandwidth continuously tunable optical delay line using silicon microring resonators. Optics Express, 2010, 18, 26525.	1.7	139
12	Phased-array cancellation of nonlinear FWM in coherent OFDM dispersive multi-span links. Optics Express, 2008, 16, 15777.	1.7	129
13	Microwave Photonic Delay Line With Separate Tuning of the Optical Carrier. IEEE Photonics Technology Letters, 2009, 21, 1686-1688.	1.3	121
14	Comparative analysis of spasers, vertical-cavity surface-emitting lasers and surface-plasmon-emitting diodes. Nature Photonics, 2014, 8, 468-473.	15.6	117
15	Practicable enhancement of spontaneous emission using surface plasmons. Applied Physics Letters, 2007, 90, 111107.	1.5	116
16	Practical enhancement of photoluminescence by metal nanoparticles. Applied Physics Letters, 2009, 94, .	1.5	116
17	In search of the elusive lossless metal. Applied Physics Letters, 2010, 96, 181102.	1.5	116
18	Coherent frequency combs produced by self frequency modulation in quantum cascade lasers. Applied Physics Letters, 2014, 104, .	1.5	116

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19	Nonlinear optical properties of halide perovskites and their applications. Applied Physics Reviews, 2020, 7, .	5.5	114
20	Plasmonic enhanced silicon pyramids for internal photoemission Schottky detectors in the near-infrared regime. Optica, 2015, 2, 335.	4.8	111
21	ITO-based electro-absorption modulator for photonic neural activation function. APL Materials, 2019, 7, .	2.2	105
22	Scaling of losses with size and wavelength in nanoplasmonics and metamaterials. Applied Physics Letters, 2011, 99, 211106.	1.5	104
23	Hot carriers generated by plasmons: where are they generated and where do they go from there?. Faraday Discussions, 2019, 214, 35-58.	1.6	102
24	Charge-Induced Second-Harmonic Generation in Bilayer WSe₂. Nano Letters, 2015, 15, 5653-5657.	4.5	101
25	Expanding the bandwidth of slow-light photonic devices based on coupled resonators. Optics Letters, 2005, 30, 513.	1.7	97
26	Practicality of compensating the loss in the plasmonic waveguides using semiconductor gain medium. Applied Physics Letters, 2012, 100, .	1.5	94
27	Optically pumped four-level infrared laser based on intersubband transitions in multiple quantum wells: feasibility study. IEEE Journal of Quantum Electronics, 1993, 29, 1104-1111.	1.0	91
28	Fundamental limitations in spontaneous emission rate of single-photon sources. Optica, 2016, 3, 1418.	4.8	85
29	Enhancement of luminescence efficiency using surface plasmon polaritons: figures of merit. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 1968.	0.9	84
30	Ultimate limit of field confinement by surface plasmon polaritons. Faraday Discussions, 2015, 178, 109-122.	1.6	84
31	Landau Damping and Limit to Field Confinement and Enhancement in Plasmonic Dimers. ACS Photonics, 2017, 4, 2871-2880.	3.2	84
32	Enhancement of optical properties of nanoscaled objects by metal nanoparticles. Journal of the Optical Society of America B: Optical Physics, 2009, 26, B83.	0.9	79
33	Linearized Mach-Zehnder intensity modulator. IEEE Photonics Technology Letters, 2003, 15, 531-533.	1.3	77
34	The case for quantum plasmonics. Nature Photonics, 2017, 11, 398-400.	15.6	77
35	Fundamental limits of hot carrier injection from metal in nanoplasmonics. Nanophotonics, 2020, 9, 453-471.	2.9	77
36	Backward optical parametric oscillators and amplifiers. IEEE Journal of Quantum Electronics, 1996, 32, 1574-1582.	1.0	76

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37	Plasmonic light-emission enhancement with isolated metal nanoparticles and their coupled arrays. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1748.	0.9	76
38	Adiabatic frequency shifting in epsilon-near-zero materials: the role of group velocity. Optica, 2020, 7, 226.	4.8	76
39	Role of interface roughness in the transport and lasing characteristics of quantum-cascade lasers. Applied Physics Letters, 2009, 94, 091101.	1.5	74
40	Linearized silicon modulator based on a ring assisted Mach Zehnder inteferometer. Optics Express, 2013, 21, 22549.	1.7	73
41	Trace gas Raman spectroscopy using functionalized waveguides. Optica, 2016, 3, 891.	4.8	73
42	Strain-free Geâ•GeSiSn quantum cascade lasers based on L-valley intersubband transitions. Applied Physics Letters, 2007, 90, 251105.	1.5	72
43	Active region design of a terahertz GaN/ Al0.15Ga0.85N quantum cascade laser. Superlattices and Microstructures, 2005, 37, 107-113.	1.4	71
44	Light slowing down in MoirÃ© fiber gratings and its implications for nonlinear optics. Physical Review A, 2000, 62, .	1.0	70
45	Grapheneâ€”A rather ordinary nonlinear optical material. Applied Physics Letters, 2014, 104, .	1.5	68
46	Hot phonon effect on electron velocity saturation in GaN: A second look. Applied Physics Letters, 2007, 91, .	1.5	67
47	Secondâ€order susceptibility of asymmetric coupled quantum well structures. Applied Physics Letters, 1987, 51, 2100-2102.	1.5	66
48	Electron beam pumped lasing in ZnSe/ZnSSe superlattice structuresn grown by molecularâ€beam epitaxy. Journal of Applied Physics, 1987, 62, 3071-3074.	1.1	65
49	Hyperbolic metamaterials: beyond the effective medium theory. Optica, 2016, 3, 1388.	4.8	65
50	Practical limits of absorption enhancement near metal nanoparticles. Applied Physics Letters, 2009, 94, .	1.5	64
51	Plasmonic Hot Carriers-Controlled Second Harmonic Generation in WSe₂ Bilayers. Nano Letters, 2018, 18, 1686-1692.	4.5	64
52	Performance limits of delay lines based on optical amplifiers. Optics Letters, 2006, 31, 948.	1.7	63
53	A new scheme for efficient generation of coherent and incoherent submillimeter to THz waves in periodically-poled lithium niobate. Optics Communications, 1998, 148, 105-109.	1.0	62
54	Backward second-harmonic generation in periodically poled lithium niobate. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1561.	0.9	62

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55	Impact of high-order surface plasmon modes of metal nanoparticles on enhancement of optical emission. Applied Physics Letters, 2009, 95, 171103.	1.5	62
56	Backward second-harmonic and third-harmonic generation in a periodically poled potassium titanyl phosphate waveguide. Optics Letters, 1999, 24, 127.	1.7	61
57	Waveguide-based electro-absorption modulator performance: comparative analysis. Optics Express, 2018, 26, 15445.	1.7	60
58	Self-organized nonlinear gratings for ultrafast nanophotonics. Nature Photonics, 2019, 13, 494-499.	15.6	60
59	Nonlinear epsilon-near-zero materials explained: opinion. Optical Materials Express, 2019, 9, 2793.	1.6	60
60	Optical isolating action in surface plasmon polaritons. Applied Physics Letters, 2006, 89, 251115.	1.5	59
61	Density-dependent electron transport and precise modeling of GaN high electron mobility transistors. Applied Physics Letters, 2015, 107, .	1.5	59
62	Guiding of visible photons at the Ã¥ngstrÃ¶m thickness limit. Nature Nanotechnology, 2019, 14, 844-850.	15.6	58
63	Ultrafast quantum photonics enabled by coupling plasmonic nanocavities to strongly radiative antennas. Optica, 2020, 7, 463.	4.8	58
64	Tunable wideband optical delay line based on balanced coupled resonator structures. Optics Letters, 2009, 34, 2655.	1.7	57
65	Plasmonic enhancement of the third order nonlinear optical phenomena: Figures of merit. Optics Express, 2013, 21, 27460.	1.7	57
66	Electroluminescence efficiency enhancement using metal nanoparticles. Applied Physics Letters, 2008, 93, .	1.5	55
67	How small can â€œNanoâ€•be in a â€œNanolaserâ€?. Nanophotonics, 2012, 1, 3-8.	2.9	55
68	Active material, optical mode and cavity impact on nanoscale electro-optic modulation performance. Nanophotonics, 2017, 7, 455-472.	2.9	55
69	Origin of giant difference between fluorescence, resonance, and nonresonance Raman scattering enhancement by surface plasmons. Physical Review A, 2012, 85, .	1.0	54
70	Randomization of gold nano-brick arrays: a tool for SERS enhancement. Optics Express, 2013, 21, 13502.	1.7	53
71	Attojoule-efficient graphene optical modulators. Applied Optics, 2018, 57, D130.	0.9	53
72	Suppression of cross-gain modulation in SOA using RZ-DPSK modulation format. IEEE Photonics Technology Letters, 2003, 15, 162-164.	1.3	52

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73	Injection pumped single mode surface plasmon generators: threshold, linewidth, and coherence. Optics Express, 2012, 20, 15309.	1.7	52
74	Laser-Rate-Equation Description of Optomechanical Oscillators. Physical Review Letters, 2012, 108, 223904.	2.9	52
75	Replacing noble metals with alternative materials in plasmonics and metamaterials: how good an idea?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160068.	1.6	52
76	The Role of Surface Roughness in Plasmonic-Assisted Internal Photoemission Schottky Photodetectors. ACS Photonics, 2018, 5, 4030-4036.	3.2	52
77	Current induced second harmonic generation in semiconductors. Applied Physics Letters, 1995, 67, 1113-1115.	1.5	51
78	Transversely Pumped Counterpropagating Optical Parametric Oscillation and Amplification. Physical Review Letters, 1995, 75, 429-432.	2.9	51
79	Comparative analysis of optically pumped intersubband lasers and intersubband Raman oscillators. Journal of Applied Physics, 1995, 78, 7398-7400.	1.1	51
80	Low-Loss Continuously Tunable Optical True Time Delay Based on Si3N4 Ring Resonators. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9.	1.9	50
81	Role of bandtail states in laser cooling of semiconductors. Physical Review B, 2008, 77, .	1.1	49
82	Comparative Analysis of Metals and Alternative Infrared Plasmonic Materials. ACS Photonics, 2018, 5, 2541-2548.	3.2	49
83	Cost-effective low timing jitter passively Q-switched diode-pumped solid-state laser with composite pumping pulses. Applied Optics, 2002, 41, 1095.	2.1	48
84	Investigation of 2-b/s/Hz 40-Gb/s DWDM Transmission Over 4>tex<$,times,$>/tex<100 km SMF-28 Fiber Using RZ-DQPSK and Polarization Multiplexing. IEEE Photonics Technology Letters, 2004, 16, 656-658.	1.3	48
85	Fast Thermal Switching of Wideband Optical Delay Line With No Long-Term Transient. IEEE Photonics Technology Letters, 2012, 24, 512-514.	1.3	48
86	Excitonic Emission of Monolayer Semiconductors Near-Field Coupled to High-Q Microresonators. Nano Letters, 2018, 18, 3138-3146.	4.5	48
87	Optical rectification and terahertz emission in semiconductors excited above the band gap. Journal of the Optical Society of America B: Optical Physics, 1994, 11, 2492.	0.9	47
88	Influence of the size dispersion on the emission spectra of the Si nanostructures. Applied Physics Letters, 1996, 69, 1241-1243.	1.5	47
89	Second-harmonic generation based on quasi-phase matching: a novel configuration. Optics Letters, 1996, 21, 1445.	1.7	46
90	Closed-Loop Bias Control of Optical Quadrature Modulator. IEEE Photonics Technology Letters, 2006, 18, 2209-2211.	1.3	46

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91	Surface Plasmon-Assisted Laser Cooling of Solids. Physical Review Letters, 2007, 98, .	2.9	45
92	Dispersion and loss limitations on the performance of optical delay lines based on coupled resonant structures. Optics Letters, 2007, 32, 133.	1.7	45
93	Trace gas absorption spectroscopy using functionalized microring resonators. Optics Letters, 2014, 39, 969.	1.7	45
94	Ultralinear heterogeneously integrated ring-assisted Machâ€“Zehnder interferometer modulator on silicon. Optica, 2016, 3, 1483.	4.8	45
95	Picosecond acoustic phonon pulse propagation in silicon. Physical Review B, 2004, 70, .	1.1	44
96	Importance of interface roughness induced intersubband scattering in mid-infrared quantum cascade lasers. Applied Physics Letters, 2012, 101, .	1.5	44
97	Scaling Rules of SERS Intensity. Advanced Optical Materials, 2014, 2, 382-388.	3.6	44
98	Scaling vectors of attoJoule per bit modulators. Journal of Optics (United Kingdom), 2018, 20, 014012.	1.0	44
99	Heterogeneously integrated ITO plasmonic Machâ€“Zehnder interferometric modulator on SOI. Scientific Reports, 2021, 11, 1287.	1.6	44
100	Fast and Slow Nonlinearities in Epsilonâ€Nearâ€Zero Materials. Laser and Photonics Reviews, 2021, 15, 2000291.	4.4	44
101	Comparative study of field enhancement between isolated and coupled metal nanoparticles: An analytical approach. Applied Physics Letters, 2010, 97, .	1.5	43
102	Ultrafast Thermal Nonlinearity. Scientific Reports, 2016, 5, 17899.	1.6	43
103	Characterization of recombination processes in multiple narrow asymmetric coupled quantum wells based on the dependence of photoluminescence on laser intensity. Applied Physics Letters, 1992, 60, 2051-2053.	1.5	41
104	Excitonic radius in the cavity polariton in the regime of very strong coupling. Solid State Communications, 2001, 117, 307-310.	0.9	41
105	A deterministic guide for material and mode dependence of on-chip electro-optic modulator performance. Solid-State Electronics, 2017, 136, 92-101.	0.8	41
106	Relative merits of phononics vs. plasmonics: the energy balance approach. Nanophotonics, 2018, 7, 305-316.	2.9	41
107	Reversible MoS₂ Origami with Spatially Resolved and Reconfigurable Photosensitivity. Nano Letters, 2019, 19, 7941-7949.	4.5	41
108	Excitation of plasmonic nanoantennas by nonresonant and resonant electron tunnelling. Nanoscale, 2016, 8, 14573-14579.	2.8	40

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109	Absorptive loss and band non-parabolicity as a physical origin of large nonlinearity in epsilon-near-zero materials. Optical Materials Express, 2020, 10, 1545.	1.6	40
110	Ultrabroad-bandwidth electro-optic modulator based on a cascaded Bragg grating. Optics Letters, 2000, 25, 70.	1.7	39
111	Experimental characterization of the separation between wavelength-multiplexed quantum and classical communication channels. Applied Physics Letters, 2005, 87, 174103.	1.5	39
112	Band gap engineering for laser cooling of semiconductors. Journal of Applied Physics, 2006, 100, 113116.	1.1	39
113	Second-Harmonic Generation Induced by Electric Currents in GaAs. Physical Review Letters, 2012, 108, 077403.	2.9	39
114	TiN@TiO₂Coreâ€“Shell Nanoparticles as Plasmonâ€Enhanced Photosensitizers: The Role of Hot Electron Injection. Laser and Photonics Reviews, 2020, 14, 1900376.	4.4	39
115	A model for visible photon emission from reverse-biased silicon p-n junctions. Applied Physics Letters, 1997, 70, 470-471.	1.5	38
116	Coupled-mode theory of field enhancement in complex metal nanostructures. Physical Review B, 2011, 84, .	1.1	37
117	Ultrafast Plasmonic Graphene Photodetector Based on the Channel Photothermoelectric Effect. ACS Photonics, 2020, 7, 488-498.	3.2	37
118	Theory of backward second-harmonic and third-harmonic generation using laser pulses in quasi-phase-matched second-order nonlinear medium. IEEE Journal of Quantum Electronics, 1998, 34, 966-974.	1.0	36
119	Plasmon Enhancement of Luminescence by Metal Nanoparticles. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 110-118.	1.9	36
120	Two-dimensional excitonâ€“polaritonâ€”light guiding by transition metal dichalcogenide monolayers. Optica, 2015, 2, 740.	4.8	35
121	Theory of hot electrons: general discussion. Faraday Discussions, 2019, 214, 245-281.	1.6	34
122	Mechanism for efficient blue secondâ€harmonic generation in periodically segmented waveguides. Applied Physics Letters, 1990, 57, 2540-2542.	1.5	33
123	Roomâ€temperature photopumped blue lasing in ZnSeâ€ZnS0.06Se0.94double heterostructures. Applied Physics Letters, 1991, 59, 310-311.	1.5	33
124	An ITOâ€“graphene heterojunction integrated absorption modulator on Si-photonics for neuromorphic nonlinear activation. APL Photonics, 2021, 6, .	3.0	33
125	Integrated waveguide-DBR microcavity opto-mechanical system. Optics Express, 2011, 19, 21904.	1.7	32
126	Highly linear heterogeneous-integrated Mach-Zehnder interferometer modulators on Si. Optics Express, 2016, 24, 19040.	1.7	32

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127	Exceptional points in polaritonic cavities and subthreshold Fabryâ€“Perot lasers. Optica, 2020, 7, 1015.	4.8	32
128	Inhomogeneous origin of the interface roughness broadening of intersubband transitions. Applied Physics Letters, 2008, 93, 091104.	1.5	31
129	Novel configuration of selfâ€electroâ€optic effect device based on asymmetric quantum wells. Applied Physics Letters, 1988, 53, 779-781.	1.5	29
130	GENERATION OF THE TERAHERZ RADIATION USING Ï‡(3) IN SEMICONDUCTOR. Journal of Nonlinear Optical Physics and Materials, 1995, 04, 163-189.	1.1	29
131	Tunable intersubband Raman laser in GaAs/AlGaAs multiple quantum wells. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 648.	0.9	29
132	Valence intersubband lasers with inverted light-hole effective mass. Applied Physics Letters, 1998, 72, 1481-1483.	1.5	29
133	Ultrafast generation of blue light by efficient second-harmonic generation in periodically-poled bulk and waveguide potassium titanyl phosphate. Applied Physics Letters, 1998, 73, 873-875.	1.5	29
134	Slowing and stopping photons using backward frequency conversion in quasi-phase-matched waveguides. Physical Review A, 2005, 72, .	1.0	29
135	Adiabatically tunable optical delay lines and their performance limitations. Optics Letters, 2005, 30, 2778.	1.7	29
136	Human Life Signs Detection Using High-Sensitivity Pulsed Laser Vibrometer. IEEE Sensors Journal, 2007, 7, 1370-1376.	2.4	29
137	Optically induced currents in dielectrics and semiconductors as a nonlinear optical effect. Journal of the Optical Society of America B: Optical Physics, 2016, 33, C1.	0.9	29
138	Plasmonic silicon Schottky photodetectors: The physics behind graphene enhanced internal photoemission. APL Photonics, 2017, 2, .	3.0	29
139	Electroâ€optical switching and bistability in coupled quantum wells. Applied Physics Letters, 1989, 54, 2589-2591.	1.5	28
140	Continuousâ€wave photoluminescence excitation spectra of multiple narrowâ€stepped quantum wells: Evidence for saturation of interface traps. Applied Physics Letters, 1992, 60, 154-156.	1.5	28
141	On the origin of the second-order nonlinearity in strained Siâ€“SiN structures. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 2494.	0.9	28
142	Linear isolators using wavelength conversion. Optica, 2020, 7, 209.	4.8	28
143	Expanding the Photonic Palette: Exploring High Index Materials. ACS Photonics, 2022, 9, 743-751.	3.2	28
144	Resonant cascaded surface-emitting second-harmonic generation: a strong third-order nonlinear process. Optics Letters, 1994, 19, 1016.	1.7	27

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145	Reducing crosstalk and signal distortion in wavelength-division multiplexing by increasing carrier lifetimes in semiconductor optical amplifiers. Journal of Lightwave Technology, 2003, 21, 1474-1485.	2.7	27
146	From antiâ€Stokes photoluminescence to resonant Raman scattering in GaN single crystals and GaNâ€based heterostructures. Laser and Photonics Reviews, 2012, 6, 660-677.	4.4	27
147	Optimization and Experimental Demonstration of Plasmonic Enhanced Internal Photoemission Silicon Schottky Detectors in the Mid-IR. ACS Photonics, 2017, 4, 1015-1020.	3.2	27
148	Limits of imaging with multilayer hyperbolic metamaterials. Optics Express, 2017, 25, 13588.	1.7	27
149	Efficient up-conversion photoluminescence in all-inorganic lead halide perovskite nanocrystals. Nano Research, 2020, 13, 1962-1969.	5.8	27
150	Secondâ€order nonlinear optical susceptibility inpâ€doped asymmetric quantum wells. Applied Physics Letters, 1993, 62, 1727-1729.	1.5	26
151	Feasibility analysis of phonon lasers. IEEE Journal of Quantum Electronics, 2003, 39, 600-607.	1.0	26
152	Mirrorless magic. Nature Photonics, 2007, 1, 446-447.	15.6	26
153	Mid-infrared difference-frequency generation in suspended GaAs waveguides. Optics Letters, 2014, 39, 945.	1.7	26
154	Highâ€Order Shift Current Induced Terahertz Emission from Inorganic Cesium Bromine Lead Perovskite Engendered by Twoâ€Photon Absorption. Advanced Functional Materials, 2019, 29, 1904694.	7.8	26
155	Nonlinear response of the semiconductor quantum-confined structures near and below the middle of the band gap. Journal of the Optical Society of America B: Optical Physics, 1994, 11, 624.	0.9	25
156	Cascaded optical nonlinearities: Microscopic understanding as a collective effect. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 1977.	0.9	25
157	Ring-assisted frequency discriminator with improved linearity. IEEE Photonics Technology Letters, 2002, 14, 1136-1138.	1.3	25
158	Upconversion Due to Optical-Phonon-Assisted Anti-Stokes Photoluminescence in Bulk GaN. ACS Photonics, 2015, 2, 628-632.	3.2	25
159	Generating Hot Carriers in Plasmonic Nanoparticles: When Quantization Does Matter?. ACS Photonics, 2020, 7, 547-553.	3.2	25
160	Microcavity effect on the electron-hole relative motion in semiconductor quantum wells. Physical Review B, 2003, 68, .	1.1	24
161	Low-loss suspended quantum well waveguides. Optics Express, 2008, 16, 2621.	1.7	24
162	Spoof plasmon waveguide enabled ultrathin room temperature THz GaN quantum cascade laser: a feasibility study. Optics Express, 2013, 21, 28054.	1.7	24

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163	Low kappa, narrow bandwidth Si_3N_4 Bragg gratings. Optics Express, 2015, 23, 30329.	1.7	24
164	How Do the Purcell Factor, the Qâ€Factor, and the Beta Factor Affect the Laser Threshold?. Laser and Photonics Reviews, 2021, 15, 2000250.	4.4	24
165	Integrated Coherent Tunable Laser (ICTL) With Ultra-Wideband Wavelength Tuning and Sub-100 Hz Lorentzian Linewidth. Journal of Lightwave Technology, 2022, 40, 1802-1809.	2.7	24
166	100ÂGHz micrometer-compact broadband monolithic ITO Machâ€“Zehnder interferometer modulator enabling 3500 times higher packing density. Nanophotonics, 2022, 11, 4001-4009.	2.9	24
167	Largeâ€scale quantum well domain structures. Journal of Applied Physics, 1988, 64, 5026-5029.	1.1	23
168	Spectral measurement of the nonlinear refractive index in ZnSe using self-bending of a pulsed laser beam. Optics Letters, 1990, 15, 1431.	1.7	22
169	Twoâ€photon absorption and nonresonant nonlinear index of refraction in the intersubband transitions in the quantum wells. Applied Physics Letters, 1993, 62, 126-128.	1.5	22
170	Cavity-enhaced and quasi-phase-matched optical frequency doublers in surface-emitting geometry. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 1586.	0.9	22
171	Pulsed-laser vibrometer using photoelectromotive-force sensors. Applied Physics Letters, 2003, 83, 1893-1895.	1.5	22
172	Investigation of SOA Nonlinearities on the Amplification of DWDM Channels With Spectral Efficiency Up to 2.5 b/s/Hz. IEEE Photonics Technology Letters, 2004, 16, 918-920.	1.3	22
173	Theory of optical emission enhancement by coupled metal nanoparticles: An analytical approach. Applied Physics Letters, 2011, 98, .	1.5	22
174	Amplified spontaneous emission of phonons as a likely mechanism for density-dependent velocity saturation in GaN transistors. Applied Physics Express, 2016, 9, 094101.	1.1	22
175	Comparative analysis of the intersubband versus bandâ€toâ€band transitions in quantum wells. Applied Physics Letters, 1993, 62, 1390-1392.	1.5	21
176	Two-photon-induced fluorescence of biological markers based on optical fibers. Optics Letters, 1995, 20, 2054.	1.7	21
177	Guided-mode phonon-polaritons in suspended waveguides. Physical Review B, 2012, 86, .	1.1	21
178	Dynamics of hot electron generation in metallic nanostructures: general discussion. Faraday Discussions, 2019, 214, 123-146.	1.6	21
179	On-Chip Ultrafast Plasmonic Graphene Hot Electron Bolometric Photodetector. ACS Omega, 2020, 5, 14711-14719.	1.6	21
180	Excitonic enhancement of two-photon absorption in semiconductor quantum-well structures. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 1222.	0.9	20

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181	Reduced crosstalk semiconductor optical amplifiers based on Type-II quantum wells. IEEE Photonics Technology Letters, 2002, 14, 278-280.	1.3	20
182	Evidence of hot electrons generated from an AlNâ•GaN high electron mobility transistor. Applied Physics Letters, 2008, 92, 013513.	1.5	20
183	Impact of disorder on surface plasmons in two-dimensional arrays of metal nanoparticles. Applied Physics Letters, 2009, 94, .	1.5	20
184	On the origin of nonlocal damping in plasmonic monomers and dimers. International Journal of Modern Physics B, 2017, 31, 1740005.	1.0	20
185	Power dissipation in slow light devices: a comparative analysis. Optics Letters, 2007, 32, 163.	1.7	19
186	Demonstration of a mode-conversion cavity addâ€“drop filter. Optics Letters, 2011, 36, 2230.	1.7	19
187	Patients With Urinary Bladder Paragangliomas: A Compiled Case Series From a Literature Review for Clinical Management. Urology, 2015, 85, e25-e29.	0.5	19
188	Emulating exceptional-point encirclements using imperfect (leaky) photonic components: asymmetric mode-switching and omni-polarizer action. Optica, 2021, 8, 563.	4.8	19
189	Transversely-pumped counter-propagating optical parametric oscillators and amplifiers: conversion efficiencies and tuning ranges. IEEE Journal of Quantum Electronics, 1995, 31, 1648-1658.	1.0	18
190	Compact linearized optical FM discriminator. IEEE Photonics Technology Letters, 2002, 14, 384-386.	1.3	18
191	Isotope disorder of phonons in GaN and its beneficial effect on high power field effect transistors. Applied Physics Letters, 2008, 93, 032110.	1.5	18
192	Third-order nonlinear plasmonic materials: Enhancement and limitations. Physical Review A, 2013, 88, .	1.0	18
193	Suspended photonic waveguide devices. Applied Optics, 2015, 54, F164.	2.1	18
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