Kerry J Vahala

List of Publications by Year in Descending Order

180 papers	17,723 citations	62 h-index	132 g-index
234 ext. papers	22,304 ext. citations	9.8 avg, IF	7.25 L-index

#	Paper	IF	Citations
180	Architecture for microcomb-based GHz-mid-infrared dual-comb spectroscopy. *Nature Communications*, **2021**, 12, 6573	17.4	7
179	High-performance lasers for fully integrated silicon nitride photonics. *Nature Communications*, **2021** , 12, 6650	17.4	11
178	Dispersive-wave induced noise limits in miniature soliton microwave sources. *Nature Communications*, **2021**, 12, 1442	17.4	10
177	Towards milli-Hertz laser frequency noise on a chip **2021**,		2
176	Oscillatory motion of a counterpropagating Kerr soliton dimer. *Physical Review A*, **2021**, 103,	2.6	3
175	Quantum diffusion of microcavity solitons. *Nature Physics*, **2021**, 17, 462-466	16.2	9
174	Hertz-linewidth semiconductor lasers using CMOS-ready ultra-high-Q microresonators. *Nature Photonics*, **2021**, 15, 346-353	33.9	69
173	Reaching fiber-laser coherence in integrated photonics. *Optics Letters*, **2021**, 46, 5201-5204	3	10
172	Integrated turnkey soliton microcombs. *Nature*, **2020**, 582, 365-369	50.4	111
171	Direct Kerr frequency comb atomic spectroscopy and stabilization. *Science Advances*, **2020**, 6, eaax6230	14.3	23
170	Petermann-factor sensitivity limit near an exceptional point in a Brillouin ring laser gyroscope. *Nature Communications*, **2020**, 11, 1610	17.4	37
169	Ultra-efficient frequency comb generation in AlGaAs-on-insulator microresonators. *Nature Communications*, **2020**, 11, 1331	17.4	77
168	Earth rotation measured by a chip-scale ring laser gyroscope. *Nature Photonics*, **2020**, 14, 345-349	33.9	56
167	Dissipated Kerr Solitons in Optical Microresonators **2020**, 79-123		
166	Greater than one billion Q factor for on-chip microresonators. *Optics Letters*, **2020**, 45, 5129-5131	3	32
165	Interleaved difference-frequency generation for microcomb spectral densification in the mid-infrared. *Optica*, **2020**, 7, 309	8.6	12
164	Linewidth enhancement factor in a microcavity Brillouin laser. *Optica*, **2020**, 7, 1150	8.6	9

163	Dirac solitons in optical microresonators. *Light: Science and Applications*, **2020**, 9, 205	16.7	2
162	Optical frequency combs: Coherently uniting the electromagnetic spectrum. *Science*, **2020**, 369,	33.3	93
161	Microresonator soliton dual-comb imaging. *Optica*, **2019**, 6, 1110	8.6	19
160	Directly pumped 10 GHz microcomb modules from low-power diode lasers. *Optics Letters*, **2019**, 44, 1841-1843	3	11
159	Architecture for the photonic integration of an optical atomic clock. *Optica*, **2019**, 6, 680	8.6	153
158	Towards Integrated Microcomb Systems for Hertz-Scale Accuracy Optical Signal Generation **2019**,		2
157	Vernier spectrometer using counterpropagating soliton microcombs. *Science*, **2019**, 363, 965-968	33.3	39
156	Self-starting bi-chromatic LiNbO3 soliton microcomb. *Optica*, **2019**, 6, 1138	8.6	121
155	Observation of the exceptional-point-enhanced Sagnac effect. *Nature*, **2019**, 576, 65-69	50.4	97
154	Searching for Exoplanets Using a Microresonator Astrocomb. *Nature Photonics*, **2019**, 13, 25-30	33.9	107
153	Soliton microcomb range measurement. *Science*, **2018**, 359, 884-887	33.3	219
152	An optical-frequency synthesizer using integrated photonics. *Nature*, **2018**, 557, 81-85	50.4	297
151	Micro-Resonator Soliton Generated Directly with a Diode Laser. *Laser and Photonics Reviews*, **2018**, 12, 1700307	8.3	17
150	Bridging ultrahigh-Q devices and photonic circuits. *Nature Photonics*, **2018**, 12, 297-302	33.9	94
149	Universal isocontours for dissipative Kerr solitons. *Optics Letters*, **2018**, 43, 2567-2570	3	3
148	Gigahertz-repetition-rate soliton microcombs. *Optica*, **2018**, 5, 65	8.6	57
147	Kerr-microresonator solitons from a chirped background. *Optica*, **2018**, 5, 1304	8.6	30
146	Imaging soliton dynamics in optical microcavities. *Nature Communications*, **2018**, 9, 3565	17.4	36

145	The planet formation imager. *Experimental Astronomy*, **2018**, 46, 517-529	1.3	9
144	Coherent ultra-violet to near-infrared generation in silica ridge waveguides. *Nature Communications*, **2017**, 8, 13922	17.4	50
143	Single-mode dispersive waves and soliton microcomb dynamics. *Nature Communications*, **2017**, 8, 14869	17.4	75
142	Phonon-Limited-Linewidth of Brillouin Lasers at Cryogenic Temperatures. *Physical Review Letters*, **2017**, 119, 143901	7.4	17
141	Counter-propagating solitons in microresonators. *Nature Photonics*, **2017**, 11, 560-564	33.9	77
140	Towards visible soliton microcomb generation. *Nature Communications*, **2017**, 8, 1295	17.4	53
139	Stokes solitons in optical microcavities. *Nature Physics*, **2017**, 13, 53-57	16.2	95
138	Ultra-low phase-noise microwave oscillator based on electro-optical frequency division **2017**,		3
137	Fiber taper characterization by optical backscattering reflectometry. *Optics Express*, **2017**, 25, 22312-22327	3.3	10
136	Microresonator Brillouin gyroscope. *Optica*, **2017**, 4, 346	8.6	120
135	Towards an Integrated-Photonics Optical-Frequency Synthesizer With **2017**,		5
134	Theory and measurement of the soliton self-frequency shift and efficiency in optical microcavities. *Optics Letters*, **2016**, 41, 3419-22	3	58
133	Phase-coherent microwave-to-optical link with a self-referenced microcomb. *Nature Photonics*, **2016**, 10, 516-520	33.9	97
132	Broadband dispersion-engineered microresonator on a chip. *Nature Photonics*, **2016**, 10, 316-320	33.9	64
131	Microresonator Soliton Dual-Comb Spectroscopy **2016**,		2
130	Spatial-mode-interaction-induced dispersive waves and their active tuning in microresonators. *Optica*, **2016**, 3, 1132	8.6	41
129	Ultra-High-Q Silica-on-Silicon Ridge-Ring-Resonator with an Integrated Silicon Nitride Waveguide **2016**,		1
128	Active capture and stabilization of temporal solitons in microresonators. *Optics Letters*, **2016**, 41, 2037-40	3	86

127	Microresonator soliton dual-comb spectroscopy. *Science*, **2016**, 354, 600-603	33.3	342
126	Dual-microcavity narrow-linewidth Brillouin laser. *Optica*, **2015**, 2, 225	8.6	67
125	Soliton frequency comb at microwave rates in a high-Q silica microresonator. *Optica*, **2015**, 2, 1078	8.6	271
124	Electro-optical frequency division and stable microwave synthesis. *Science*, **2014**, 345, 309-13	33.3	77
123	Low-noise Brillouin laser on a chip at 1064 nm. *Optics Letters*, **2014**, 39, 287-90	3	44
122	Supercontinuum generation in an on-chip silica waveguide. *Optics Letters*, **2014**, 39, 1046-8	3	50
121	Microresonator frequency comb optical clock. *Optica*, **2014**, 1, 10	8.6	229
120	Design and characterization of whispering-gallery spiral waveguides. *Optics Express*, **2014**, 22, 5196-208	3.3	14
119	Pump frequency noise coupling into a microcavity by thermo-optic locking. *Optics Express*, **2014**, 22, 14559-67	3.3	10
118	Microwave synthesizer using an on-chip Brillouin oscillator. *Nature Communications*, **2013**, 4, 2097	17.4	175
117	Spiral resonators for on-chip laser frequency stabilization. *Nature Communications*, **2013**, 4, 2468	17.4	61
116	Thermal stress in silica-on-silicon disk resonators. *Applied Physics Letters*, **2013**, 102, 031113	3.4	12
115	Ultra-low-loss delay lines and resonators on a silicon chip **2012**,		1
114	Low-pump-power, low-phase-noise, and microwave to millimeter-wave repetition rate operation in microcombs. *Physical Review Letters*, **2012**, 109, 233901	7.4	116
113	Ultra-low-loss optical delay line on a silicon chip. *Nature Communications*, **2012**, 3, 867	17.4	128
112	Chemically etched ultrahigh-Q wedge-resonator on a silicon chip. *Nature Photonics*, **2012**, 6, 369-373	33.9	386
111	Characterization of a high coherence, Brillouin microcavity laser on silicon. *Optics Express*, **2012**, 20, 20170-80	3.3	94
110	Sideband spectroscopy and dispersion measurement in microcavities. *Optics Express*, **2012**, 20, 26337-44	3.3	46

109	A general design algorithm for low optical loss adiabatic connections in waveguides. *Optics Express*, **2012**, 20, 22819-29	3.3	26
108	Compensation of thermal nonlinearity effect in optical resonators. *Optics Express*, **2011**, 19, 7365-72	3.3	25
107	High sensitivity nanoparticle detection using optical microcavities. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 5976-9	11.5	221
106	Coherent mixing of mechanical excitations in nano-optomechanical structures. *Nature Photonics*, **2010**, 4, 236-242	33.9	193
105	Phonon laser action in a tunable two-level system. *Physical Review Letters*, **2010**, 104, 083901	7.4	318
104	An Optomechanical Oscillator on a Silicon Chip. *IEEE Journal of Selected Topics in Quantum Electronics*, **2010**, 16, 276-287	3.8	60
103	High-Q surface-plasmon-polariton whispering-gallery microcavity. *Nature*, **2009**, 457, 455-8	50.4	365
102	A picogram- and nanometre-scale photonic-crystal optomechanical cavity. *Nature*, **2009**, 459, 550-5	50.4	478
101	Optomechanical crystals. *Nature*, **2009**, 462, 78-82	50.4	725
100	On-chip green silica upconversion microlaser. *Optics Letters*, **2009**, 34, 482-4	3	38
99	Yb-doped glass microcavity laser operation in water. *Optics Letters*, **2009**, 34, 1153-5	3	23
98	Thermal instability of a compound resonator. *Optics Express*, **2009**, 17, 14088-97	3.3	22
97	Direct imaging of tunneling from a potential well. *Optics Express*, **2009**, 17, 19160-5	3.3	16
96	Modeling dispersive coupling and losses of localized optical and mechanical modes in optomechanical crystals. *Optics Express*, **2009**, 17, 20078-98	3.3	63
95	High-Q double-disk microcavities for cavity optomechanics. *Optics Express*, **2009**, 17, 20911-9	3.3	62
94	Mechanical oscillation and cooling actuated by the optical gradient force. *Physical Review Letters*, **2009**, 103, 103601	7.4	129
93	Photonic RF Down-Converter Based on Optomechanical Oscillation. *IEEE Photonics Technology Letters*, **2008**, 20, 234-236	2.2	30
92	Observation of injection locking in an optomechanical rf oscillator. *Applied Physics Letters*, **2008**, 93, 191115	3.5	33

91	Back-action limit of linewidth in an optomechanical oscillator. *Physical Review A*, **2008**, 78,	2.6	42
90	Static envelope patterns in composite resonances generated by level crossing in optical toroidal microcavities. *Physical Review Letters*, **2008**, 100, 103905	7.4	59
89	Soft lithographic fabrication of high Q polymer microcavity arrays. *Nano Letters*, **2007**, 7, 1823-6	11.5	52
88	Importance of Intrinsic- Q in Microring-Based Optical Filters and Dispersion-Compensation Devices. *IEEE Photonics Technology Letters*, **2007**, 19, 1045-1047	2.2	10
87	Label-free, single-molecule detection with optical microcavities. *Science*, **2007**, 317, 783-7	33.3	847
86	Visible continuous emission from a silica microphotonic device by third-harmonic generation. *Nature Physics*, **2007**, 3, 430-435	16.2	168
85	Modal spectroscopy of optoexcited vibrations of a micron-scale on-chip resonator at greater than 1 GHz frequency. *Physical Review Letters*, **2007**, 98, 123901	7.4	71
84	Chaotic quivering of micron-scaled on-chip resonators excited by centrifugal optical pressure. *Physical Review Letters*, **2007**, 98, 167203	7.4	113
83	Visible submicron microdisk lasers. *Applied Physics Letters*, **2007**, 90, 111119	3.4	68
82	Observation of optical spring effect in a microtoroidal optomechanical resonator. *Optics Letters*, **2007**, 32, 1611-3	3	41
81	Ultralow-threshold Yb(3+):SiO(2) glass laser fabricated by the solgel process. *Optics Letters*, **2007**, 32, 2650-2	3	28
80	Free ultra-high-Q microtoroid: a tool for designing photonic devices. *Optics Express*, **2007**, 15, 166-75	3.3	47
79	Wavelength-independent coupler from fiber to an on-chip cavity, demonstrated over an 850nm span. *Optics Express*, **2007**, 15, 7677-81	3.3	16
78	Cavity opto-mechanics. *Optics Express*, **2007**, 15, 17172-205	3.3	543
77	Ultralow threshold on-chip microcavity nanocrystal quantum dot lasers. *Applied Physics Letters*, **2006**, 89, 191124	3.4	70
76	Brownian noise in radiation-pressure-driven micromechanical oscillators. *Applied Physics Letters*, **2006**, 89, 261109	3.4	21
75	Characterization of a radiation-pressure-driven micromechanical oscillator. *Physical Review A*, **2006**, 74,	2.6	67
74	Transmission characteristics of a Fabry-Perot etalon-microtoroid resonator coupled system. *Optics Letters*, **2006**, 31, 510-2	3	43

73	Heavy water detection using ultra-high-Q microcavities. *Optics Letters*, **2006**, 31, 1896-8	3	195
72	Fiber-taper coupling to Whispering-Gallery modes of fluidic resonators embedded in a liquid medium. *Optics Express*, **2006**, 14, 10800-10	3.3	52
71	Controlled transition between parametric and Raman oscillations in ultrahigh-Q silica toroidal microcavities. *Applied Physics Letters*, **2005**, 87, 181109	3.4	28
70	Feedback control of ultra-high-Q microcavities: application to micro-Raman lasers and microparametric oscillators. *Optics Express*, **2005**, 13, 3558-66	3.3	42
69	Observation of Kerr nonlinearity in microcavities at room temperature. *Optics Letters*, **2005**, 30, 427-9	3	53
68	Micro-Molded High Q Polymer Resonators for Optical Loss Determination. *Materials Research Society Symposia Proceedings*, **2005**, 872, 1		1
67	Temporal behavior of radiation-pressure-induced vibrations of an optical microcavity phonon mode. *Physical Review Letters*, **2005**, 94, 223902	7.4	359
66	Electrical thermo-optic tuning of ultrahigh-Q microtoroid resonators. *Applied Physics Letters*, **2004**, 85, 5439-5441	3.4	88
65	FABRICATION, COUPLING AND NONLINEAR OPTICS OF ULTRA-HIGH-Q MICRO-SPHERE AND CHIP-BASED TOROID MICROCAVITIES. *Advanced Series in Applied Physics*, **2004**, 177-238		
64	Dynamical thermal behavior and thermal self-stability of microcavities. *Optics Express*, **2004**, 12, 4742-50	3.3	530
63	Replica-molded high-Q polymer microresonators. *Optics Letters*, **2004**, 29, 533-5	3	40
62	Optical microcavities. *Nature*, **2003**, 424, 839-46	50.4	3373
61	Compact, fiber-compatible, cascaded Raman laser. *Optics Letters*, **2003**, 28, 1507-9	3	70
60	Highly efficient hybrid fiber taper coupled microsphere laser. *Optics Letters*, **2001**, 26, 884-6	3	56
59	Highly efficient optical power transfer to whispering-gallery modes by use of a symmetrical dual-coupling configuration. *Optics Letters*, **2000**, 25, 260-2	3	64
58	Observation of critical coupling in a fiber taper to a silica-microsphere whispering-gallery mode system. *Physical Review Letters*, **2000**, 85, 74-7	7.4	623
57	Four-wave mixing mediated by the capture of electrons and holes in semiconductor quantum-well laser amplifiers. *Applied Physics Letters*, **1997**, 71, 3601-3603	3.4	1
56	Measurement of the interwell carrier transport lifetime in multiquantum-well optical amplifiers by polarization-resolved four-wave mixing. *Applied Physics Letters*, **1996**, 69, 4142-4144	3.4	9

55	Size classification of silicon nanocrystals. *Applied Physics Letters*, **1996**, 68, 3162-3164	3.4	55
54	Highly nondegenerate four-wave mixing efficiency of an asymmetric coupled quantum well structure. *Applied Physics Letters*, **1995**, 66, 2619-2621	3.4	6
53	Synthesis of Size-Classified Silicon Nanocrystals. *Materials Research Society Symposia Proceedings*, **1995**, 405, 259		0
52	Study of interwell carrier transport by terahertz four-wave mixing in an optical amplifier with tensile and compressively strained quantum wells. *Applied Physics Letters*, **1994**, 65, 1897-1899	3.4	11
51	Formation of Highly-Uniform and Densely-Packed Arrays of GaAs Dots by Selective Epitaxy. *Materials Research Society Symposia Proceedings*, **1994**, 358, 969		1
50	Quantum Technology: Quantum Well Lasers . Peter S. Zory, Jr., Ed. Academic Press, San Diego, CA, 1993. xvi, 504 pp., illus. $75 or £57. Quantum Electronics.. *Science*, **1994**, 263, 699-699	33.3	
49	Terahertz four-wave mixing spectroscopy for study of ultrafast dynamics in a semiconductor optical amplifier. *Applied Physics Letters*, **1993**, 63, 1179-1181	3.4	70
48	Synthesis of luminescent silicon clusters by spark ablation. *Applied Physics Letters*, **1993**, 63, 1549-1551	3.4	31
47	Direct determination of the ambipolar diffusion length in strained InxGa1−xAs/InP quantum wells by cathodoluminescence. *Applied Physics Letters*, **1993**, 62, 2411-2412	3.4	8
46	Highly nondegenerate four-wave mixing and gain nonlinearity in a strained multiple-quantum-well optical amplifier. *Applied Physics Letters*, **1993**, 62, 2301-2303	3.4	26
45	Frequency locking of an erbium-doped fiber ring laser to an external fiber Fabry - Perot resonator. *Optics Letters*, **1993**, 18, 879	3	22
44	Reduction of the intensity noise from an erbium-doped fiber laser to the standard quantum limit by intracavity spectral filtering. *Applied Physics Letters*, **1992**, 61, 1889-1891	3.4	21
43	Co-lasing in an electrically tunable erbium-doped fiber laser. *Applied Physics Letters*, **1992**, 60, 3090-3092	3.4	10
42	Measurements of the intensity noise of a broadly tunable, erbium-doped fiber ring laser, relative to the standard quantum limit. *Applied Physics Letters*, **1992**, 60, 2583-2585	3.4	7
41	Facet modulation selective epitaxy□ technique for quantum-well wire doublet fabrication. *Applied Physics Letters*, **1992**, 60, 240-242	3.4	24
40	Large (14.5 dB) reduction of intensity noise from a semiconductor laser by amplitude-phase decorrelation. *Applied Physics Letters*, **1992**, 60, 1289-1291	3.4	2
39	Resonance-enhanced spontaneous emission from quantum dots. *Journal of Applied Physics*, **1992**, 72, 806-808	2.5	10
38	Vapor phase synthesis of crystalline nanometer-scale GaAs clusters. *Applied Physics Letters*, **1992**, 60, 950-952	3.4	36

37	Semiconductor lasers and fiber lasers for fiber-optic telecommunications. *Fiber and Integrated Optics*, **1992**, 11, 221-234	0.8	1
36	Nanometer-scale GaAs clusters from organometallic precursors. *Applied Physics Letters*, **1992**, 61, 696-698	3.4	44
35	Linewidth and frequency jitter measurement of an erbium-doped fiber ring laser by using a loss-compensated, delayed self-heterodyne interferometer. *Optics Letters*, **1992**, 17, 1274-6	3	21
34	Approximate expressions for modulation speed and threshold for performance optimization of biaxially compressive strain quantum-well lasers. *Applied Physics Letters*, **1991**, 59, 3230-3232	3.4	5
33	Polarization dependence of optical absorption and emission in quantum wires. *Physical Review B*, **1991**, 44, 5681-5691	3.3	92
32	Fabrication of semiconductor quantum dots. *Journal of Aerosol Science*, **1991**, 22, S31-S33	4.3	11
31	All fiber, low threshold, widely tunable single-frequency, erbium-doped fiber ring laser with a tandem fiber Fabry□Perot filter. *Applied Physics Letters*, **1991**, 59, 2369-2371	3.4	100
30	Application of a total-angular-momentum basis to quantum-dot band structure. *Physical Review Letters*, **1990**, 65, 239-242	7.4	54
29	Application of selective epitaxy to fabrication of nanometer scale wire and dot structures. *Applied Physics Letters*, **1990**, 56, 2642-2644	3.4	114
28	Intensity noise reduction in semiconductor lasers by amplitude-phase decorrelation. *Applied Physics Letters*, **1990**, 57, 974-976	3.4	14
27	Type II broken-gap quantum wires and quantum dot arrays: A novel concept for self-doping semiconductor nanostructures. *Applied Physics Letters*, **1990**, 57, 1569-1571	3.4	4
26	Analytical technique for determining the polarization dependence of optical matrix elements in quantum wires with band-coupling effects. *Applied Physics Letters*, **1990**, 57, 545-547	3.4	81
25	Self-quenching of fundamental phase and amplitude noise in semiconductor lasers with dispersive loss. *Optics Letters*, **1990**, 15, 1359-61	3	13
24	Analytical formalism for determining quantum-wire and quantum-dot band structure in the multiband envelope-function approximation. *Physical Review B*, **1990**, 42, 3690-3710	3.3	280
23	Cathodoluminescence system for a scanning electron microscope using an optical fiber for light collection. *Review of Scientific Instruments*, **1989**, 60, 226-230	1.7	19
22	Low-temperature measurement of the fundamental frequency response of a semiconductor laser by active-layer photomixing. *Applied Physics Letters*, **1989**, 54, 600-602	3.4	8
21	Quantitative measurement of the composition of AlxGa1□As heterostructures using a simple backscattered electron detector. *Review of Scientific Instruments*, **1989**, 60, 3775-3778	1.7	1
20	Cathodoluminescence measurement of an orientation dependent aluminum concentration in AlxGa1□As epilayers grown by molecular beam epitaxy on a nonplanar substrate. *Applied Physics Letters*, **1989**, 54, 1347-1349	3.4	31

19	The optical gain lever: A novel gain mechanism in the direct modulation of quantum well semiconductor lasers. *Applied Physics Letters*, **1989**, 54, 2506-2508	3.4	57
18	Compositional modulation in AlxGa1−xAs epilayers grown by molecular beam epitaxy on the (111) facets of grooves in a nonplanar substrate. *Applied Physics Letters*, **1989**, 55, 53-55	3.4	31
17	Nanometer scale wire structures fabricated by diffusion-induced selective disordering of a GaAs(AlGaAs) quantum well. *Applied Physics Letters*, **1989**, 54, 2692-2694	3.4	10
16	Measurement of the fundamental modulation response of a semiconductor laser to millimeter wave frequencies by active-layer photomixing. *Applied Physics Letters*, **1989**, 55, 939-941	3.4	4
15	Field spectrum anisotropy in multiple quantum-well semiconductor lasers subjected to high magnetic fields. *Superlattices and Microstructures*, **1988**, 4, 507-510	2.8	
14	Equivalent circuit model for active-layer photomixing: Parasitic-free modulation of semiconductor lasers. *Applied Physics Letters*, **1988**, 53, 1141-1143	3.4	5
13	Effect of doping on the optical gain and the spontaneous noise enhancement factor in quantum well amplifiers and lasers studied by simple analytical expressions. *Applied Physics Letters*, **1988**, 52, 1945-1947	3.4	102
12	Parasitic-free measurement of the fundamental frequency response of a semiconductor laser by active-layer photomixing. *Applied Physics Letters*, **1988**, 52, 770-772	3.4	30
11	Cathodoluminescence of oval defects in GaAs/AlxGa1−xAs epilayers using an optical fiber light collection system. *Applied Physics Letters*, **1988**, 53, 2062-2064	3.4	7
10	Reduction of the field spectrum linewidth of a multiple quantum well laser in a high magnetic field□pectral properties of quantum dot lasers. *Applied Physics Letters*, **1987**, 50, 365-367	3.4	19
9	Narrow linewidth, single frequency semiconductor laser with a phase conjugate external cavity mirror. *Applied Physics Letters*, **1986**, 49, 1563-1565	3.4	60
8	Corrections to the rate equation approximation for dynamic considerations in a semiconductor laser. *Applied Physics Letters*, **1986**, 48, 1340-1341	3.4	8
7	Observation of modulation speed enhancement, frequency modulation suppression, and phase noise reduction by detuned loading in a coupled-cavity semiconductor laser. *Applied Physics Letters*, **1985**, 46, 1025-1027	3.4	36
6	Application of an electronic wave-packet formalism to local-operator equations of motion for semiconductor lasers. *Physical Review A*, **1985**, 32, 345-356	2.6	7
5	Quantum noise and dynamics in quantum well and quantum wire lasers. *Applied Physics Letters*, **1984**, 45, 950-952	3.4	199
4	Detuned loading in coupled cavity semiconductor lasers□ffect on quantum noise and dynamics. *Applied Physics Letters*, **1984**, 45, 501-503	3.4	87
3	Measurement of the linewidth enhancement factor □f semiconductor lasers. *Applied Physics Letters*, **1983**, 42, 328-330	3.4	198
2	Occupation fluctuation noise: A fundamental source of linewidth broadening in semiconductor lasers. *Applied Physics Letters*, **1983**, 43, 140-142	3.4	46

1 Image-plane holograms for introductory physics students. *American Journal of Physics*, **1978**, 46, 861-861.7