

Kerry J Vahala

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8034801/kerry-j-vahala-publications-by-citations.pdf>

Version: 2024-04-26

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.

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	Optical microcavities. <i>Nature</i> , 2003 , 424, 839-46	50.4	3373
179	Label-free, single-molecule detection with optical microcavities. <i>Science</i> , 2007 , 317, 783-7	33.3	847
178	Optomechanical crystals. <i>Nature</i> , 2009 , 462, 78-82	50.4	725
177	Observation of critical coupling in a fiber taper to a silica-microsphere whispering-gallery mode system. <i>Physical Review Letters</i> , 2000 , 85, 74-7	7.4	623
176	Cavity opto-mechanics. <i>Optics Express</i> , 2007 , 15, 17172-205	3.3	543
175	Dynamical thermal behavior and thermal self-stability of microcavities. <i>Optics Express</i> , 2004 , 12, 4742-50	3.3	530
174	A picogram- and nanometre-scale photonic-crystal optomechanical cavity. <i>Nature</i> , 2009 , 459, 550-5	50.4	478
173	Chemically etched ultrahigh-Q wedge-resonator on a silicon chip. <i>Nature Photonics</i> , 2012 , 6, 369-373	33.9	386
172	High-Q surface-plasmon-polariton whispering-gallery microcavity. <i>Nature</i> , 2009 , 457, 455-8	50.4	365
171	Temporal behavior of radiation-pressure-induced vibrations of an optical microcavity phonon mode. <i>Physical Review Letters</i> , 2005 , 94, 223902	7.4	359
170	Microresonator soliton dual-comb spectroscopy. <i>Science</i> , 2016 , 354, 600-603	33.3	342
169	Phonon laser action in a tunable two-level system. <i>Physical Review Letters</i> , 2010 , 104, 083901	7.4	318
168	An optical-frequency synthesizer using integrated photonics. <i>Nature</i> , 2018 , 557, 81-85	50.4	297
167	Analytical formalism for determining quantum-wire and quantum-dot band structure in the multiband envelope-function approximation. <i>Physical Review B</i> , 1990 , 42, 3690-3710	3.3	280
166	Soliton frequency comb at microwave rates in a high-Q silica microresonator. <i>Optica</i> , 2015 , 2, 1078	8.6	271
165	Microresonator frequency comb optical clock. <i>Optica</i> , 2014 , 1, 10	8.6	229
164	High sensitivity nanoparticle detection using optical microcavities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 5976-9	11.5	221

163	Soliton microcomb range measurement. <i>Science</i> , 2018 , 359, 884-887	33.3	219
162	Quantum noise and dynamics in quantum well and quantum wire lasers. <i>Applied Physics Letters</i> , 1984 , 45, 950-952	3.4	199
161	Measurement of the linewidth enhancement factor of semiconductor lasers. <i>Applied Physics Letters</i> , 1983 , 42, 328-330	3.4	198
160	Heavy water detection using ultra-high-Q microcavities. <i>Optics Letters</i> , 2006 , 31, 1896-8	3	195
159	Coherent mixing of mechanical excitations in nano-optomechanical structures. <i>Nature Photonics</i> , 2010 , 4, 236-242	33.9	193
158	Microwave synthesizer using an on-chip Brillouin oscillator. <i>Nature Communications</i> , 2013 , 4, 2097	17.4	175
157	Visible continuous emission from a silica microphotonic device by third-harmonic generation. <i>Nature Physics</i> , 2007 , 3, 430-435	16.2	168
156	Architecture for the photonic integration of an optical atomic clock. <i>Optica</i> , 2019 , 6, 680	8.6	153
155	Mechanical oscillation and cooling actuated by the optical gradient force. <i>Physical Review Letters</i> , 2009 , 103, 103601	7.4	129
154	Ultra-low-loss optical delay line on a silicon chip. <i>Nature Communications</i> , 2012 , 3, 867	17.4	128
153	Self-starting bi-chromatic LiNbO3 soliton microcomb. <i>Optica</i> , 2019 , 6, 1138	8.6	121
152	Microresonator Brillouin gyroscope. <i>Optica</i> , 2017 , 4, 346	8.6	120
151	Low-pump-power, low-phase-noise, and microwave to millimeter-wave repetition rate operation in microcombs. <i>Physical Review Letters</i> , 2012 , 109, 233901	7.4	116
150	Application of selective epitaxy to fabrication of nanometer scale wire and dot structures. <i>Applied Physics Letters</i> , 1990 , 56, 2642-2644	3.4	114
149	Chaotic quivering of micron-scaled on-chip resonators excited by centrifugal optical pressure. <i>Physical Review Letters</i> , 2007 , 98, 167203	7.4	113
148	Integrated turnkey soliton microcombs. <i>Nature</i> , 2020 , 582, 365-369	50.4	111
147	Searching for Exoplanets Using a Microresonator Astrocomb. <i>Nature Photonics</i> , 2019 , 13, 25-30	33.9	107
146	Effect of doping on the optical gain and the spontaneous noise enhancement factor in quantum well amplifiers and lasers studied by simple analytical expressions. <i>Applied Physics Letters</i> , 1988 , 52, 1943-1947 ¹⁰²	3.4	102

145	All fiber, low threshold, widely tunable single-frequency, erbium-doped fiber ring laser with a tandem fiber FabryPerot filter. <i>Applied Physics Letters</i> , 1991 , 59, 2369-2371	3.4	100
144	Phase-coherent microwave-to-optical link with a self-referenced microcomb. <i>Nature Photonics</i> , 2016 , 10, 516-520	33.9	97
143	Observation of the exceptional-point-enhanced Sagnac effect. <i>Nature</i> , 2019 , 576, 65-69	50.4	97
142	Stokes solitons in optical microcavities. <i>Nature Physics</i> , 2017 , 13, 53-57	16.2	95
141	Bridging ultrahigh-Q devices and photonic circuits. <i>Nature Photonics</i> , 2018 , 12, 297-302	33.9	94
140	Characterization of a high coherence, Brillouin microcavity laser on silicon. <i>Optics Express</i> , 2012 , 20, 20170380	33.3	94
139	Optical frequency combs: Coherently uniting the electromagnetic spectrum. <i>Science</i> , 2020 , 369,	33.3	93
138	Polarization dependence of optical absorption and emission in quantum wires. <i>Physical Review B</i> , 1991 , 44, 5681-5691	3.3	92
137	Electrical thermo-optic tuning of ultrahigh-Q microtoroid resonators. <i>Applied Physics Letters</i> , 2004 , 85, 5439-5441	3.4	88
136	Detuned loading in coupled cavity semiconductor lasersEffect on quantum noise and dynamics. <i>Applied Physics Letters</i> , 1984 , 45, 501-503	3.4	87
135	Active capture and stabilization of temporal solitons in microresonators. <i>Optics Letters</i> , 2016 , 41, 2037-40	33.3	86
134	Analytical technique for determining the polarization dependence of optical matrix elements in quantum wires with band-coupling effects. <i>Applied Physics Letters</i> , 1990 , 57, 545-547	3.4	81
133	Ultra-efficient frequency comb generation in AlGaAs-on-insulator microresonators. <i>Nature Communications</i> , 2020 , 11, 1331	17.4	77
132	Electro-optical frequency division and stable microwave synthesis. <i>Science</i> , 2014 , 345, 309-13	33.3	77
131	Counter-propagating solitons in microresonators. <i>Nature Photonics</i> , 2017 , 11, 560-564	33.9	77
130	Single-mode dispersive waves and soliton microcomb dynamics. <i>Nature Communications</i> , 2017 , 8, 14869	17.4	75
129	Modal spectroscopy of optoexcited vibrations of a micron-scale on-chip resonator at greater than 1 GHz frequency. <i>Physical Review Letters</i> , 2007 , 98, 123901	7.4	71
128	Ultralow threshold on-chip microcavity nanocrystal quantum dot lasers. <i>Applied Physics Letters</i> , 2006 , 89, 191124	3.4	70

127	Compact, fiber-compatible, cascaded Raman laser. <i>Optics Letters</i> , 2003 , 28, 1507-9	3	70
126	Terahertz four-wave mixing spectroscopy for study of ultrafast dynamics in a semiconductor optical amplifier. <i>Applied Physics Letters</i> , 1993 , 63, 1179-1181	3.4	70
125	Hertz-linewidth semiconductor lasers using CMOS-ready ultra-high-Q microresonators. <i>Nature Photonics</i> , 2021 , 15, 346-353	33.9	69
124	Visible submicron microdisk lasers. <i>Applied Physics Letters</i> , 2007 , 90, 111119	3.4	68
123	Dual-microcavity narrow-linewidth Brillouin laser. <i>Optica</i> , 2015 , 2, 225	8.6	67
122	Characterization of a radiation-pressure-driven micromechanical oscillator. <i>Physical Review A</i> , 2006 , 74,	2.6	67
121	Broadband dispersion-engineered microresonator on a chip. <i>Nature Photonics</i> , 2016 , 10, 316-320	33.9	64
120	Highly efficient optical power transfer to whispering-gallery modes by use of a symmetrical dual-coupling configuration. <i>Optics Letters</i> , 2000 , 25, 260-2	3	64
119	Modeling dispersive coupling and losses of localized optical and mechanical modes in optomechanical crystals. <i>Optics Express</i> , 2009 , 17, 20078-98	3.3	63
118	High-Q double-disk microcavities for cavity optomechanics. <i>Optics Express</i> , 2009 , 17, 20911-9	3.3	62
117	Spiral resonators for on-chip laser frequency stabilization. <i>Nature Communications</i> , 2013 , 4, 2468	17.4	61
116	An Optomechanical Oscillator on a Silicon Chip. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 276-287	3.8	60
115	Narrow linewidth, single frequency semiconductor laser with a phase conjugate external cavity mirror. <i>Applied Physics Letters</i> , 1986 , 49, 1563-1565	3.4	60
114	Static envelope patterns in composite resonances generated by level crossing in optical toroidal microcavities. <i>Physical Review Letters</i> , 2008 , 100, 103905	7.4	59
113	Theory and measurement of the soliton self-frequency shift and efficiency in optical microcavities. <i>Optics Letters</i> , 2016 , 41, 3419-22	3	58
112	Gigahertz-repetition-rate soliton microcombs. <i>Optica</i> , 2018 , 5, 65	8.6	57
111	The optical gain lever: A novel gain mechanism in the direct modulation of quantum well semiconductor lasers. <i>Applied Physics Letters</i> , 1989 , 54, 2506-2508	3.4	57
110	Earth rotation measured by a chip-scale ring laser gyroscope. <i>Nature Photonics</i> , 2020 , 14, 345-349	33.9	56

109	Highly efficient hybrid fiber taper coupled microsphere laser. <i>Optics Letters</i> , 2001 , 26, 884-6	3	56
108	Size classification of silicon nanocrystals. <i>Applied Physics Letters</i> , 1996 , 68, 3162-3164	3-4	55
107	Application of a total-angular-momentum basis to quantum-dot band structure. <i>Physical Review Letters</i> , 1990 , 65, 239-242	7-4	54
106	Towards visible soliton microcomb generation. <i>Nature Communications</i> , 2017 , 8, 1295	17.4	53
105	Observation of Kerr nonlinearity in microcavities at room temperature. <i>Optics Letters</i> , 2005 , 30, 427-9	3	53
104	Soft lithographic fabrication of high Q polymer microcavity arrays. <i>Nano Letters</i> , 2007 , 7, 1823-6	11.5	52
103	Fiber-taper coupling to Whispering-Gallery modes of fluidic resonators embedded in a liquid medium. <i>Optics Express</i> , 2006 , 14, 10800-10	3-3	52
102	Coherent ultra-violet to near-infrared generation in silica ridge waveguides. <i>Nature Communications</i> , 2017 , 8, 13922	17.4	50
101	Supercontinuum generation in an on-chip silica waveguide. <i>Optics Letters</i> , 2014 , 39, 1046-8	3	50
100	Free ultra-high-Q microtoroid: a tool for designing photonic devices. <i>Optics Express</i> , 2007 , 15, 166-75	3-3	47
99	Sideband spectroscopy and dispersion measurement in microcavities. <i>Optics Express</i> , 2012 , 20, 26337-44	3,3	46
98	Occupation fluctuation noise: A fundamental source of linewidth broadening in semiconductor lasers. <i>Applied Physics Letters</i> , 1983 , 43, 140-142	3-4	46
97	Low-noise Brillouin laser on a chip at 1064 nm. <i>Optics Letters</i> , 2014 , 39, 287-90	3	44
96	Nanometer-scale GaAs clusters from organometallic precursors. <i>Applied Physics Letters</i> , 1992 , 61, 696-698	3-4	44
95	Transmission characteristics of a Fabry-Perot etalon-microtoroid resonator coupled system. <i>Optics Letters</i> , 2006 , 31, 510-2	3	43
94	Back-action limit of linewidth in an optomechanical oscillator. <i>Physical Review A</i> , 2008 , 78,	2.6	42
93	Feedback control of ultra-high-Q microcavities: application to micro-Raman lasers and microparametric oscillators. <i>Optics Express</i> , 2005 , 13, 3558-66	3-3	42
92	Observation of optical spring effect in a microtoroidal optomechanical resonator. <i>Optics Letters</i> , 2007 , 32, 1611-3	3	41

91	Spatial-mode-interaction-induced dispersive waves and their active tuning in microresonators. <i>Optica</i> , 2016 , 3, 1132	8.6	41
90	Replica-molded high-Q polymer microresonators. <i>Optics Letters</i> , 2004 , 29, 533-5	3	40
89	Vernier spectrometer using counterpropagating soliton microcombs. <i>Science</i> , 2019 , 363, 965-968	33.3	39
88	On-chip green silica upconversion microlaser. <i>Optics Letters</i> , 2009 , 34, 482-4	3	38
87	Petermann-factor sensitivity limit near an exceptional point in a Brillouin ring laser gyroscope. <i>Nature Communications</i> , 2020 , 11, 1610	17.4	37
86	Vapor phase synthesis of crystalline nanometer-scale GaAs clusters. <i>Applied Physics Letters</i> , 1992 , 60, 950-952	3.4	36
85	Observation of modulation speed enhancement, frequency modulation suppression, and phase noise reduction by detuned loading in a coupled-cavity semiconductor laser. <i>Applied Physics Letters</i> , 1985 , 46, 1025-1027	3.4	36
84	Imaging soliton dynamics in optical microcavities. <i>Nature Communications</i> , 2018 , 9, 3565	17.4	36
83	Observation of injection locking in an optomechanical rf oscillator. <i>Applied Physics Letters</i> , 2008 , 93, 1911-1915	3.4	33
82	Greater than one billion Q factor for on-chip microresonators. <i>Optics Letters</i> , 2020 , 45, 5129-5131	3	32
81	Synthesis of luminescent silicon clusters by spark ablation. <i>Applied Physics Letters</i> , 1993 , 63, 1549-1551	3.4	31
80	Cathodoluminescence measurement of an orientation dependent aluminum concentration in Al _x Ga _{1-x} As epilayers grown by molecular beam epitaxy on a nonplanar substrate. <i>Applied Physics Letters</i> , 1989 , 54, 1347-1349	3.4	31
79	Compositional modulation in Al _x Ga _{1-x} As epilayers grown by molecular beam epitaxy on the (111) facets of grooves in a nonplanar substrate. <i>Applied Physics Letters</i> , 1989 , 55, 53-55	3.4	31
78	Photonic RF Down-Converter Based on Optomechanical Oscillation. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 234-236	2.2	30
77	Parasitic-free measurement of the fundamental frequency response of a semiconductor laser by active-layer photomixing. <i>Applied Physics Letters</i> , 1988 , 52, 770-772	3.4	30
76	Kerr-microresonator solitons from a chirped background. <i>Optica</i> , 2018 , 5, 1304	8.6	30
75	Ultralow-threshold Yb(3+):SiO(2) glass laser fabricated by the solgel process. <i>Optics Letters</i> , 2007 , 32, 2650-2	3	28
74	Controlled transition between parametric and Raman oscillations in ultrahigh-Q silica toroidal microcavities. <i>Applied Physics Letters</i> , 2005 , 87, 1811-1819	3.4	28

73	A general design algorithm for low optical loss adiabatic connections in waveguides. <i>Optics Express</i> , 2012 , 20, 22819-29	3.3	26
72	Highly nondegenerate four-wave mixing and gain nonlinearity in a strained multiple-quantum-well optical amplifier. <i>Applied Physics Letters</i> , 1993 , 62, 2301-2303	3.4	26
71	Compensation of thermal nonlinearity effect in optical resonators. <i>Optics Express</i> , 2011 , 19, 7365-72	3.3	25
70	Facet modulation selective epitaxy technique for quantum-well wire doublet fabrication. <i>Applied Physics Letters</i> , 1992 , 60, 240-242	3.4	24
69	Direct Kerr frequency comb atomic spectroscopy and stabilization. <i>Science Advances</i> , 2020 , 6, eaax6230	14.3	23
68	Yb-doped glass microcavity laser operation in water. <i>Optics Letters</i> , 2009 , 34, 1153-5	3	23
67	Thermal instability of a compound resonator. <i>Optics Express</i> , 2009 , 17, 14088-97	3.3	22
66	Frequency locking of an erbium-doped fiber ring laser to an external fiber Fabry - Perot resonator. <i>Optics Letters</i> , 1993 , 18, 879	3	22
65	Brownian noise in radiation-pressure-driven micromechanical oscillators. <i>Applied Physics Letters</i> , 2006 , 89, 261109	3.4	21
64	Reduction of the intensity noise from an erbium-doped fiber laser to the standard quantum limit by intracavity spectral filtering. <i>Applied Physics Letters</i> , 1992 , 61, 1889-1891	3.4	21
63	Linewidth and frequency jitter measurement of an erbium-doped fiber ring laser by using a loss-compensated, delayed self-heterodyne interferometer. <i>Optics Letters</i> , 1992 , 17, 1274-6	3	21
62	Microresonator soliton dual-comb imaging. <i>Optica</i> , 2019 , 6, 1110	8.6	19
61	Cathodoluminescence system for a scanning electron microscope using an optical fiber for light collection. <i>Review of Scientific Instruments</i> , 1989 , 60, 226-230	1.7	19
60	Reduction of the field spectrum linewidth of a multiple quantum well laser in a high magnetic field spectral properties of quantum dot lasers. <i>Applied Physics Letters</i> , 1987 , 50, 365-367	3.4	19
59	Phonon-Limited-Linewidth of Brillouin Lasers at Cryogenic Temperatures. <i>Physical Review Letters</i> , 2017 , 119, 143901	7.4	17
58	Micro-Resonator Soliton Generated Directly with a Diode Laser. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1700307	8.3	17
57	Direct imaging of tunneling from a potential well. <i>Optics Express</i> , 2009 , 17, 19160-5	3.3	16
56	Wavelength-independent coupler from fiber to an on-chip cavity, demonstrated over an 850nm span. <i>Optics Express</i> , 2007 , 15, 7677-81	3.3	16

55	Design and characterization of whispering-gallery spiral waveguides. <i>Optics Express</i> , 2014 , 22, 5196-208	3,3	14
54	Intensity noise reduction in semiconductor lasers by amplitude-phase decorrelation. <i>Applied Physics Letters</i> , 1990 , 57, 974-976	3-4	14
53	Self-quenching of fundamental phase and amplitude noise in semiconductor lasers with dispersive loss. <i>Optics Letters</i> , 1990 , 15, 1359-61	3	13
52	Thermal stress in silica-on-silicon disk resonators. <i>Applied Physics Letters</i> , 2013 , 102, 031113	3-4	12
51	Interleaved difference-frequency generation for microcomb spectral densification in the mid-infrared. <i>Optica</i> , 2020 , 7, 309	8.6	12
50	Study of interwell carrier transport by terahertz four-wave mixing in an optical amplifier with tensile and compressively strained quantum wells. <i>Applied Physics Letters</i> , 1994 , 65, 1897-1899	3-4	11
49	Fabrication of semiconductor quantum dots. <i>Journal of Aerosol Science</i> , 1991 , 22, S31-S33	4-3	11
48	Directly pumped 10 GHz microcomb modules from low-power diode lasers. <i>Optics Letters</i> , 2019 , 44, 1841-1843	3	11
47	High-performance lasers for fully integrated silicon nitride photonics. <i>Nature Communications</i> , 2021 , 12, 6650	17.4	11
46	Fiber taper characterization by optical backscattering reflectometry. <i>Optics Express</i> , 2017 , 25, 22312-22323	3,3	10
45	Pump frequency noise coupling into a microcavity by thermo-optic locking. <i>Optics Express</i> , 2014 , 22, 14559-67	3,3	10
44	Importance of Intrinsic- $\chi^{(2)}$ in Microring-Based Optical Filters and Dispersion-Compensation Devices. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1045-1047	2.2	10
43	Co-lasing in an electrically tunable erbium-doped fiber laser. <i>Applied Physics Letters</i> , 1992 , 60, 3090-3092	3,4	10
42	Resonance-enhanced spontaneous emission from quantum dots. <i>Journal of Applied Physics</i> , 1992 , 72, 806-808	2.5	10
41	Nanometer scale wire structures fabricated by diffusion-induced selective disordering of a GaAs(AlGaAs) quantum well. <i>Applied Physics Letters</i> , 1989 , 54, 2692-2694	3-4	10
40	Dispersive-wave induced noise limits in miniature soliton microwave sources. <i>Nature Communications</i> , 2021 , 12, 1442	17.4	10
39	Reaching fiber-laser coherence in integrated photonics. <i>Optics Letters</i> , 2021 , 46, 5201-5204	3	10
38	Measurement of the interwell carrier transport lifetime in multi-quantum-well optical amplifiers by polarization-resolved four-wave mixing. <i>Applied Physics Letters</i> , 1996 , 69, 4142-4144	3-4	9

37	Linewidth enhancement factor in a microcavity Brillouin laser. <i>Optica</i> , 2020 , 7, 1150	8.6	9
36	Quantum diffusion of microcavity solitons. <i>Nature Physics</i> , 2021 , 17, 462-466	16.2	9
35	The planet formation imager. <i>Experimental Astronomy</i> , 2018 , 46, 517-529	1.3	9
34	Direct determination of the ambipolar diffusion length in strained In _x Ga _{1-x} As/InP quantum wells by cathodoluminescence. <i>Applied Physics Letters</i> , 1993 , 62, 2411-2412	3.4	8
33	Low-temperature measurement of the fundamental frequency response of a semiconductor laser by active-layer photomixing. <i>Applied Physics Letters</i> , 1989 , 54, 600-602	3.4	8
32	Corrections to the rate equation approximation for dynamic considerations in a semiconductor laser. <i>Applied Physics Letters</i> , 1986 , 48, 1340-1341	3.4	8
31	Measurements of the intensity noise of a broadly tunable, erbium-doped fiber ring laser, relative to the standard quantum limit. <i>Applied Physics Letters</i> , 1992 , 60, 2583-2585	3.4	7
30	Cathodoluminescence of oval defects in GaAs/Al _x Ga _{1-x} As epilayers using an optical fiber light collection system. <i>Applied Physics Letters</i> , 1988 , 53, 2062-2064	3.4	7
29	Application of an electronic wave-packet formalism to local-operator equations of motion for semiconductor lasers. <i>Physical Review A</i> , 1985 , 32, 345-356	2.6	7
28	Architecture for microcomb-based GHz-mid-infrared dual-comb spectroscopy. <i>Nature Communications</i> , 2021 , 12, 6573	17.4	7
27	Highly nondegenerate four-wave mixing efficiency of an asymmetric coupled quantum well structure. <i>Applied Physics Letters</i> , 1995 , 66, 2619-2621	3.4	6
26	Approximate expressions for modulation speed and threshold for performance optimization of biaxially compressive strain quantum-well lasers. <i>Applied Physics Letters</i> , 1991 , 59, 3230-3232	3.4	5
25	Equivalent circuit model for active-layer photomixing: Parasitic-free modulation of semiconductor lasers. <i>Applied Physics Letters</i> , 1988 , 53, 1141-1143	3.4	5
24	Towards an Integrated-Photonics Optical-Frequency Synthesizer With 2017 ,		5
23	Measurement of the fundamental modulation response of a semiconductor laser to millimeter wave frequencies by active-layer photomixing. <i>Applied Physics Letters</i> , 1989 , 55, 939-941	3.4	4
22	Type II broken-gap quantum wires and quantum dot arrays: A novel concept for self-doping semiconductor nanostructures. <i>Applied Physics Letters</i> , 1990 , 57, 1569-1571	3.4	4
21	Universal isocontours for dissipative Kerr solitons. <i>Optics Letters</i> , 2018 , 43, 2567-2570	3	3
20	Ultra-low phase-noise microwave oscillator based on electro-optical frequency division 2017 ,		3

19	Oscillatory motion of a counterpropagating Kerr soliton dimer. <i>Physical Review A</i> , 2021 , 103,	2.6	3
18	Large (14.5 dB) reduction of intensity noise from a semiconductor laser by amplitude-phase decorrelation. <i>Applied Physics Letters</i> , 1992 , 60, 1289-1291	3.4	2
17	Microresonator Soliton Dual-Comb Spectroscopy 2016 ,		2
16	Towards Integrated Microcomb Systems for Hertz-Scale Accuracy Optical Signal Generation 2019 ,		2
15	Dirac solitons in optical microresonators. <i>Light: Science and Applications</i> , 2020 , 9, 205	16.7	2
14	Towards milli-Hertz laser frequency noise on a chip 2021 ,		2
13	Ultra-low-loss delay lines and resonators on a silicon chip 2012 ,		1
12	Four-wave mixing mediated by the capture of electrons and holes in semiconductor quantum-well laser amplifiers. <i>Applied Physics Letters</i> , 1997 , 71, 3601-3603	3.4	1
11	Micro-Molded High Q Polymer Resonators for Optical Loss Determination. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 872, 1		1
10	Formation of Highly-Uniform and Densely-Packed Arrays of GaAs Dots by Selective Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 358, 969		1
9	Semiconductor lasers and fiber lasers for fiber-optic telecommunications. <i>Fiber and Integrated Optics</i> , 1992 , 11, 221-234	0.8	1
8	Quantitative measurement of the composition of Al _x Ga _{1-x} As heterostructures using a simple backscattered electron detector. <i>Review of Scientific Instruments</i> , 1989 , 60, 3775-3778	1.7	1
7	Ultra-High-Q Silica-on-Silicon Ridge-Ring-Resonator with an Integrated Silicon Nitride Waveguide 2016 ,		1
6	Synthesis of Size-Classified Silicon Nanocrystals. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 405, 259		0
5	FABRICATION, COUPLING AND NONLINEAR OPTICS OF ULTRA-HIGH-Q MICRO-SPHERE AND CHIP-BASED TOROID MICROCAVITIES. <i>Advanced Series in Applied Physics</i> , 2004 , 177-238		
4	Field spectrum anisotropy in multiple quantum-well semiconductor lasers subjected to high magnetic fields. <i>Superlattices and Microstructures</i> , 1988 , 4, 507-510	2.8	
3	Image-plane holograms for introductory physics students. <i>American Journal of Physics</i> , 1978 , 46, 861-861	0.7	
2	Dissipated Kerr Solitons in Optical Microresonators 2020 , 79-123		

- 1 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

333