

Andrey B Matsko

List of Publications by Year in descending order

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309
papers

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310
docs citations

310
times ranked

6784
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical resonators with whispering-gallery modes-part I: basics. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 3-14.	2.9	617
2	Conversion of conventional gravitational-wave interferometers into quantum nondemolition interferometers by modifying their input and/or output optics. Physical Review D, 2001, 65, .	4.7	536
3	Optical resonators with whispering-gallery modes-part II: applications. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 15-32.	2.9	491
4	Probing 10^{-14} K stability and residual drifts in the cross-polarized dual-mode stabilization of single-crystal ultrahigh-Q optical resonators. Light: Science and Applications, 2019, 8, 1.	16.6	413
5	High spectral purity Kerr frequency comb radio frequency photonic oscillator. Nature Communications, 2015, 6, 7957.	12.8	388
6	Nonlinear Optics and Crystalline Whispering Gallery Mode Cavities. Physical Review Letters, 2004, 92, 043903.	7.8	372
7	Tunable Optical Frequency Comb with a Crystalline Whispering Gallery Mode Resonator. Physical Review Letters, 2008, 101, 093902.	7.8	320
8	Optical resonators with ten million finesse. Optics Express, 2007, 15, 6768.	3.4	285
9	Brillouin Lasing with a CaF_2 Whispering Gallery Mode Resonator. Physical Review Letters, 2009, 102, 043902.		274
10	Ultralow noise miniature external cavity semiconductor laser. Nature Communications, 2015, 6, 7371.	12.8	237
11	Tunable delay line with interacting whispering-gallery-mode resonators. Optics Letters, 2004, 29, 626.	3.3	228
12	Nonlinear and quantum optics with whispering gallery resonators. Journal of Optics (United Kingdom), 2005, 10, 225.	2.2	225
13	Chasing the thermodynamical noise limit in whispering-gallery-mode resonators for ultrastable laser frequency stabilization. Nature Communications, 2017, 8, 8.	12.8	224
14	Low Threshold Optical Oscillations in a Whispering Gallery Mode CaF_2 Resonator. Physical Review Letters, 2004, 93, 243905.	7.8	220
15	Whispering-gallery-mode-resonator-based ultranarrow linewidth external-cavity semiconductor laser. Optics Letters, 2010, 35, 2822.	3.3	212
16	Kilohertz optical resonances in dielectric crystal cavities. Physical Review A, 2004, 70, .	2.5	204
17	Mode-locked Kerr frequency combs. Optics Letters, 2011, 36, 2845.	3.3	204
18	Transporting and Time Reversing Light via Atomic Coherence. Physical Review Letters, 2002, 88, 103601.	7.8	190

#	ARTICLE	IF	CITATIONS
19	Slow, Ultraslow, Stored, and Frozen Light. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2001, , 191-242.	2.3	179
20	Ultra high Q crystalline microcavities. <i>Optics Communications</i> , 2006, 265, 33-38.	2.1	158
21	Whispering-gallery-mode electro-optic modulator and photonic microwave receiver. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 333.	2.1	157
22	Optical hyperparametric oscillations in a whispering-gallery-mode resonator: Threshold and phase diffusion. <i>Physical Review A</i> , 2005, 71, .	2.5	156
23	Whispering-gallery-mode resonators as frequency references I Fundamental limitations. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 1324.	2.1	155
24	Mode-Locked Ultrashort Pulse Generation from On-Chip Normal Dispersion Microresonators. <i>Physical Review Letters</i> , 2015, 114, 053901.	7.8	140
25	Resonant microphotonic gyroscope. <i>Optica</i> , 2017, 4, 114.	9.3	140
26	Nonlinear conversion efficiency in Kerr frequency comb generation. <i>Optics Letters</i> , 2014, 39, 6126.	3.3	125
27	Generation of near-infrared frequency combs from a MgF ₂ whispering gallery mode resonator. <i>Optics Letters</i> , 2011, 36, 2290.	3.3	117
28	Kerr combs with selectable central frequency. <i>Nature Photonics</i> , 2011, 5, 293-296.	31.4	112
29	Optical gyroscope with whispering gallery mode optical cavities. <i>Optics Communications</i> , 2004, 233, 107-112.	2.1	104
30	Whispering-gallery-mode resonators as frequency references II Stabilization. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 2988.	2.1	103
31	Kerr frequency comb generation in overmoded resonators. <i>Optics Express</i> , 2012, 20, 27290.	3.4	95
32	Generation of a coherent near-infrared Kerr frequency comb in a monolithic microresonator with normal GVD. <i>Optics Letters</i> , 2014, 39, 2920.	3.3	82
33	Vacuum squeezing in atomic media via self-rotation. <i>Physical Review A</i> , 2002, 66, .	2.5	78
34	Stabilizing an optoelectronic microwave oscillator with photonic filters. <i>Journal of Lightwave Technology</i> , 2003, 21, 3052-3061.	4.6	76
35	Radiation Trapping in Coherent Media. <i>Physical Review Letters</i> , 2001, 87, 133601.	7.8	75
36	On timing jitter of mode locked Kerr frequency combs. <i>Optics Express</i> , 2013, 21, 28862.	3.4	74

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37	Normal group-velocity dispersion Kerr frequency comb. <i>Optics Letters</i> , 2012, 37, 43.	3.3	73
38	Observation of a three-photon electromagnetically induced transparency in hot atomic vapor. <i>Physical Review A</i> , 2002, 65, .	2.5	72
39	High-order tunable filters based on a chain of coupled crystalline whispering gallery-mode resonators. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 136-138.	2.5	72
40	Phase noise of whispering gallery photonic hyper-parametric microwave oscillators. <i>Optics Express</i> , 2008, 16, 4130.	3.4	69
41	Sub-microwatt photonic microwave receiver. <i>IEEE Photonics Technology Letters</i> , 2002, 14, 1602-1604.	2.5	67
42	Generation of Kerr combs centered at $45\ \mu\text{m}$ in crystalline microresonators pumped with quantum-cascade lasers. <i>Optics Letters</i> , 2015, 40, 3468.	3.3	67
43	Chaotic dynamics of frequency combs generated with continuously pumped nonlinear microresonators. <i>Optics Letters</i> , 2013, 38, 525.	3.3	65
44	On excitation of breather solitons in an optical microresonator. <i>Optics Letters</i> , 2012, 37, 4856.	3.3	63
45	Noise in gravitational-wave detectors and other classical-force measurements is not influenced by test-mass quantization. <i>Physical Review D</i> , 2003, 67, .	4.7	62
46	Optical lattice trap for Kerr solitons. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	61
47	Efficient upconversion of subterahertz radiation in a high-Q whispering gallery resonator. <i>Optics Letters</i> , 2009, 34, 713.	3.3	59
48	Stabilization of a Kerr frequency comb oscillator. <i>Optics Letters</i> , 2013, 38, 2636.	3.3	59
49	Resonant enhancement of high-order optical nonlinearities based on atomic coherence. <i>Physical Review A</i> , 2002, 65, .	2.5	58
50	High-order dispersion in Kerr comb oscillators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 715.	2.1	58
51	Miniature multi-octave light source based on a monolithic microcavity. <i>Optica</i> , 2015, 2, 40.	9.3	57
52	Optomechanics with Surface-Acoustic-Wave Whispering-Gallery Modes. <i>Physical Review Letters</i> , 2009, 103, 257403.	7.8	56
53	Anomalous Stimulated Brillouin Scattering via Ultraslow Light. <i>Physical Review Letters</i> , 2001, 86, 2006-2009.	7.8	55
54	Low-threshold parametric nonlinear optics with quasi-phase-matched whispering-gallery modes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 1304.	2.1	55

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55	Passively Mode-Locked Raman Laser. <i>Physical Review Letters</i> , 2010, 105, 143903.	7.8	55
56	Parametric oscillations in a whispering gallery resonator. <i>Optics Letters</i> , 2007, 32, 157.	3.3	54
57	Dispersion compensation in whispering-gallery modes. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 157.	1.5	53
58	On the dynamic range of optical delay lines based on coherent atomic media. <i>Optics Express</i> , 2005, 13, 2210.	3.4	53
59	Surface acoustic wave opto-mechanical oscillator and frequency comb generator. <i>Optics Letters</i> , 2011, 36, 3338.	3.3	53
60	Hard and soft excitation regimes of Kerr frequency combs. <i>Physical Review A</i> , 2012, 85, .	2.5	53
61	Tunable filter based on whispering gallery modes. <i>Electronics Letters</i> , 2003, 39, 389.	1.0	52
62	Tunable optical single-sideband modulator with complete sideband suppression. <i>Optics Letters</i> , 2009, 34, 1300.	3.3	52
63	Using Slow Light to Enhance Acousto-optical Effects: Application to Squeezed Light. <i>Physical Review Letters</i> , 2000, 84, 5752-5755.	7.8	48
64	Lasing without inversion via decay-induced coherence. <i>Physical Review A</i> , 2001, 65, .	2.5	48
65	Morphology-dependent photonic circuit elements. <i>Optics Letters</i> , 2006, 31, 1313.	3.3	48
66	Optical Cherenkov radiation in overmoded microresonators. <i>Optics Letters</i> , 2016, 41, 2907.	3.3	47
67	Quartic dissipative solitons in optical Kerr cavities. <i>Optics Letters</i> , 2019, 44, 3086.	3.3	47
68	Microwave whispering-gallery resonator for efficient optical up-conversion. <i>Physical Review A</i> , 2009, 80, .	2.5	45
69	All-optical dissipative discrete time crystals. <i>Nature Communications</i> , 2022, 13, 848.	12.8	44
70	Nonlinear magneto-optical rotation of elliptically polarized light. <i>Physical Review A</i> , 2003, 67, .	2.5	41
71	Noise conversion in Kerr comb RF photonic oscillators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 232.	2.1	41
72	Optimization of Laser Stabilization via Self-Injection Locking to a Whispering-Gallery-Mode Microresonator. <i>Physical Review Applied</i> , 2020, 14, .	3.8	41

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73	Whispering Gallery Resonators for Studying Orbital Angular Momentum of a Photon. <i>Physical Review Letters</i> , 2005, 95, 143904.	7.8	40
74	Ringdown spectroscopy of stimulated Raman scattering in a whispering gallery mode resonator. <i>Optics Letters</i> , 2007, 32, 497.	3.3	40
75	Narrowband tunable photonic notch filter. <i>Optics Letters</i> , 2009, 34, 1318.	3.3	40
76	Calligraphic poling of Lithium Niobate. <i>Optics Express</i> , 2005, 13, 3408.	3.4	39
77	Microcavity-stabilized Quantum Cascade Laser. <i>Laser and Photonics Reviews</i> , 2016, 10, 153-157.	8.7	39
78	Towards chip-scale optical frequency synthesis based on optical heterodyne phase-locked loop. <i>Optics Express</i> , 2017, 25, 681.	3.4	39
79	A low-noise photonic heterodyne synthesizer and its application to millimeter-wave radar. <i>Nature Communications</i> , 2021, 12, 4397.	12.8	39
80	Enhancement of photorefraction in whispering gallery mode resonators. <i>Physical Review B</i> , 2006, 74, .	3.2	38
81	On Frequency Combs in Monolithic Resonators. <i>Nanophotonics</i> , 2016, 5, 363-391.	6.0	38
82	White-light whispering gallery mode resonators. <i>Optics Letters</i> , 2006, 31, 92.	3.3	37
83	Voltage-controlled photonic oscillator. <i>Optics Letters</i> , 2010, 35, 1572.	3.3	37
84	On the fundamental limits of Q factor of crystalline dielectric resonators. <i>Optics Express</i> , 2007, 15, 3390.	3.4	36
85	Sensitivity of terahertz photonic receivers. <i>Physical Review A</i> , 2008, 77, .	2.5	36
86	Compact stabilized semiconductor laser for frequency metrology. <i>Applied Optics</i> , 2015, 54, 3353.	2.1	36
87	Enabling arbitrary wavelength frequency combs on chip. <i>Laser and Photonics Reviews</i> , 2016, 10, 158-162.	8.7	36
88	Four-Wave Mixing of Optical and Microwave Fields. <i>Physical Review Letters</i> , 2002, 89, 103601.	7.8	35
89	Optical Ramsey fringes induced by Zeeman coherence. <i>Physical Review A</i> , 2001, 65, .	2.5	34
90	Direct observation of stopped light in a whispering-gallery-mode microresonator. <i>Physical Review A</i> , 2007, 76, .	2.5	34

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91	Low-loss prism-waveguide optical coupling for ultrahigh-Q low-index monolithic resonators. <i>Optica</i> , 2018, 5, 219.	9.3	33
92	On cavity modification of stimulated Raman scattering. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2003, 5, 272-278.	1.4	32
93	Mode filtering in optical whispering gallery resonators. <i>Electronics Letters</i> , 2005, 41, 495.	1.0	32
94	Crystal quartz optical whispering-gallery resonators. <i>Optics Letters</i> , 2008, 33, 1569.	3.3	32
95	Whispering gallery mode diamond resonator. <i>Optics Letters</i> , 2013, 38, 4320.	3.3	32
96	Orthogonally polarized frequency comb generation from a Kerr comb via cross-phase modulation. <i>Optics Letters</i> , 2019, 44, 1472.	3.3	32
97	Theory of coupled optoelectronic microwave oscillator II: phase noise. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 3316.	2.1	30
98	Quantum diffusion of microcavity solitons. <i>Nature Physics</i> , 2021, 17, 462-466.	16.7	30
99	Electromagnetic-induced transparency and amplification of electromagnetic waves in photonic band-gap materials. <i>Physical Review A</i> , 1998, 57, 4919-4924.	2.5	29
100	Resonant Widely Tunable Opto-Electronic Oscillator. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1535-1538.	2.5	29
101	Improving engine efficiency by extracting laser energy from hot exhaust gas. <i>Physical Review A</i> , 2003, 67, .	2.5	28
102	Whispering gallery mode based optoelectronic microwave oscillator. <i>Journal of Modern Optics</i> , 2003, 50, 2523-2542.	1.3	28
103	Self-injection locking efficiency of a UV Fabry-Perot laser diode. <i>Optics Letters</i> , 2019, 44, 4175.	3.3	28
104	Interference effects in lossy resonator chains. <i>Journal of Modern Optics</i> , 2004, 51, 2515-2522.	1.3	26
105	Theory of coupled optoelectronic microwave oscillator I: expectation values. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 1023.	2.1	26
106	Single-Sideband Electro-Optical Modulator and Tunable Microwave Photonic Receiver. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010, 58, 3167-3174.	4.6	26
107	Photonic E-field sensor. <i>AIP Advances</i> , 2014, 4, .	1.3	26
108	Clustered frequency comb. <i>Optics Letters</i> , 2016, 41, 5102.	3.3	26

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109	Observation of Light Dragging in a Rubidium Vapor Cell. Physical Review Letters, 2004, 93, 023601.	7.8	25
110	Influence of a buffer gas on nonlinear magneto-optical polarization rotation. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 44.	2.1	25
111	Band All-Resonant Photonic Microwave Receiver. IEEE Photonics Technology Letters, 2008, 20, 1600-1612.	2.5	25
112	High-contrast Kerr frequency combs. Optica, 2017, 4, 434.	9.3	23
113	Self-injection locked blue laser. Journal of Optics (United Kingdom), 2018, 20, 045801.	2.2	23
114	Whispering-gallery mode based opto-electronic oscillators. , 2010, , .		22
115	Ultrahigh Q whispering gallery mode electro-optic resonators on a silicon photonic chip. Optics Letters, 2016, 41, 4375.	3.3	22
116	Magnetometer based on the opto-electronic microwave oscillator. Optics Communications, 2005, 247, 141-148.	2.1	21
117	On fundamental quantum noises of whispering gallery mode electro-optic modulators. Optics Express, 2007, 15, 17401.	3.4	21
118	Quantum speed meter based on dissipative coupling. Physical Review A, 2016, 93, .	2.5	21
119	Fundamental limitations of sensitivity of whispering gallery mode gyroscopes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2289-2295.	2.1	21
120	Quantum nondemolition detection of single photons in an open resonator by atomic beam deflection. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 192, 175-179.	2.1	19
121	Tunable Microcavity-Stabilized Quantum Cascade Laser for Mid-IR High-Resolution Spectroscopy and Sensing. Sensors, 2016, 16, 238.	3.8	19
122	On Stiffness of Optical Self-Injection Locking. Photonics, 2018, 5, 43.	2.0	19
123	Highly nondegenerate all-resonant optical parametric oscillator. Physical Review A, 2002, 66, .	2.5	18
124	Large polarization self-rotation in rubidium vapour: application for squeezing of electromagnetic vacuum. Journal of Modern Optics, 2002, 49, 2565-2581.	1.3	18
125	Vertically coupled whispering-gallery-mode resonator waveguide. Optics Letters, 2005, 30, 3066.	3.3	18
126	Efficient generation of truncated Bessel beams using cylindrical waveguides. Optics Express, 2007, 15, 5866.	3.4	18

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127	Microcavity morphology optimization. Physical Review A, 2014, 90, .	2.5	18
128	On the quantum limit for resolution in force measurement using an optical displacement transducer. Optics Communications, 1994, 109, 492-498.	2.1	17
129	Induced Absorption Resonance on the Open $F_{g} = 1 \hat{+} F_{e} = 2$ Transition of the D_{1} Line of the ^{87}Rb Atom. JETP Letters, 2005, 82, 472.	1.4	17
130	Generation of Kerr frequency combs in a sapphire whispering gallery mode microresonator. Optical Engineering, 2014, 53, 122607.	1.0	17
131	Microresonator stabilized $2\hat{\%}\hat{\%}\hat{1}4\text{m}$ distributed-feedback GaSb-based diode laser. Optics Letters, 2016, 41, 5559.	3.3	17
132	Application of vertical cavity surface emitting lasers in self-oscillating atomic clocks. Journal of Modern Optics, 2006, 53, 2469-2484.	1.3	16
133	Ring-down spectroscopy for studying properties of CW Raman lasers. Optics Communications, 2006, 260, 662-665.	2.1	16
134	Photorefractive effects in magnesium doped lithium niobate whispering gallery mode resonators. Applied Physics Letters, 2006, 88, 241909.	3.3	16
135	RF photonic signal processing components: From high order tunable filters to high stability tunable oscillators. , 2009, , .		16
136	High performance, miniature hyper-parametric microwave photonic oscillator. , 2010, , .		16
137	Stability of resonant opto-mechanical oscillators. Optics Express, 2012, 20, 16234.	3.4	16
138	Agile High-Q RF Photonic Zooming Filter. IEEE Photonics Technology Letters, 2016, 28, 43-46.	2.5	16
139	Extended ultrahigh-Q-cavity diode laser. Optics Letters, 2015, 40, 2596.	3.3	15
140	Electromagnetic-wave propagation and amplification in overdense plasmas: Application to free electron lasers. Physical Review E, 1998, 58, 7846-7854.	2.1	14
141	Three-photon electromagnetically induced absorption and transparency in an inhomogeneously broadened atomic vapour. Journal of Modern Optics, 2002, 49, 2485-2499.	1.3	14
142	Electromagnetically induced transparency with a partially standing drive field. Physical Review A, 2007, 76, .	2.5	14
143	Compact tunable kHz-linewidth semiconductor laser stabilized with a whispering-gallery mode microresonator. Proceedings of SPIE, 2011, , .	0.8	14
144	All-Optical Integrated rubidium Atomic Clock. , 2011, , .		14

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145	Feshbach resonances in Kerr frequency combs. <i>Physical Review A</i> , 2015, 91, .	2.5	14
146	Radiation trapping under conditions of electromagnetically induced transparency. <i>Journal of Modern Optics</i> , 2002, 49, 367-378.	1.3	13
147	Relationship between quantum two-photon correlation and classical spectrum of light. <i>Physical Review A</i> , 2005, 71, .	2.5	13
148	Nonlinear properties of electromagnetically induced transparency in rubidium vapor. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 65.	2.1	13
149	Modeling and measuring the quality factor of whispering gallery mode resonators. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	13
150	Active mode locking with whispering-gallery modes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 2292.	2.1	12
151	Quantum-correlation metrology with biphotons: where is the limit?. <i>Journal of Modern Optics</i> , 2005, 52, 2233-2243.	1.3	12
152	Optical vortices with large orbital momentum: generation and interference. <i>Optics Express</i> , 2006, 14, 2888.	3.4	12
153	Ultra-Narrow Line Tunable Semiconductor Lasers for Coherent LIDAR Applications. , 2014, , .		12
154	Polymer Waveguide Couplers for Fluorite Microresonators. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 667-670.	2.5	12
155	Crystalline Waveguides for Optical Gyroscopes. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-11.	2.9	12
156	<title>High-efficiency microwave and millimeter-wave electro-optical modulation with whispering-gallery resonators</title>. , 2002, 4629, 158.		11
157	Tunable filters and time delays with coupled whispering gallery mode resonators. , 2004, , .		11
158	Towards counting microwave photons at room temperature. <i>Laser Physics Letters</i> , 2009, 6, 129-134.	1.4	11
159	Self-referenced stabilization of temperature of an optomechanical microresonator. <i>Physical Review A</i> , 2011, 83, .	2.5	11
160	Calcium fluoride whispering gallery mode optical resonator with reduced thermal sensitivity. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 035801.	2.2	11
161	Integrated photonics for NASA applications. , 2019, , .		11
162	Miniature oscillators based on optical whispering gallery mode resonators. , 2008, , .		10

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163	Whispering gallery mode optical gyroscope. , 2016, , .		10
164	Resonant enhancement of refractive index in a cascade scheme. Journal of Modern Optics, 2002, 49, 359-365.	1.3	9
165	Photorefractive damage in whispering gallery resonators. Optics Communications, 2007, 272, 257-262.	2.1	9
166	RF-induced change of optical refractive index in strontium barium niobate. Proceedings of SPIE, 2013, , .	0.8	9
167	Stabilized chip-scale Kerr frequency comb via a high-Q reference photonic microresonator. Optics Letters, 2016, 41, 3706.	3.3	9
168	Oscillatory motion of a counterpropagating Kerr soliton dimer. Physical Review A, 2021, 103, .	2.5	9
169	Whispering gallery mode lithium niobate microresonators for photonics applications. , 2003, , .		8
170	Gravity field measurements using cold atoms with direct optical readout. Physical Review A, 2003, 67, .	2.5	8
171	Tunability and synthetic lineshapes in high-W optical whispering-gallery modes. , 2003, , .		8
172	Collective emission and absorption in a linear resonator chain. Optics Express, 2009, 17, 15210.	3.4	8
173	On the Sensitivity of All-Dielectric Microwave Photonic Receivers. Journal of Lightwave Technology, 2010, , .	4.6	8
174	On Sagnac frequency splitting in a solid-state ring Raman laser. Optics Letters, 2017, 42, 4736.	3.3	8
175	Mirror-Assisted Self-Injection Locking of a Laser to a Whispering-Gallery-Mode Microresonator. Physical Review Applied, 2021, 16, .	3.8	8
176	Electromagnetically induced photonic band gap. Physical Review A, 1999, 60, 712-714.	2.5	7
177	Cancellation of the Gordonâ€ˆHaus effect in an optical transmission system with a resonant medium. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 519.	2.1	7
178	Reconfigurable optical filter. Electronics Letters, 2005, 41, 356.	1.0	7
179	RF photonic receiver front-end based on crystalline whispering gallery mode resonators. , 2009, , .		7
180	Lasing and up conversion from a nominally pure whispering gallery mode resonator. Optics Express, 2012, 20, 16704.	3.4	7

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181	Transient regime of Kerr-frequency-comb formation. <i>Physical Review A</i> , 2012, 86, .	2.5	7
182	Mitigating parametric instability in optical gravitational wave detectors. <i>Physical Review D</i> , 2016, 93, .	4.7	7
183	A Low-RIN Spectrally Pure Whispering-Gallery-Mode Resonator-Based Semiconductor Laser. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1933-1936.	2.5	7
184	Application of a self-injection locked cyan laser for Barium ion cooling and spectroscopy. <i>Scientific Reports</i> , 2020, 10, 16494.	3.3	7
185	On acceleration sensitivity of 2 μm whispering gallery mode-based semiconductor self-injection locked laser. <i>Applied Optics</i> , 2019, 58, 2138.	1.8	7
186	Microresonator-stabilized extended-cavity diode laser for supercavity frequency stabilization. <i>Optics Letters</i> , 2017, 42, 1249.	3.3	7
187	Stochastic theory of self-induced transparency: linearized approach. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000, 17, 1031.	2.1	6
188	Mixed electromagnetically and self-induced transparency. <i>Optics Express</i> , 2001, 8, 66.	3.4	6
189	Optical generation of microwave reference frequencies. , 2011, , .		6
190	On phase noise of self-injection locked semiconductor lasers. , 2014, , .		6
191	Dissipative discrete time crystals in a pump-modulated Kerr microcavity. <i>Communications Physics</i> , 2022, 5, .	5.3	6
192	Whispering gallery mode stabilization of quantum cascade lasers for infrared sensing and spectroscopy. , 2017, , .		5
193	Hyperparametric frequency noise eater. <i>Physical Review A</i> , 2019, 99, .	2.5	5
194	Lithium Niobate Whispering Gallery Resonators: Applications and Fundamental Studies. <i>Springer Series in Materials Science</i> , 2014, , 337-383.	0.6	5
195	Einstein-Podolsky-Rosen paradox with quantum solitons in optical fibers. <i>Europhysics Letters</i> , 2001, 54, 592-598.	2.0	4
196	Detection of nonresonant impurity gases in alkali vapor cells. <i>Applied Physics Letters</i> , 2002, 81, 193-195.	3.3	4
197	Parametric optics with whispering-gallery modes. , 2003, , .		4
198	Influence of inhomogeneous broadening on group velocity in coherently pumped atomic vapour. <i>Journal of Modern Optics</i> , 2004, 51, 2571-2578.	1.3	4

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