

Andrey B Matsko

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244
papers

8,843
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47
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87
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310
ext. papers

11,104
ext. citations

3.7
avg, IF

6.19
L-index

#	Paper	IF	Citations
244	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006 , 12, 3-14	3.8	478
243	Conversion of conventional gravitational-wave interferometers into quantum nondemolition interferometers by modifying their input and/or output optics. <i>Physical Review D</i> , 2001 , 65,	4.9	413
242	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006 , 12, 15-32	3.8	368
241	Nonlinear optics and crystalline whispering gallery mode cavities. <i>Physical Review Letters</i> , 2004 , 92, 043902	7.4	278
240	Tunable optical frequency comb with a crystalline whispering gallery mode resonator. <i>Physical Review Letters</i> , 2008 , 101, 093902	7.4	246
239	High spectral purity Kerr frequency comb radio frequency photonic oscillator. <i>Nature Communications</i> , 2015 , 6, 7957	17.4	238
238	Probing 10 ⁻¹⁸ stability and residual drifts in the cross-polarized dual-mode stabilization of single-crystal ultrahigh- optical resonators. <i>Light: Science and Applications</i> , 2019 , 8, 1	16.7	228
237	Brillouin lasing with a CaF ₂ whispering gallery mode resonator. <i>Physical Review Letters</i> , 2009 , 102, 043902	7.4	207
236	Optical resonators with ten million finesse. <i>Optics Express</i> , 2007 , 15, 6768-73	3.3	193
235	Tunable delay line with interacting whispering-gallery-mode resonators. <i>Optics Letters</i> , 2004 , 29, 626-8	3	181
234	Transporting and time reversing light via atomic coherence. <i>Physical Review Letters</i> , 2002 , 88, 103601	7.4	172
233	Low threshold optical oscillations in a whispering gallery mode CaF(2) resonator. <i>Physical Review Letters</i> , 2004 , 93, 243905	7.4	168
232	Slow, Ultraslow, Stored, and Frozen Light. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2001 , 191-242	7.4	159
231	Mode-locked Kerr frequency combs. <i>Optics Letters</i> , 2011 , 36, 2845-7	3	156
230	Ultralow noise miniature external cavity semiconductor laser. <i>Nature Communications</i> , 2015 , 6, 7371	17.4	151
229	Nonlinear and quantum optics with whispering gallery resonators. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 123002	1.7	151
228	Chasing the thermodynamical noise limit in whispering-gallery-mode resonators for ultrastable laser frequency stabilization. <i>Nature Communications</i> , 2017 , 8, 8	17.4	147

227	Kilohertz optical resonances in dielectric crystal cavities. <i>Physical Review A</i> , 2004 , 70,	2.6	145
226	Whispering-gallery-mode-resonator-based ultranarrow linewidth external-cavity semiconductor laser. <i>Optics Letters</i> , 2010 , 35, 2822-4	3	142
225	Optical hyperparametric oscillations in a whispering-gallery-mode resonator: Threshold and phase diffusion. <i>Physical Review A</i> , 2005 , 71,	2.6	120
224	Ultra high Q crystalline microcavities. <i>Optics Communications</i> , 2006 , 265, 33-38	2	120
223	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	1.7	113
222	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	1.7	106
221	Mode-locked ultrashort pulse generation from on-chip normal dispersion microresonators. <i>Physical Review Letters</i> , 2015 , 114, 053901	7.4	101
220	Generation of near-infrared frequency combs from a MgF ₂ whispering gallery mode resonator. <i>Optics Letters</i> , 2011 , 36, 2290-2	3	89
219	Resonant microphotonic gyroscope. <i>Optica</i> , 2017 , 4, 114	8.6	86
218	Kerr combs with selectable central frequency. <i>Nature Photonics</i> , 2011 , 5, 293-296	33.9	85
217	Optical gyroscope with whispering gallery mode optical cavities. <i>Optics Communications</i> , 2004 , 233, 107-112	8.4	84
216	Nonlinear conversion efficiency in Kerr frequency comb generation. <i>Optics Letters</i> , 2014 , 39, 6126-9	3	81
215	Whispering-gallery-mode resonators as frequency references II Stabilization. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007 , 24, 2988	1.7	66
214	Observation of a three-photon electromagnetically induced transparency in hot atomic vapor. <i>Physical Review A</i> , 2002 , 65,	2.6	64
213	. <i>Journal of Lightwave Technology</i> , 2003 , 21, 3052-3061	4	61
212	Vacuum squeezing in atomic media via self-rotation. <i>Physical Review A</i> , 2002 , 66,	2.6	60
211	Radiation trapping in coherent media. <i>Physical Review Letters</i> , 2001 , 87, 133601	7.4	60
210	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	59

209	Kerr frequency comb generation in overmoded resonators. <i>Optics Express</i> , 2012 , 20, 27290-8	3.3	59
208	Resonant enhancement of high-order optical nonlinearities based on atomic coherence. <i>Physical Review A</i> , 2002 , 65,	2.6	54
207	Chaotic dynamics of frequency combs generated with continuously pumped nonlinear microresonators. <i>Optics Letters</i> , 2013 , 38, 525-7	3	52
206	Stabilization of a Kerr frequency comb oscillator. <i>Optics Letters</i> , 2013 , 38, 2636-9	3	51
205	Normal group-velocity dispersion Kerr frequency comb. <i>Optics Letters</i> , 2012 , 37, 43-5	3	51
204	Noise in gravitational-wave detectors and other classical-force measurements is not influenced by test-mass quantization. <i>Physical Review D</i> , 2003 , 67,	4.9	51
203	Sub-microwatt photonic microwave receiver. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 1602-1604	2.2	49
202	On timing jitter of mode locked Kerr frequency combs. <i>Optics Express</i> , 2013 , 21, 28862-76	3.3	48
201	Phase noise of whispering gallery photonic hyper-parametric microwave oscillators. <i>Optics Express</i> , 2008 , 16, 4130-44	3.3	48
200	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	2.2	48
199	Optomechanics with surface-acoustic-wave whispering-gallery modes. <i>Physical Review Letters</i> , 2009 , 103, 257403	7.4	47
198	On excitation of breather solitons in an optical microresonator. <i>Optics Letters</i> , 2012 , 37, 4856-8	3	47
197	Lasing without inversion via decay-induced coherence. <i>Physical Review A</i> , 2001 , 65,	2.6	47
196	Generation of Kerr combs centered at 4.5 μm in crystalline microresonators pumped with quantum-cascade lasers. <i>Optics Letters</i> , 2015 , 40, 3468-71	3	45
195	Surface acoustic wave opto-mechanical oscillator and frequency comb generator. <i>Optics Letters</i> , 2011 , 36, 3338-40	3	45
194	Efficient upconversion of subterahertz radiation in a high-Q whispering gallery resonator. <i>Optics Letters</i> , 2009 , 34, 713-5	3	45
193	Anomalous stimulated Brillouin scattering via ultraslow light. <i>Physical Review Letters</i> , 2001 , 86, 2006-9	7.4	45
192	Passively mode-locked Raman laser. <i>Physical Review Letters</i> , 2010 , 105, 143903	7.4	44

191	Hard and soft excitation regimes of Kerr frequency combs. <i>Physical Review A</i> , 2012 , 85,	2.6	44
190	On the dynamic range of optical delay lines based on coherent atomic media. <i>Optics Express</i> , 2005 , 13, 2210-23	3.3	44
189	Using slow light to enhance acousto-optical effects: application to squeezed light. <i>Physical Review Letters</i> , 2000 , 84, 5752-5	7.4	43
188	Miniature multioctave light source based on a monolithic microcavity. <i>Optica</i> , 2015 , 2, 40	8.6	42
187	Dispersion compensation in whispering-gallery modes. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003 , 20, 157-62	1.8	41
186	Tunable optical single-sideband modulator with complete sideband suppression. <i>Optics Letters</i> , 2009 , 34, 1300-2	3	40
185	Parametric oscillations in a whispering gallery resonator. <i>Optics Letters</i> , 2007 , 32, 157-9	3	40
184	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	1.7	40
183	Nonlinear magneto-optical rotation of elliptically polarized light. <i>Physical Review A</i> , 2003 , 67,	2.6	37
182	Morphology-dependent photonic circuit elements. <i>Optics Letters</i> , 2006 , 31, 1313-5	3	36
181	Tunable filter based on whispering gallery modes. <i>Electronics Letters</i> , 2003 , 39, 389	1.1	36
180	Optical Cherenkov radiation in overmoded microresonators. <i>Optics Letters</i> , 2016 , 41, 2907-10	3	34
179	Microwave whispering-gallery resonator for efficient optical up-conversion. <i>Physical Review A</i> , 2009 , 80,	2.6	34
178	Ringdown spectroscopy of stimulated Raman scattering in a whispering gallery mode resonator. <i>Optics Letters</i> , 2007 , 32, 497-9	3	34
177	Optical lattice trap for Kerr solitons. <i>European Physical Journal D</i> , 2017 , 71, 1	1.3	32
176	Four-wave mixing of optical and microwave fields. <i>Physical Review Letters</i> , 2002 , 89, 103601	7.4	32
175	High-order dispersion in Kerr comb oscillators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, 715	1.7	31
174	Optical Ramsey fringes induced by Zeeman coherence. <i>Physical Review A</i> , 2001 , 65,	2.6	31

173	Towards chip-scale optical frequency synthesis based on optical heterodyne phase-locked loop. <i>Optics Express</i> , 2017 , 25, 681-695	3.3	30
172	Whispering gallery mode diamond resonator. <i>Optics Letters</i> , 2013 , 38, 4320-3	3	30
171	Voltage-controlled photonic oscillator. <i>Optics Letters</i> , 2010 , 35, 1572-4	3	30
170	Enhancement of photorefraction in whispering gallery mode resonators. <i>Physical Review B</i> , 2006 , 74,	3.3	30
169	White-light whispering gallery mode resonators. <i>Optics Letters</i> , 2006 , 31, 92-4	3	30
168	Whispering gallery resonators for studying orbital angular momentum of a photon. <i>Physical Review Letters</i> , 2005 , 95, 143904	7.4	30
167	On Frequency Combs in Monolithic Resonators. <i>Nanophotonics</i> , 2016 , 5, 363-391	6.3	30
166	Direct observation of stopped light in a whispering-gallery-mode microresonator. <i>Physical Review A</i> , 2007 , 76,	2.6	29
165	Calligraphic poling of Lithium Niobate. <i>Optics Express</i> , 2005 , 13, 3408-19	3.3	29
164	Narrowband tunable photonic notch filter. <i>Optics Letters</i> , 2009 , 34, 1318-20	3	28
163	Electromagnetic-induced transparency and amplification of electromagnetic waves in photonic band-gap materials. <i>Physical Review A</i> , 1998 , 57, 4919-4924	2.6	28
162	Crystal quartz optical whispering-gallery resonators. <i>Optics Letters</i> , 2008 , 33, 1569-71	3	26
161	Noise conversion in Kerr comb RF photonic oscillators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 232	1.7	25
160	On the fundamental limits of Q factor of crystalline dielectric resonators. <i>Optics Express</i> , 2007 , 15, 3390-5.3	3.3	25
159	On cavity modification of stimulated Raman scattering. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2003 , 5, 272-278		25
158	Sensitivity of terahertz photonic receivers. <i>Physical Review A</i> , 2008 , 77,	2.6	24
157	Resonant Widely Tunable Opto-Electronic Oscillator. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 1535-1538		23
156	Observation of light dragging in a rubidium vapor cell. <i>Physical Review Letters</i> , 2004 , 93, 023601	7.4	23

155	Improving engine efficiency by extracting laser energy from hot exhaust gas. <i>Physical Review A</i> , 2003 , 67,	2.6	23
154	Mode filtering in optical whispering gallery resonators. <i>Electronics Letters</i> , 2005 , 41, 495	1.1	23
153	Low-loss prism-waveguide optical coupling for ultrahigh-Q low-index monolithic resonators. <i>Optica</i> , 2018 , 5, 219	8.6	22
152	Interference effects in lossy resonator chains. <i>Journal of Modern Optics</i> , 2004 , 51, 2515-2522	1.1	22
151	Theory of coupled optoelectronic microwave oscillator I: expectation values. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 1023	1.7	21
150	Whispering gallery mode based optoelectronic microwave oscillator		21
149	Compact stabilized semiconductor laser for frequency metrology. <i>Applied Optics</i> , 2015 , 54, 3353-9	0.2	20
148	High-contrast Kerr frequency combs. <i>Optica</i> , 2017 , 4, 434	8.6	20
147	Photonic E-field sensor. <i>AIP Advances</i> , 2014 , 4, 122901	1.5	20
146	Theory of coupled optoelectronic microwave oscillator II: phase noise. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 3316	1.7	20
145	Influence of a buffer gas on nonlinear magneto-optical polarization rotation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 44	1.7	20
144	Single-Sideband Electro-Optical Modulator and Tunable Microwave Photonic Receiver. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 3167-3174	4.1	19
143	Large polarization self-rotation in rubidium vapour: application for squeezing of electromagnetic vacuum. <i>Journal of Modern Optics</i> , 2002 , 49, 2565-2581	1.1	18
142	Microcavity-Stabilized Quantum Cascade Laser. <i>Laser and Photonics Reviews</i> , 2016 , 10, 153-157	8.3	18
141	Enabling arbitrary wavelength frequency combs on chip. <i>Laser and Photonics Reviews</i> , 2016 , 10, 158-162	8.3	18
140	On fundamental quantum noises of whispering gallery mode electro-optic modulators. <i>Optics Express</i> , 2007 , 15, 17401-9	3.3	17
139	Quartic dissipative solitons in optical Kerr cavities. <i>Optics Letters</i> , 2019 , 44, 3086-3089	3	17
138	Clustered frequency comb. <i>Optics Letters</i> , 2016 , 41, 5102-5105	3	17

137	Microcavity morphology optimization. <i>Physical Review A</i> , 2014 , 90,	2.6	16
136	2010 ,		16
135	$\mathcal{K}_{\{a\}}$ Band All-Resonant Photonic Microwave Receiver. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 1600-1612	2.2	16
134	Efficient generation of truncated Bessel beams using cylindrical waveguides. <i>Optics Express</i> , 2007 , 15, 5866-71	3.3	16
133	Quantum nondemolition detection of single photons in an open resonator by atomic beam deflection. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994 , 192, 175-179	2.3	16
132	Generation of Kerr frequency combs in a sapphire whispering gallery mode microresonator. <i>Optical Engineering</i> , 2014 , 53, 122607	1.1	15
131	Stability of resonant opto-mechanical oscillators. <i>Optics Express</i> , 2012 , 20, 16234	3.3	15
130	Magnetometer based on the opto-electronic microwave oscillator. <i>Optics Communications</i> , 2005 , 247, 141-148	2	15
129	Induced absorption resonance on the open $F_g = 1 - \mathcal{K} e = 2$ transition of the D 1 line of the 87Rb atom. <i>JETP Letters</i> , 2005 , 82, 472	1.2	15
128	Highly nondegenerate all-resonant optical parametric oscillator. <i>Physical Review A</i> , 2002 , 66,	2.6	15
127	Optimization of Laser Stabilization via Self-Injection Locking to a Whispering-Gallery-Mode Microresonator. <i>Physical Review Applied</i> , 2020 , 14,	4.3	15
126	Ultrahigh Q whispering gallery mode electro-optic resonators on a silicon photonic chip. <i>Optics Letters</i> , 2016 , 41, 4375-8	3	15
125	Quantum speed meter based on dissipative coupling. <i>Physical Review A</i> , 2016 , 93,	2.6	14
124	Three-photon electromagnetically induced absorption and transparency in an inhomogeneously broadened atomic vapour. <i>Journal of Modern Optics</i> , 2002 , 49, 2485-2499	1.1	14
123	On the quantum limit for resolution in force measurement using an optical displacement transducer. <i>Optics Communications</i> , 1994 , 109, 492-498	2	14
122	Self-injection locked blue laser. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 045801	1.7	13
121	Photorefractive effects in magnesium doped lithium niobate whispering gallery mode resonators. <i>Applied Physics Letters</i> , 2006 , 88, 241909	3.4	13
120	Nonlinear properties of electromagnetically induced transparency in rubidium vapor. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 65	1.7	13

119	Orthogonally polarized frequency comb generation from a Kerr comb via cross-phase modulation. <i>Optics Letters</i> , 2019 , 44, 1472-1475	3	13
118	Feshbach resonances in Kerr frequency combs. <i>Physical Review A</i> , 2015 , 91,	2.6	12
117	Fundamental limitations of sensitivity of whispering gallery mode gyroscopes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 2289-2295	2.3	12
116	Agile High-Q RF Photonic Zooming Filter. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 43-46	2.2	12
115	Vertically coupled whispering-gallery-mode resonator waveguide. <i>Optics Letters</i> , 2005 , 30, 3066-8	3	12
114	Application of vertical cavity surface emitting lasers in self-oscillating atomic clocks. <i>Journal of Modern Optics</i> , 2006 , 53, 2469-2484	1.1	12
113	Radiation trapping under conditions of electromagnetically induced transparency. <i>Journal of Modern Optics</i> , 2002 , 49, 367-378	1.1	12
112	Self-injection locking efficiency of a UV Fabry-Perot laser diode. <i>Optics Letters</i> , 2019 , 44, 4175-4178	3	12
111	Electromagnetically induced transparency with a partially standing drive field. <i>Physical Review A</i> , 2007 , 76,	2.6	11
110	Relationship between quantum two-photon correlation and classical spectrum of light. <i>Physical Review A</i> , 2005 , 71,	2.6	11
109	Microresonator stabilized 2 μ m distributed-feedback GaSb-based diode laser. <i>Optics Letters</i> , 2016 , 41, 5559-5562	3	11
108	On Stiffness of Optical Self-Injection Locking. <i>Photonics</i> , 2018 , 5, 43	2.2	11
107	Towards counting microwave photons at room temperature. <i>Laser Physics Letters</i> , 2009 , 6, 129-134	1.5	10
106	Quantum-correlation metrology with biphotons: where is the limit?. <i>Journal of Modern Optics</i> , 2005 , 52, 2233-2243	1.1	10
105	Active mode locking with whispering-gallery modes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 2292	1.7	10
104	Electromagnetic-wave propagation and amplification in overdense plasmas: Application to free electron lasers. <i>Physical Review E</i> , 1998 , 58, 7846-7854	2.4	10
103	Polymer Waveguide Couplers for Fluorite Microresonators. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 667-670	2.2	9
102	Extended ultrahigh-Q-cavity diode laser. <i>Optics Letters</i> , 2015 , 40, 2596-9	3	9

101	Compact tunable kHz-linewidth semiconductor laser stabilized with a whispering-gallery mode microresonator 2011 ,		9
100	RF photonic signal processing components: From high order tunable filters to high stability tunable oscillators 2009 ,		9
99	Self-referenced stabilization of temperature of an optomechanical microresonator. <i>Physical Review A</i> , 2011 , 83,	2.6	9
98	Optical vortices with large orbital momentum: generation and interference. <i>Optics Express</i> , 2006 , 14, 2888-97	3.3	9
97	Ring-down spectroscopy for studying properties of CW Raman lasers. <i>Optics Communications</i> , 2006 , 260, 662-665	2	9
96	Tunable filters and time delays with coupled whispering gallery mode resonators 2004 ,		9
95	Resonant enhancement of refractive index in a cascade scheme. <i>Journal of Modern Optics</i> , 2002 , 49, 359-365		9
94	Tunable Microcavity-Stabilized Quantum Cascade Laser for Mid-IR High-Resolution Spectroscopy and Sensing. <i>Sensors</i> , 2016 , 16, 238	3.8	9
93	Quantum diffusion of microcavity solitons. <i>Nature Physics</i> , 2021 , 17, 462-466	16.2	9
92	Modeling and measuring the quality factor of whispering gallery mode resonators. <i>Applied Physics B: Lasers and Optics</i> , 2018 , 124, 1	1.9	8
91	RF-induced change of optical refractive index in strontium barium niobate 2013 ,		8
90	Photorefractive damage in whispering gallery resonators. <i>Optics Communications</i> , 2007 , 272, 257-262	2	8
89	A low-noise photonic heterodyne synthesizer and its application to millimeter-wave radar. <i>Nature Communications</i> , 2021 , 12, 4397	17.4	8
88	Crystalline Waveguides for Optical Gyroscopes. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-11	3.8	7
87	Whispering gallery mode optical gyroscope 2016 ,		7
86	Ultra-Narrow Line Tunable Semiconductor Lasers for Coherent LIDAR Applications 2014 ,		7
85	Transient regime of Kerr-frequency-comb formation. <i>Physical Review A</i> , 2012 , 86,	2.6	7
84	Collective emission and absorption in a linear resonator chain. <i>Optics Express</i> , 2009 , 17, 15210-5	3.3	7

83	High performance, miniature hyper-parametric microwave photonic oscillator 2010 ,		7
82	High-efficiency microwave and millimeter-wave electro-optical modulation with whispering-gallery resonators 2002 , 4629, 158		7
81	Cancellation of the Gordon-Haus effect in an optical transmission system with a resonant medium. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999 , 16, 519	1.7	7
80	Stabilized chip-scale Kerr frequency comb via a high-Q reference photonic microresonator. <i>Optics Letters</i> , 2016 , 41, 3706-9	3	7
79	Mitigating parametric instability in optical gravitational wave detectors. <i>Physical Review D</i> , 2016 , 93,	4.9	6
78	On phase noise of self-injection locked semiconductor lasers 2014 ,		6
77	All-Optical Integrated rubidium Atomic Clock 2011 ,		6
76	Optical generation of microwave reference frequencies 2011 ,		6
75	Lasing and up conversion from a nominally pure whispering gallery mode resonator. <i>Optics Express</i> , 2012 , 20, 16704	3.3	6
74	Tunability and synthetic lineshapes in high-W optical whispering-gallery modes 2003 ,		6
73	Whispering gallery mode lithium niobate microresonators for photonics applications 2003 ,		6
72	Reconfigurable optical filter. <i>Electronics Letters</i> , 2005 , 41, 356	1.1	6
71	Mixed electromagnetically and self-induced transparency. <i>Optics Express</i> , 2001 , 8, 66-75	3.3	6
70	Electromagnetically induced photonic band gap. <i>Physical Review A</i> , 1999 , 60, 712-714	2.6	6
69	On Sagnac frequency splitting in a solid-state ring Raman laser. <i>Optics Letters</i> , 2017 , 42, 4736-4739	3	6
68	Whispering gallery mode stabilization of quantum cascade lasers for infrared sensing and spectroscopy 2017 ,		5
67	Calcium fluoride whispering gallery mode optical resonator with reduced thermal sensitivity. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 035801	1.7	5
66	. <i>Journal of Lightwave Technology</i> , 2010 ,	4	5

65	2008,			5
64	Stochastic theory of self-induced transparency: linearized approach. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000 , 17, 1031	1.7		5
63	Integrated photonics for NASA applications 2019,			5
62	On acceleration sensitivity of 2 nd order whispering gallery mode-based semiconductor self-injection locked laser. <i>Applied Optics</i> , 2019 , 58, 2138-2145	1.7		5
61	Lithium Niobate Whispering Gallery Resonators: Applications and Fundamental Studies. <i>Springer Series in Materials Science</i> , 2014 , 337-383	0.9		5
60	Trapping light into high orbital momentum modes of fiber tapers. <i>Optics Letters</i> , 2015 , 40, 3782-5	3		4
59	RF photonic receiver front-end based on crystalline whispering gallery mode resonators 2009,			4
58	Parametric optics with whispering-gallery modes 2003,			4
57	Gravity field measurements using cold atoms with direct optical readout. <i>Physical Review A</i> , 2003 , 67,	2.6		4
56	Einstein-Podolsky-Rosen paradox with quantum solitons in optical fibers. <i>Europhysics Letters</i> , 2001 , 54, 592-598	1.6		4
55	Detection of nonresonant impurity gases in alkali vapor cells. <i>Applied Physics Letters</i> , 2002 , 81, 193-195	3.4		4
54	Advances in the Development of Spectrally Pure Microwave Photonic Synthesizers. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1882-1885	2.2		3
53	Stabilized C-Band Kerr Frequency Comb. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-11	1.8		3
52	Tunable resonant single-sideband electro-optical modulator 2009,			3
51	Improving resonant photonics devices with sol-gel coatings 2009,			3
50	Influence of inhomogeneous broadening on group velocity in coherently pumped atomic vapour. <i>Journal of Modern Optics</i> , 2004 , 51, 2571-2578	1.1		3
49	Phase-matching condition between acoustic and optical waves in doped fibers. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2001 , 91, 490-493	0.7		3
48	Microresonator-stabilized extended-cavity diode laser for supercavity frequency stabilization. <i>Optics Letters</i> , 2017 , 42, 1249-1252	3		3

47	Oscillatory motion of a counterpropagating Kerr soliton dimer. <i>Physical Review A</i> , 2021 , 103,	2.6	3
46	A Low-RIN Spectrally Pure Whispering-Gallery-Mode Resonator-Based Semiconductor Laser. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 1933-1936	2.2	3
45	All-optical dissipative discrete time crystals.. <i>Nature Communications</i> , 2022 , 13, 848	17.4	3
44	Hyperparametric frequency noise eater. <i>Physical Review A</i> , 2019 , 99,	2.6	2
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