

Scott Diddams

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

283
papers

18,284
citations

67
h-index

129
g-index

422
ext. papers

23,302
ext. citations

7.5
avg, IF

6.7
L-index

#	Paper	IF	Citations
283	High-resolution Near-infrared Spectroscopy of a Flare around the Ultracool Dwarf ν B 10. <i>Astrophysical Journal</i> , 2022 , 925, 155	4.7	1
282	Rotational Modulation of Spectroscopic Zeeman Signatures in Low-mass Stars. <i>Astrophysical Journal Letters</i> , 2022 , 927, L11	7.9	1
281	A Hot Mars-sized Exoplanet Transiting an M Dwarf. <i>Astronomical Journal</i> , 2022 , 163, 3	4.9	0
280	TOI-1696 and TOI-2136: Constraining the Masses of Two Mini-Neptunes with the Habitable-Zone Planet Finder. <i>Astronomical Journal</i> , 2022 , 163, 286	4.9	0
279	A six-octave optical frequency comb from a scalable few-cycle erbium fibre laser. <i>Nature Photonics</i> , 2021 , 15, 281-286	33.9	20
278	Control and readout of a superconducting qubit using a photonic link. <i>Nature</i> , 2021 , 591, 575-579	50.4	10
277	A Harsh Test of Far-field Scrambling with the Habitable-zone Planet Finder and the HobbyEberly Telescope. <i>Astrophysical Journal</i> , 2021 , 912, 15	4.7	2
276	Broadband Stability of the Habitable Zone Planet Finder Fabry-Pérot Etalon Calibration System: Evidence for Chromatic Variation. <i>Astronomical Journal</i> , 2021 , 161, 252	4.9	0
275	Reduction of Flicker Phase Noise in High-Speed Photodetectors Under Ultrashort Pulse Illumination. <i>IEEE Photonics Journal</i> , 2021 , 13, 1-12	1.8	2
274	Broadband ultraviolet-visible frequency combs from cascaded high-harmonic generation in quasi-phase-matched waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, 2252	1.7	7
273	Stellar Activity Manifesting at a One-year Alias Explains Barnard b as a False Positive. <i>Astronomical Journal</i> , 2021 , 162, 61	4.9	8
272	Single-cycle all-fiber frequency comb. <i>APL Photonics</i> , 2021 , 6, 086110	5.2	2
271	Nondetection of Helium in the Upper Atmospheres of TRAPPIST-1b, e, and f*. <i>Astronomical Journal</i> , 2021 , 162, 82	4.9	4
270	TOI-532b: The Habitable-zone Planet Finder confirms a Large Super Neptune in the Neptune Desert orbiting a metal-rich M-dwarf host. <i>Astronomical Journal</i> , 2021 , 162, 135	4.9	3
269	The Habitable-zone Planet Finder Detects a Terrestrial-mass Planet Candidate Closely Orbiting Gliese 1151: The Likely Source of Coherent Low-frequency Radio Emission from an Inactive Star. <i>Astrophysical Journal Letters</i> , 2021 , 919, L9	7.9	3
268	High-performance, compact optical standard. <i>Optics Letters</i> , 2021 , 46, 4702-4705	3	6
267	Coherent optical clock down-conversion for microwave frequencies with 10 instability. <i>Science</i> , 2020 , 368, 889-892	33.3	31

266	Direct Kerr frequency comb atomic spectroscopy and stabilization. <i>Science Advances</i> , 2020 , 6, eaax6230	14.3	23
265	Frequency-comb spectroscopy on pure quantum states of a single molecular ion. <i>Science</i> , 2020 , 367, 1458-1461	33.3	17
264	Mid-Infrared Frequency Comb Generation and Spectroscopy with Few-Cycle Pulses and Nonlinear Optics. <i>Physical Review Letters</i> , 2020 , 124, 133904	7.4	14
263	Mid-infrared frequency comb with 6.7 W average power based on difference frequency generation. <i>Optics Letters</i> , 2020 , 45, 1248-1251	3	4
262	All-fiber frequency comb at 2 μm providing 1.4-cycle pulses. <i>Optics Letters</i> , 2020 , 45, 2660-2663	3	6
261	Mid-infrared frequency combs at 10 GHz. <i>Optics Letters</i> , 2020 , 45, 3677-3680	3	13
260	Frequency stability of the mode spectrum of broad bandwidth Fabry-Pérot interferometers. <i>OSA Continuum</i> , 2020 , 3, 1177	1.4	1
259	Fully phase-stabilized 1 GHz turnkey frequency comb at 156 μm . <i>OSA Continuum</i> , 2020 , 3, 2070	1.4	7
258	A Warm Jupiter Transiting an M Dwarf: A TESS Single-transit Event Confirmed with the Habitable-zone Planet Finder. <i>Astronomical Journal</i> , 2020 , 160, 147	4.9	6
257	A Mini-Neptune and a Radius Valley Planet Orbiting the Nearby M2 Dwarf TOI-1266 in Its Venus Zone: Validation with the Habitable-zone Planet Finder. <i>Astronomical Journal</i> , 2020 , 160, 259	4.9	4
256	Persistent Starspot Signals on M Dwarfs: Multiwavelength Doppler Observations with the Habitable-zone Planet Finder and Keck/HIRES. <i>Astrophysical Journal</i> , 2020 , 897, 125	4.7	16
255	TOI-1728b: The Habitable-zone Planet Finder Confirms a Warm Super-Neptune Orbiting an M-dwarf Host. <i>Astrophysical Journal</i> , 2020 , 899, 29	4.7	7
254	Optical frequency combs: Coherently uniting the electromagnetic spectrum. <i>Science</i> , 2020 , 369,	33.3	93
253	Infrared electric field sampled frequency comb spectroscopy. <i>Science Advances</i> , 2019 , 5, eaaw8794	14.3	50
252	Self-organized nonlinear gratings for ultrafast nanophotonics. <i>Nature Photonics</i> , 2019 , 13, 494-499	33.9	27
251	Tuning Kerr-Soliton Frequency Combs to Atomic Resonances. <i>Physical Review Applied</i> , 2019 , 11,	4.3	22
250	Microrod Optical Frequency Reference in the Ambient Environment. <i>Physical Review Applied</i> , 2019 , 12,	4.3	5
249	Terahertz-Rate Kerr-Microresonator Optical Clockwork. <i>Physical Review X</i> , 2019 , 9,	9.1	25

248	Measurements of Al+27 and Mg+25 magnetic constants for improved ion-clock accuracy. <i>Physical Review A</i> , 2019 , 100,	2.6	10
247	Optical-Clock-Based Time Scale. <i>Physical Review Applied</i> , 2019 , 12,	4.3	11
246	Impact of crosshatch patterns in H2RGs on high-precision radial velocity measurements: exploration of measurement and mitigation paths with the Habitable-Zone Planet Finder. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019 , 5, 1	1.1	3
245	High-Speed Photodetection and Microwave Generation in a Sub-100 mK Environment 2019 ,		1
244	30 GHz electro-optic frequency comb spanning 300 THz in the near infrared and visible. <i>Optics Letters</i> , 2019 , 44, 2673	3	20
243	Stellar spectroscopy in the near-infrared with a laser frequency comb. <i>Optica</i> , 2019 , 6, 233	8.6	47
242	Architecture for the photonic integration of an optical atomic clock. <i>Optica</i> , 2019 , 6, 680	8.6	153
241	Multifunctional integrated photonics in the mid-infrared with suspended AlGaAs on silicon. <i>Optica</i> , 2019 , 6, 1246	8.6	27
240	Infrared frequency comb generation and spectroscopy with suspended silicon nanophotonic waveguides. <i>Optica</i> , 2019 , 6, 1269	8.6	23
239	Versatile digital approach to laser frequency comb stabilization. <i>OSA Continuum</i> , 2019 , 2, 3262	1.4	3
238	Searching for Exoplanets Using a Microresonator Astrocomb. <i>Nature Photonics</i> , 2019 , 13, 25-30	33.9	107
237	Optical-Frequency Measurements with a Kerr Microcomb and Photonic-Chip Supercontinuum. <i>Physical Review Applied</i> , 2018 , 9,	4.3	42
236	An optical-frequency synthesizer using integrated photonics. <i>Nature</i> , 2018 , 557, 81-85	50.4	297
235	Quasi-Phase-Matched Supercontinuum Generation in Photonic Waveguides. <i>Physical Review Letters</i> , 2018 , 120, 053903	7.4	25
234	High-coherence mid-infrared dual-comb spectroscopy spanning 2.6 to 5.2 μ m. <i>Nature Photonics</i> , 2018 , 12, 202-208	33.9	158
233	Versatile silicon-waveguide supercontinuum for coherent mid-infrared spectroscopy. <i>APL Photonics</i> , 2018 , 3, 036102	5.2	27
232	Downsampling of optical frequency combs. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018 , 35, 1666	1.7	3
231	Deuterated silicon nitride photonic devices for broadband optical frequency comb generation. <i>Optics Letters</i> , 2018 , 43, 1527-1530	3	22

230	Dual-comb interferometry via repetition rate switching of a single frequency comb. <i>Optics Letters</i> , 2018 , 43, 3614-3617	3	15
229	Molecular fingerprinting with bright, broadband infrared frequency combs. <i>Optica</i> , 2018 , 5, 727	8.6	96
228	Photonic chip for laser stabilization to an atomic vapor with 10 ⁻¹¹ instability. <i>Optica</i> , 2018 , 5, 443	8.6	57
227	Interlocking Kerr-microresonator frequency combs for microwave to optical synthesis. <i>Optics Letters</i> , 2018 , 43, 2933-2936	3	36
226	Tunable mid-infrared generation via wide-band four-wave mixing in silicon nitride waveguides. <i>Optics Letters</i> , 2018 , 43, 4220-4223	3	16
225	Heterogeneously Integrated GaAs Waveguides on Insulator for Efficient Frequency Conversion. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800149	8.3	55
224	Thermal and Nonlinear Dissipative-Soliton Dynamics in Kerr-Microresonator Frequency Combs. <i>Physical Review Letters</i> , 2018 , 121, 063902	7.4	66
223	Mid-infrared frequency comb generation via cascaded quadratic nonlinearities in quasi-phase-matched waveguides. <i>Optics Letters</i> , 2018 , 43, 1678-1681	3	31
222	Infrared Astronomical Spectroscopy for Radial Velocity Measurements with 10 cm/s Precision 2018 ,		2
221	Octave-spanning dual comb spectroscopy in the molecular fingerprint region 2018 ,		4
220	Direct Kerr-frequency-comb atomic stabilization 2018 ,		2
219	Optimizing the linearity in high-speed photodiodes. <i>Optics Express</i> , 2018 , 26, 30532-30545	3.3	10
218	Fully self-referenced frequency comb consuming 5 watts of electrical power. <i>OSA Continuum</i> , 2018 , 1, 274	1.4	14
217	An Ultrafast Electro-Optic Dual Comb for Linear and Nonlinear Spectroscopy 2018 ,		1
216	Ultrafast electro-optic light with subcycle control. <i>Science</i> , 2018 , 361, 1358-1363	33.3	60
215	Coherent ultra-violet to near-infrared generation in silica ridge waveguides. <i>Nature Communications</i> , 2017 , 8, 13922	17.4	50
214	Coherent frequency combs for spectroscopy across the 3-5 μm region. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	21
213	Soliton crystals in Kerr resonators. <i>Nature Photonics</i> , 2017 , 11, 671-676	33.9	154

212	Compact, thermal-noise-limited reference cavity for ultra-low-noise microwave generation. <i>Optics Letters</i> , 2017 , 42, 1277-1280	3	34
211	Self-referenced frequency combs using high-efficiency silicon-nitride waveguides. <i>Optics Letters</i> , 2017 , 42, 2314-2317	3	54
210	Octave-spanning long-wave infrared generation via intra-pulse difference frequency generation in orientation-patterned gallium phosphide 2017 ,		1
209	Ultrabroadband Supercontinuum Generation and Frequency-Comb Stabilization Using On-Chip Waveguides with Both Cubic and Quadratic Nonlinearities. <i>Physical Review Applied</i> , 2017 , 8,	4-3	65
208	Stably accessing octave-spanning microresonator frequency combs in the soliton regime. <i>Optica</i> , 2017 , 4, 193-203	8.6	134
207	Frequency stability characterization of a broadband fiber Fabry-Pérot interferometer. <i>Optics Express</i> , 2017 , 25, 15599-15613	3-3	6
206	Electronic synthesis of light. <i>Optica</i> , 2017 , 4, 406	8.6	80
205	Single-branch Er:fiber frequency comb for precision optical metrology with 10^{-8} fractional instability. <i>Optica</i> , 2017 , 4, 879	8.6	37
204	High-harmonic generation in periodically poled waveguides. <i>Optica</i> , 2017 , 4, 1538	8.6	31
203	Heterodyne-based hybrid controller for wide dynamic range optoelectronic frequency synthesis. <i>Optics Express</i> , 2017 , 25, 29086	3-3	2
202	Photonic-Chip Supercontinuum with Tailored Spectra for Counting Optical Frequencies. <i>Physical Review Applied</i> , 2017 , 8,	4-3	28
201	Coherent on-chip spectral-engineered mid-IR frequency comb generation in Si waveguides 2017 ,		1
200	Initiating Kerr-Soliton Frequency Combs Apart from Thermal Bistability and Mode Perturbation Effects 2017 ,		2
199	Optical frequency synthesis using a dual-Kerr-microresonator frequency comb 2017 ,		2
198	Towards an Integrated-Photonics Optical-Frequency Synthesizer With 2017 ,		5
197	Broadband Mid-Infrared Dual Comb Spectroscopy with Comb-Tooth Resolution and High Signal-To-Noise Ratio 2017 ,		1
196	Chip-scale optical resonator enabled synthesizer (CORES) miniature systems for optical frequency synthesis 2016 ,		8
195	Phase-coherent microwave-to-optical link with a self-referenced microcomb. <i>Nature Photonics</i> , 2016 , 10, 516-520	33-9	97

194	State of the Field: Extreme Precision Radial Velocities. <i>Publications of the Astronomical Society of the Pacific</i> , 2016 , 128, 066001	5	191
193	Rapid, broadband spectroscopic temperature measurement of (hbox {CO}_2) using VIPA spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	12
192	Broadband dispersion-engineered microresonator on a chip. <i>Nature Photonics</i> , 2016 , 10, 316-320	33.9	64
191	Stabilizing multiple solitons in Kerr microresonator frequency combs 2016 ,		1
190	Microresonator Brillouin laser stabilization using a microfabricated rubidium cell. <i>Optics Express</i> , 2016 , 24, 14513-24	3.3	11
189	Tunable resolution terahertz dual frequency comb spectrometer. <i>Optics Express</i> , 2016 , 24, 30100-30107	3.3	14
188	A microrod-resonator Brillouin laser with 240 Hz absolute linewidth. <i>New Journal of Physics</i> , 2016 , 18, 045001	2.9	21
187	Measuring the thermal sensitivity of a fiber Fabry-Pérot interferometer 2016 ,		1
186	Demonstration of a near-IR line-referenced electro-optical laser frequency comb for precision radial velocity measurements in astronomy. <i>Nature Communications</i> , 2016 , 7, 10436	17.4	37
185	Octave-spanning supercontinuum generation via microwave frequency multiplication. <i>Journal of Physics: Conference Series</i> , 2016 , 723, 012035	0.3	7
184	Optically referenced broadband electronic synthesizer with 15 digits of resolution. <i>Laser and Photonics Reviews</i> , 2016 , 10, 780-790	8.3	25
183	Phase-dependent interference between frequency doubled comb lines in a (2) phase-matched aluminum nitride microring. <i>Optics Letters</i> , 2016 , 41, 3747-50	3	6
182	Open-air, broad-bandwidth trace gas sensing with a mid-infrared optical frequency comb. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 119, 327-338	1.9	24
181	Attosecond timing in optical-to-electrical conversion. <i>Optica</i> , 2015 , 2, 141	8.6	35
180	Dual-microcavity narrow-linewidth Brillouin laser. <i>Optica</i> , 2015 , 2, 225	8.6	67
179	Broadly tunable, low timing jitter, high repetition rate optoelectronic comb generator. <i>Electronics Letters</i> , 2015 , 51, 1596-1598	1.1	6
178	Mid-infrared optical frequency combs based on difference frequency generation for molecular spectroscopy. <i>Optics Express</i> , 2015 , 23, 26814-24	3.3	92
177	Noise and dynamics of stimulated-Brillouin-scattering microresonator lasers. <i>Physical Review A</i> , 2015 , 91,	2.6	13

176	Phase steps and resonator detuning measurements in microresonator frequency combs. <i>Nature Communications</i> , 2015 , 6, 5668	17.4	55
175	Self-referencing a CW laser with efficient nonlinear optics 2015 ,		2
174	A low-dispersion Fabry-Perot cavity for generation of a 30 GHz astrocomb spanning 140 nm 2015 ,		1
173	High-Power and High-Linearity Photodetector Modules for Microwave Photonic Applications. <i>Journal of Lightwave Technology</i> , 2014 , 32, 3810-3816	4	25
172	Phase and coherence of optical microresonator frequency combs. <i>Physical Review A</i> , 2014 , 89,	2.6	15
171	Electro-optical frequency division and stable microwave synthesis. <i>Science</i> , 2014 , 345, 309-13	33.3	77
170	The habitable-zone planet finder calibration system 2014 ,		5
169	The Habitable-zone Planet Finder: A status update on the development of a stabilized fiber-fed near-infrared spectrograph for the for the Hobby-Eberly telescope 2014 ,		56
168	Optical amplification and pulse interleaving for low-noise photonic microwave generation. <i>Optics Letters</i> , 2014 , 39, 1581-4	3	21
167	Supercontinuum generation in an on-chip silica waveguide. <i>Optics Letters</i> , 2014 , 39, 1046-8	3	50
166	Microresonator frequency comb optical clock. <i>Optica</i> , 2014 , 1, 10	8.6	229
165	Tunable, stable source of femtosecond pulses near 2 μ m via supercontinuum of an Erbium mode-locked laser. <i>Optics Express</i> , 2014 , 22, 28400-11	3.3	10
164	Pump frequency noise coupling into a microcavity by thermo-optic locking. <i>Optics Express</i> , 2014 , 22, 14559-67	3.67	10
163	Broadband noise limit in the photodetection of ultralow jitter optical pulses. <i>Physical Review Letters</i> , 2014 , 113, 203901	7.4	20
162	Self-injection locking and phase-locked states in microresonator-based optical frequency combs. <i>Physical Review Letters</i> , 2014 , 112, 043905	7.4	84
161	Optical phase-noise dynamics of Titanium:sapphire optical frequency combs. <i>Optics Communications</i> , 2014 , 320, 84-87	2	2
160	A frequency-stabilized Yb:KYW femtosecond laser frequency comb and its application to low-phase-noise microwave generation. <i>Applied Physics B: Lasers and Optics</i> , 2013 , 112, 565-570	1.9	12
159	Photonic microwave generation with high-power photodiodes 2013 ,		2

158	Laser-machined ultra-high-Q microrod resonators for nonlinear optics. <i>Applied Physics Letters</i> , 2013 , 102, 221119	3.4	54
157	Analysis of shot noise in the detection of ultrashort optical pulse trains. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 1775	1.7	28
156	Exploiting shot noise correlations in the photodetection of ultrashort optical pulse trains. <i>Nature Photonics</i> , 2013 , 7, 290-293	33.9	64
155	State-of-the-art RF signal generation from optical frequency division. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 1796-803	3.2	9
154	Photonic microwave generation with high-power photodiodes. <i>Optics Letters</i> , 2013 , 38, 1712-4	3	66
153	Parametric seeding of a microresonator optical frequency comb. <i>Optics Express</i> , 2013 , 21, 17615-24	3.3	53
152	Spiral resonators for on-chip laser frequency stabilization. <i>Nature Communications</i> , 2013 , 4, 2468	17.4	61
151	Mechanical Control of a Microrod-Resonator Optical Frequency Comb. <i>Physical Review X</i> , 2013 , 3,	9.1	31
150	Absolute and relative stability of an optical frequency reference based on spectral hole burning in Eu ³⁺ :Y ₂ SiO ₅ . <i>Physical Review Letters</i> , 2013 , 111, 237402	7.4	13
149	Hybrid electro-optically modulated microcombs. <i>Physical Review Letters</i> , 2012 , 109, 263901	7.4	61
148	Ultra-low-noise regenerative frequency divider for high-spectral-purity RF signal generation 2012 ,		2
147	A near-infrared frequency comb for Y+J band astronomical spectroscopy 2012 ,		5
146	2012 ,		2
145	Mid-infrared upconversion spectroscopy based on a Yb: fiber femtosecond laser. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 107, 31-39	1.9	28
144	Mid-infrared virtually imaged phased array spectrometer for rapid and broadband trace gas detection. <i>Optics Letters</i> , 2012 , 37, 3285-7	3	71
143	Generation of a 660-2100 nm laser frequency comb based on an erbium fiber laser. <i>Optics Letters</i> , 2012 , 37, 2199-201	3	28
142	Demonstration of on-sky calibration of astronomical spectra using a 25 GHz near-IR laser frequency comb. <i>Optics Express</i> , 2012 , 20, 6631-43	3.3	116
141	High-power, hybrid Er: fiber/Tm: fiber frequency comb source in the 2 μ m wavelength region. <i>Optics Letters</i> , 2012 , 37, 1400-2	3	29

140	Broadband mid-infrared frequency upconversion and spectroscopy with an aperiodically poled LiNbO ₃ waveguide. <i>Optics Letters</i> , 2012 , 37, 4332-4	3	29
139	Sub-femtosecond absolute timing jitter with a 10 GHz hybrid photonic-microwave oscillator. <i>Applied Physics Letters</i> , 2012 , 100, 231111	3.4	28
138	Mechanical stabilization of a microrod-resonator optical frequency comb 2012 ,		1
137	A HIGH-RESOLUTION ATLAS OF URANIUM-NEON IN THE H BAND. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 199, 2	8	30
136	The habitable-zone planet finder: a stabilized fiber-fed NIR spectrograph for the Hobby-Eberly Telescope 2012 ,		92
135	Microresonator-based optical frequency combs. <i>Science</i> , 2011 , 332, 555-9	33.3	1091
134	Offset frequency dynamics and phase noise properties of a self-referenced 10 GHz Ti:sapphire frequency comb. <i>Optics Express</i> , 2011 , 19, 18440-51	3.3	20
133	Impact of dispersion on amplitude and frequency noise in a Yb-fiber laser comb. <i>Optics Letters</i> , 2011 , 36, 1578-80	3	85
132	Ultralow phase noise microwave generation with an Er: fiber-based optical frequency divider. <i>Optics Letters</i> , 2011 , 36, 3260-2	3	65
131	High-power broadband laser source tunable from 3.0 μm to 4.4 μm based on a femtosecond Yb: fiber oscillator. <i>Optics Letters</i> , 2011 , 36, 4020-2	3	74
130	Generation of ultrastable microwaves via optical frequency division. <i>Nature Photonics</i> , 2011 , 5, 425-429	33.9	419
129	A near infrared laser frequency comb for high precision Doppler planet surveys. <i>EPJ Web of Conferences</i> , 2011 , 16, 02002	0.3	2
128	. <i>IEEE Photonics Journal</i> , 2011 , 3, 140-151	1.8	98
127	Noise Floor Reduction of an Er:Fiber Laser-Based Photonic Microwave Generator. <i>IEEE Photonics Journal</i> , 2011 , 3, 1004-1012	1.8	42
126	Spectral and temporal characterization of a fused-quartz-microresonator optical frequency comb. <i>Physical Review A</i> , 2011 , 84,	2.6	116
125	2011 ,		1
124	Femtosecond frequency comb measurement of absolute frequencies and hyperfine coupling constants in cesium vapor. <i>Physical Review A</i> , 2010 , 81,	2.6	37
123	2010 ,		3

122	Grism-based pulse shaper for line-by-line control of more than 600 optical frequency comb lines. <i>Optics Letters</i> , 2010 , 35, 3264-6	3	9
121	The evolving optical frequency comb [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, B51	1.7	356
120	A 12.5 GHz-spaced optical frequency comb spanning >400 nm for near-infrared astronomical spectrograph calibration. <i>Review of Scientific Instruments</i> , 2010 , 81, 063105	1.7	77
119	Brillouin-enhanced hyperparametric generation of an optical frequency comb in a monolithic highly nonlinear fiber cavity pumped by a cw laser. <i>Physical Review Letters</i> , 2009 , 102, 193902	7.4	61
118	Spin-1/2 optical lattice clock. <i>Physical Review Letters</i> , 2009 , 103, 063001	7.4	181
117	10-GHz self-referenced optical frequency comb. <i>Science</i> , 2009 , 326, 681	33.3	150
116	Low-noise synthesis of microwave and millimetre-wave signals with optical frequency comb generator. <i>Electronics Letters</i> , 2009 , 45, 170	1.1	9
115	Probing interactions between ultracold fermions. <i>Science</i> , 2009 , 324, 360-3	33.3	81
114	Generation of a 20 GHz train of subpicosecond pulses with a stabilized optical-frequency-comb generator. <i>Optics Letters</i> , 2009 , 34, 85-7	3	10
113	Generation of 20 GHz, sub-40 fs pulses at 960 nm via repetition-rate multiplication. <i>Optics Letters</i> , 2009 , 34, 872-4	3	39
112	Improved signal-to-noise ratio of 10 GHz microwave signals generated with a mode-filtered femtosecond laser frequency comb. <i>Optics Express</i> , 2009 , 17, 3331-40	3.3	72
111	A deep-UV optical frequency comb at 205 nm. <i>Optics Express</i> , 2009 , 17, 9183-90	3.3	33
110	Optical frequency stabilization of a 10 GHz Ti:sapphire frequency comb by saturated absorption spectroscopy in ⁸⁷ Rb. <i>Physical Review A</i> , 2009 , 80,	2.6	34
109	Measurement of gravitational time delay using drag-free spacecraft and an optical clock. <i>Proceedings of the International Astronomical Union</i> , 2009 , 5, 414-419	0.1	4
108	ALPHA-DOT OR NOT: COMPARISON OF TWO SINGLE ATOM OPTICAL CLOCKS 2009 ,		3
107	Toward Ultrafast Optical Waveform Synthesis with a Stabilized Ti:Sapphire Frequency Comb. <i>Springer Series in Chemical Physics</i> , 2009 , 861-863	0.3	
106	Passively mode-locked 10 GHz femtosecond Ti:sapphire laser. <i>Optics Letters</i> , 2008 , 33, 1905-7	3	96
105	Frequency ratio of Al ⁺ and Hg ⁺ single-ion optical clocks; metrology at the 17th decimal place. <i>Science</i> , 2008 , 319, 1808-12	33.3	986

104	1-GHz repetition rate femtosecond OPO with stabilized offset between signal and idler frequency combs. <i>Optics Express</i> , 2008 , 16, 5397-405	3.3	20
103	Toward a low-jitter 10 GHz pulsed source with an optical frequency comb generator. <i>Optics Express</i> , 2008 , 16, 8498-508	3.3	39
102	Sr lattice clock at 1×10^{-16} fractional uncertainty by remote optical evaluation with a Ca clock. <i>Science</i> , 2008 , 319, 1805-8	33.3	401
101	The absolute frequency of the 87Sr optical clock transition. <i>Metrologia</i> , 2008 , 45, 539-548	2.1	114
100	Optical lattice induced light shifts in an Yb atomic clock. <i>Physical Review Letters</i> , 2008 , 100, 103002	7.4	107
99	Frequency evaluation of the doubly forbidden $S_{01} \rightarrow P_{03}$ transition in bosonic Yb^{174} . <i>Physical Review A</i> , 2008 , 77,	2.6	56
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3			1
2	Direct RF to optical frequency measurements with a femtosecond laser comb		1
1	All-optical atomic clocks		1