

Scott Diddams

List of Publications by Citations

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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 | Carrier-envelope phase control of femtosecond mode-locked lasers and direct optical frequency synthesis. <i>Science</i> , 2000 , 288, 635-40 | 33.3 | 1766 |
| 282 | Microresonator-based optical frequency combs. <i>Science</i> , 2011 , 332, 555-9 | 33.3 | 1091 |
| 281 | 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 |
| 280 | Direct link between microwave and optical frequencies with a 300 THz femtosecond laser comb. <i>Physical Review Letters</i> , 2000 , 84, 5102-5 | 7.4 | 789 |
| 279 | Molecular fingerprinting with the resolved modes of a femtosecond laser frequency comb. <i>Nature</i> , 2007 , 445, 627-30 | 50.4 | 476 |
| 278 | An optical clock based on a single trapped 199Hg ⁺ ion. <i>Science</i> , 2001 , 293, 825-8 | 33.3 | 448 |
| 277 | Generation of ultrastable microwaves via optical frequency division. <i>Nature Photonics</i> , 2011 , 5, 425-429 | 33.9 | 419 |
| 276 | Sr lattice clock at 1 x 10 ⁽⁻¹⁶⁾ fractional uncertainty by remote optical evaluation with a Ca clock. <i>Science</i> , 2008 , 319, 1805-8 | 33.3 | 401 |
| 275 | The evolving optical frequency comb [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, B51 | 1.7 | 356 |
| 274 | An optical-frequency synthesizer using integrated photonics. <i>Nature</i> , 2018 , 557, 81-85 | 50.4 | 297 |
| 273 | Phase-locked, erbium-fiber-laser-based frequency comb in the near infrared. <i>Optics Letters</i> , 2004 , 29, 250-2 | 3 | 284 |
| 272 | Fundamental noise limitations to supercontinuum generation in microstructure fiber. <i>Physical Review Letters</i> , 2003 , 90, 113904 | 7.4 | 255 |
| 271 | Microresonator frequency comb optical clock. <i>Optica</i> , 2014 , 1, 10 | 8.6 | 229 |
| 270 | Optical frequency synthesis and comparison with uncertainty at the 10 ⁽⁻¹⁹⁾ level. <i>Science</i> , 2004 , 303, 1843-5 | 33.3 | 219 |
| 269 | Single-atom optical clock with high accuracy. <i>Physical Review Letters</i> , 2006 , 97, 020801 | 7.4 | 208 |
| 268 | Absolute frequency measurements of the Hg ⁺ and Ca optical clock transitions with a femtosecond laser. <i>Physical Review Letters</i> , 2001 , 86, 4996-9 | 7.4 | 196 |
| 267 | State of the Field: Extreme Precision Radial Velocities. <i>Publications of the Astronomical Society of the Pacific</i> , 2016 , 128, 066001 | 5 | 191 |

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| 266 | Testing the stability of fundamental constants with the 199Hg+ single-ion optical clock. <i>Physical Review Letters</i> , 2003 , 90, 150802 | 7.4 | 187 |
| 265 | Spin-1/2 optical lattice clock. <i>Physical Review Letters</i> , 2009 , 103, 063001 | 7.4 | 181 |
| 264 | Observation of the 1S0-->3P0 clock transition in 27Al+. <i>Physical Review Letters</i> , 2007 , 98, 220801 | 7.4 | 169 |
| 263 | Standards of time and frequency at the outset of the 21st century. <i>Science</i> , 2004 , 306, 1318-24 | 33.3 | 169 |
| 262 | Precision atomic spectroscopy for improved limits on variation of the fine structure constant and local position invariance. <i>Physical Review Letters</i> , 2007 , 98, 070801 | 7.4 | 164 |
| 261 | 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 |
| 260 | Soliton crystals in Kerr resonators. <i>Nature Photonics</i> , 2017 , 11, 671-676 | 33.9 | 154 |
| 259 | Architecture for the photonic integration of an optical atomic clock. <i>Optica</i> , 2019 , 6, 680 | 8.6 | 153 |
| 258 | 10-GHz self-referenced optical frequency comb. <i>Science</i> , 2009 , 326, 681 | 33.3 | 150 |
| 257 | Propagation Dynamics of Intense Femtosecond Pulses: Multiple Splittings, Coalescence, and Continuum Generation. <i>Physical Review Letters</i> , 1999 , 82, 1430-1433 | 7.4 | 144 |
| 256 | Stably accessing octave-spanning microresonator frequency combs in the soliton regime. <i>Optica</i> , 2017 , 4, 193-203 | 8.6 | 134 |
| 255 | Octave-spanning Ti:sapphire laser with a repetition rate >1 GHz for optical frequency measurements and comparisons. <i>Optics Letters</i> , 2006 , 31, 1011-3 | 3 | 130 |
| 254 | Dispersion measurements with white-light interferometry. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996 , 13, 1120 | 1.7 | 129 |
| 253 | Delivery of high-stability optical and microwave frequency standards over an optical fiber network. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 1459 | 1.7 | 127 |
| 252 | Spectral and temporal characterization of a fused-quartz-microresonator optical frequency comb. <i>Physical Review A</i> , 2011 , 84, | 2.6 | 116 |
| 251 | 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 |
| 250 | The absolute frequency of the 87Sr optical clock transition. <i>Metrologia</i> , 2008 , 45, 539-548 | 2.1 | 114 |
| 249 | Optical lattice induced light shifts in an Yb atomic clock. <i>Physical Review Letters</i> , 2008 , 100, 103002 | 7.4 | 107 |

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| 248 | Searching for Exoplanets Using a Microresonator Astrocomb. <i>Nature Photonics</i> , 2019 , 13, 25-30 | 33.9 | 107 |
| 247 | Femtosecond-laser-based synthesis of ultrastable microwave signals from optical frequency references. <i>Optics Letters</i> , 2005 , 30, 667-9 | 3 | 100 |
| 246 | High-resolution spectroscopy with a femtosecond laser frequency comb. <i>Optics Letters</i> , 2005 , 30, 1734-6 | 3 | 99 |
| 245 | . <i>IEEE Photonics Journal</i> , 2011 , 3, 140-151 | 1.8 | 98 |
| 244 | Phase-coherent microwave-to-optical link with a self-referenced microcomb. <i>Nature Photonics</i> , 2016 , 10, 516-520 | 33.9 | 97 |
| 243 | Molecular fingerprinting with bright, broadband infrared frequency combs. <i>Optica</i> , 2018 , 5, 727 | 8.6 | 96 |
| 242 | Passively mode-locked 10 GHz femtosecond Ti:sapphire laser. <i>Optics Letters</i> , 2008 , 33, 1905-7 | 3 | 96 |
| 241 | Coherent optical phase transfer over a 32-km fiber with 1 s instability at 10^{-17} . <i>Physical Review Letters</i> , 2007 , 99, 153601 | 7.4 | 94 |
| 240 | Optical frequency combs: Coherently uniting the electromagnetic spectrum. <i>Science</i> , 2020 , 369, | 33.3 | 93 |
| 239 | Mid-infrared optical frequency combs based on difference frequency generation for molecular spectroscopy. <i>Optics Express</i> , 2015 , 23, 26814-24 | 3.3 | 92 |
| 238 | The habitable-zone planet finder: a stabilized fiber-fed NIR spectrograph for the Hobby-Eberly Telescope 2012 , | | 92 |
| 237 | Phase-coherent link from optical to microwave frequencies by means of the broadband continuum from a 1-GHz Ti:sapphire femtosecondoscillator. <i>Optics Letters</i> , 2002 , 27, 1842-4 | 3 | 88 |
| 236 | Astronomical spectrograph calibration with broad-spectrum frequency combs. <i>European Physical Journal D</i> , 2008 , 48, 57-66 | 1.3 | 87 |
| 235 | Impact of dispersion on amplitude and frequency noise in a Yb-fiber laser comb. <i>Optics Letters</i> , 2011 , 36, 1578-80 | 3 | 85 |
| 234 | Self-injection locking and phase-locked states in microresonator-based optical frequency combs. <i>Physical Review Letters</i> , 2014 , 112, 043905 | 7.4 | 84 |
| 233 | Optical frequency measurements of $6sS_{1/2} \rightarrow 6pP_{1/2}(D_1)$ transitions in Cs133 and their impact on the fine-structure constant. <i>Physical Review A</i> , 2006 , 73, | 2.6 | 83 |
| 232 | Optical frequency standards and measurements. <i>IEEE Journal of Quantum Electronics</i> , 2001 , 37, 1502-1513 | 13 | 82 |
| 231 | Probing interactions between ultracold fermions. <i>Science</i> , 2009 , 324, 360-3 | 33.3 | 81 |

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| 230 | Electronic synthesis of light. <i>Optica</i> , 2017 , 4, 406 | 8.6 | 80 |
| 229 | Stabilization of femtosecond laser frequency combs with subhertz residual linewidths. <i>Optics Letters</i> , 2004 , 29, 1081-3 | 3 | 78 |
| 228 | Electro-optical frequency division and stable microwave synthesis. <i>Science</i> , 2014 , 345, 309-13 | 33.3 | 77 |
| 227 | 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 |
| 226 | Observation and absolute frequency measurements of the 1S0-3P0 optical clock transition in neutral ytterbium. <i>Physical Review Letters</i> , 2005 , 95, 083003 | 7.4 | 77 |
| 225 | Coherent optical link over hundreds of metres and hundreds of terahertz with subfemtosecond timing jitter. <i>Nature Photonics</i> , 2007 , 1, 283-287 | 33.9 | 76 |
| 224 | Fundamental amplitude noise limitations to supercontinuum spectra generated in a microstructured fiber. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 77, 269-277 | 1.9 | 75 |
| 223 | 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 |
| 222 | 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 |
| 221 | Dispersion measurements of water with white-light interferometry. <i>Applied Optics</i> , 1998 , 37, 5679-86 | 1.7 | 72 |
| 220 | Mid-infrared virtually imaged phased array spectrometer for rapid and broadband trace gas detection. <i>Optics Letters</i> , 2012 , 37, 3285-7 | 3 | 71 |
| 219 | Amplitude and phase measurements of femtosecond pulse splitting in nonlinear dispersive media. <i>Optics Letters</i> , 1998 , 23, 379-81 | 3 | 70 |
| 218 | Low-noise synthesis of microwave signals from an optical source. <i>Electronics Letters</i> , 2005 , 41, 650 | 1.1 | 68 |
| 217 | Dual-microcavity narrow-linewidth Brillouin laser. <i>Optica</i> , 2015 , 2, 225 | 8.6 | 67 |
| 216 | Thermal and Nonlinear Dissipative-Soliton Dynamics in Kerr-Microresonator Frequency Combs. <i>Physical Review Letters</i> , 2018 , 121, 063902 | 7.4 | 66 |
| 215 | Photonic microwave generation with high-power photodiodes. <i>Optics Letters</i> , 2013 , 38, 1712-4 | 3 | 66 |
| 214 | 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 |
| 213 | Ultralow phase noise microwave generation with an Er: fiber-based optical frequency divider. <i>Optics Letters</i> , 2011 , 36, 3260-2 | 3 | 65 |

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| 212 | Broadband dispersion-engineered microresonator on a chip. <i>Nature Photonics</i> , 2016 , 10, 316-320 | 33.9 | 64 |
| 211 | Exploiting shot noise correlations in the photodetection of ultrashort optical pulse trains. <i>Nature Photonics</i> , 2013 , 7, 290-293 | 33.9 | 64 |
| 210 | Hybrid electro-optically modulated microcombs. <i>Physical Review Letters</i> , 2012 , 109, 263901 | 7.4 | 61 |
| 209 | Spiral resonators for on-chip laser frequency stabilization. <i>Nature Communications</i> , 2013 , 4, 2468 | 17.4 | 61 |
| 208 | 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 |
| 207 | Ultrafast electro-optic light with subcycle control. <i>Science</i> , 2018 , 361, 1358-1363 | 33.3 | 60 |
| 206 | Femtosecond-laser-based optical clockwork with instability. <i>Optics Letters</i> , 2002 , 27, 58-60 | 3 | 59 |
| 205 | Investigations of nonlinear femtosecond pulse propagation with the inclusion of Raman, shock, and third-order phase effects. <i>Physical Review A</i> , 1998 , 58, 3303-3310 | 2.6 | 58 |
| 204 | Photonic chip for laser stabilization to an atomic vapor with 10 ¹¹ instability. <i>Optica</i> , 2018 , 5, 443 | 8.6 | 57 |
| 203 | Analysis of noise mechanisms limiting the frequency stability of microwave signals generated with a femtosecond laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003 , 9, 1059-1065 | 3.8 | 57 |
| 202 | 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 |
| 201 | Frequency evaluation of the doubly forbidden S01->P03 transition in bosonic Yb174. <i>Physical Review A</i> , 2008 , 77, | 2.6 | 56 |
| 200 | Heterogeneously Integrated GaAs Waveguides on Insulator for Efficient Frequency Conversion. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800149 | 8.3 | 55 |
| 199 | Phase steps and resonator detuning measurements in microresonator frequency combs. <i>Nature Communications</i> , 2015 , 6, 5668 | 17.4 | 55 |
| 198 | Self-referenced frequency combs using high-efficiency silicon-nitride waveguides. <i>Optics Letters</i> , 2017 , 42, 2314-2317 | 3 | 54 |
| 197 | Laser-machined ultra-high-Q microrod resonators for nonlinear optics. <i>Applied Physics Letters</i> , 2013 , 102, 221119 | 3.4 | 54 |
| 196 | Precision phase control of an ultrawide-bandwidth femtosecond laser: a network of ultrastable frequency marks across the visible spectrum. <i>Optics Letters</i> , 2000 , 25, 1675-7 | 3 | 54 |
| 195 | Parametric seeding of a microresonator optical frequency comb. <i>Optics Express</i> , 2013 , 21, 17615-24 | 3.3 | 53 |

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| 194 | Optical frequency measurement across a 104-THz gap with a femtosecond laser frequency comb. <i>Optics Letters</i> , 2000 , 25, 186-8 | 3 | 53 |
| 193 | Coherent ultra-violet to near-infrared generation in silica ridge waveguides. <i>Nature Communications</i> , 2017 , 8, 13922 | 17.4 | 50 |
| 192 | Infrared electric field sampled frequency comb spectroscopy. <i>Science Advances</i> , 2019 , 5, eaaw8794 | 14.3 | 50 |
| 191 | Supercontinuum generation in an on-chip silica waveguide. <i>Optics Letters</i> , 2014 , 39, 1046-8 | 3 | 50 |
| 190 | Optical frequency/wavelength references. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005 , 38, S469-S495 | 1.3 | 49 |
| 189 | Broadband optical frequency comb generation with a phase-modulated parametric oscillator. <i>Optics Letters</i> , 1999 , 24, 1747-9 | 3 | 49 |
| 188 | Ultrasensitive spectroscopy, the ultrastable lasers, the ultrafast lasers, and the seriously nonlinear fiber: a new alliance for physics and metrology. <i>IEEE Journal of Quantum Electronics</i> , 2001 , 37, 1482-1492 ² | | 48 |
| 187 | Mode-locked laser pulse trains with subfemtosecond timing jitter synchronized to an optical reference oscillator. <i>Optics Letters</i> , 2003 , 28, 663-5 | 3 | 47 |
| 186 | Stellar spectroscopy in the near-infrared with a laser frequency comb. <i>Optica</i> , 2019 , 6, 233 | 8.6 | 47 |
| 185 | Design and control of femtosecond lasers for optical clocks and the synthesis of low-noise optical and microwave signals. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003 , 9, 1072-1080 | 3.8 | 46 |
| 184 | Study of the excess noise associated with demodulation of ultra-short infrared pulses. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 1068-74 | 3.2 | 46 |
| 183 | Double Gires-Tournois interferometer negative-dispersion mirrors for use in tunable mode-locked lasers. <i>Optics Letters</i> , 2000 , 25, 275-7 | 3 | 45 |
| 182 | Frequency comb generation using femtosecond pulses and cross-phase modulation in optical fiber at arbitrary center frequencies. <i>Optics Letters</i> , 2000 , 25, 308-10 | 3 | 44 |
| 181 | Optical-Frequency Measurements with a Kerr Microcomb and Photonic-Chip Supercontinuum. <i>Physical Review Applied</i> , 2018 , 9, | 4.3 | 42 |
| 180 | Noise Floor Reduction of an Er:Fiber Laser-Based Photonic Microwave Generator. <i>IEEE Photonics Journal</i> , 2011 , 3, 1004-1012 | 1.8 | 42 |
| 179 | Optical-to-microwave frequency comparison with fractional uncertainty of 10 ⁻¹⁵ . <i>Applied Physics B: Lasers and Optics</i> , 2007 , 89, 167-176 | 1.9 | 41 |
| 178 | Diode-pumped Yb:KYW femtosecond laser frequency comb with stabilized carrier-envelope offset frequency. <i>European Physical Journal D</i> , 2008 , 48, 19-26 | 1.3 | 40 |
| 177 | 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 |

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| 176 | 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 |
| 175 | Kilohertz-resolution spectroscopy of cold atoms with an optical frequency comb. <i>Physical Review Letters</i> , 2006 , 97, 163905 | 7.4 | 39 |
| 174 | Single-branch Er: fiber frequency comb for precision optical metrology with 10^{-18} fractional instability. <i>Optica</i> , 2017 , 4, 879 | 8.6 | 37 |
| 173 | Femtosecond frequency comb measurement of absolute frequencies and hyperfine coupling constants in cesium vapor. <i>Physical Review A</i> , 2010 , 81, | 2.6 | 37 |
| 172 | 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 |
| 171 | Interlocking Kerr-microresonator frequency combs for microwave to optical synthesis. <i>Optics Letters</i> , 2018 , 43, 2933-2936 | 3 | 36 |
| 170 | Attosecond timing in optical-to-electrical conversion. <i>Optica</i> , 2015 , 2, 141 | 8.6 | 35 |
| 169 | Compact, thermal-noise-limited reference cavity for ultra-low-noise microwave generation. <i>Optics Letters</i> , 2017 , 42, 1277-1280 | 3 | 34 |
| 168 | Optical frequency stabilization of a 10 GHz Ti:sapphire frequency comb by saturated absorption spectroscopy in ⁸⁷ Rubidium. <i>Physical Review A</i> , 2009 , 80, | 2.6 | 34 |
| 167 | A deep-UV optical frequency comb at 205 nm. <i>Optics Express</i> , 2009 , 17, 9183-90 | 3.3 | 33 |
| 166 | Spectrally resolved optical frequency comb from a self-referenced 5 GHz femtosecond laser. <i>Optics Letters</i> , 2007 , 32, 2553-5 | 3 | 32 |
| 165 | 420-MHz Cr:forsterite femtosecond ring laser and continuum generation in the 1-2-micrometre range. <i>Optics Letters</i> , 2003 , 28, 1368-70 | 3 | 32 |
| 164 | Coherent optical clock down-conversion for microwave frequencies with 10^{-10} instability. <i>Science</i> , 2020 , 368, 889-892 | 33.3 | 31 |
| 163 | Mid-infrared frequency comb generation via cascaded quadratic nonlinearities in quasi-phase-matched waveguides. <i>Optics Letters</i> , 2018 , 43, 1678-1681 | 3 | 31 |
| 162 | High-harmonic generation in periodically poled waveguides. <i>Optica</i> , 2017 , 4, 1538 | 8.6 | 31 |
| 161 | Mechanical Control of a Microrod-Resonator Optical Frequency Comb. <i>Physical Review X</i> , 2013 , 3, | 9.1 | 31 |
| 160 | Frequency Uncertainty for Optically Referenced Femtosecond Laser Frequency Combs. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 139-146 | 2 | 31 |
| 159 | A HIGH-RESOLUTION ATLAS OF URANIUM-NEON IN THE H BAND. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 199, 2 | 8 | 30 |

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| 158 | Absolute frequency measurement of the neutral ⁴⁰ Ca optical frequency standard at 657 nm based on microkelvin atoms. <i>Metrologia</i> , 2007 , 44, 146-151 | 2.1 | 30 |
| 157 | Stabilized frequency comb with a self-referenced femtosecond Cr:forsterite laser. <i>Optics Letters</i> , 2005 , 30, 932-4 | 3 | 30 |
| 156 | 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 |
| 155 | Broadband mid-infrared frequency upconversion and spectroscopy with an aperiodically poled LiNbO ₃ waveguide. <i>Optics Letters</i> , 2012 , 37, 4332-4 | 3 | 29 |
| 154 | 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 |
| 153 | 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 |
| 152 | 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 |
| 151 | Sub-femtosecond absolute timing jitter with a 10 GHz hybrid photonic-microwave oscillator. <i>Applied Physics Letters</i> , 2012 , 100, 231111 | 3.4 | 28 |
| 150 | Photonic-Chip Supercontinuum with Tailored Spectra for Counting Optical Frequencies. <i>Physical Review Applied</i> , 2017 , 8, | 4.3 | 28 |
| 149 | Self-organized nonlinear gratings for ultrafast nanophotonics. <i>Nature Photonics</i> , 2019 , 13, 494-499 | 33.9 | 27 |
| 148 | Versatile silicon-waveguide supercontinuum for coherent mid-infrared spectroscopy. <i>APL Photonics</i> , 2018 , 3, 036102 | 5.2 | 27 |
| 147 | The measurement of optical frequencies. <i>Metrologia</i> , 2005 , 42, S105-S124 | 2.1 | 27 |
| 146 | Multifunctional integrated photonics in the mid-infrared with suspended AlGaAs on silicon. <i>Optica</i> , 2019 , 6, 1246 | 8.6 | 27 |
| 145 | Noise properties of microwave signals synthesized with femtosecond lasers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 736-45 | 3.2 | 26 |
| 144 | Differential intracavity phase spectroscopy and its application to a three-level system in samarium. <i>Physical Review A</i> , 1998 , 58, 2252-2264 | 2.6 | 26 |
| 143 | Quasi-Phase-Matched Supercontinuum Generation in Photonic Waveguides. <i>Physical Review Letters</i> , 2018 , 120, 053903 | 7.4 | 25 |
| 142 | Terahertz-Rate Kerr-Microresonator Optical Clockwork. <i>Physical Review X</i> , 2019 , 9, | 9.1 | 25 |
| 141 | High-Power and High-Linearity Photodetector Modules for Microwave Photonic Applications. <i>Journal of Lightwave Technology</i> , 2014 , 32, 3810-3816 | 4 | 25 |

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| 140 | Broadband phase-coherent optical frequency synthesis with actively linked Ti:sapphire and Cr:forsterite femtosecond lasers. <i>Optics Letters</i> , 2004 , 29, 403-5 | 3 | 25 |
| 139 | Optically referenced broadband electronic synthesizer with 15 digits of resolution. <i>Laser and Photonics Reviews</i> , 2016 , 10, 780-790 | 8.3 | 25 |
| 138 | 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 |
| 137 | Direct Kerr frequency comb atomic spectroscopy and stabilization. <i>Science Advances</i> , 2020 , 6, eaax6230 | 14.3 | 23 |
| 136 | Infrared frequency comb generation and spectroscopy with suspended silicon nanophotonic waveguides. <i>Optica</i> , 2019 , 6, 1269 | 8.6 | 23 |
| 135 | Tuning Kerr-Soliton Frequency Combs to Atomic Resonances. <i>Physical Review Applied</i> , 2019 , 11, | 4.3 | 22 |
| 134 | Deuterated silicon nitride photonic devices for broadband optical frequency comb generation. <i>Optics Letters</i> , 2018 , 43, 1527-1530 | 3 | 22 |
| 133 | Optical frequency measurements of $6sS102\beta P302$ transition in a Cs133 atomic beam using a femtosecond laser frequency comb. <i>Physical Review A</i> , 2004 , 70, | 2.6 | 22 |
| 132 | Coherent frequency combs for spectroscopy across the 3β μm region. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1 | 1.9 | 21 |
| 131 | Optical amplification and pulse interleaving for low-noise photonic microwave generation. <i>Optics Letters</i> , 2014 , 39, 1581-4 | 3 | 21 |
| 130 | Direct comparison of two cold-atom-based optical frequency standards by using a femtosecond-laser comb. <i>Optics Letters</i> , 2001 , 26, 102-4 | 3 | 21 |
| 129 | Complete characterization of femtosecond pulses using an all-electronic detector. <i>Optics Communications</i> , 1996 , 123, 567-573 | 2 | 21 |
| 128 | A microrod-resonator Brillouin laser with 240 Hz absolute linewidth. <i>New Journal of Physics</i> , 2016 , 18, 045001 | 2.9 | 21 |
| 127 | Broadband noise limit in the photodetection of ultralow jitter optical pulses. <i>Physical Review Letters</i> , 2014 , 113, 203901 | 7.4 | 20 |
| 126 | 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 |
| 125 | 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 |
| 124 | 30 GHz electro-optic frequency comb spanning 300 THz in the near infrared and visible. <i>Optics Letters</i> , 2019 , 44, 2673 | 3 | 20 |
| 123 | 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 |

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|-----|---|------|----|
| 122 | Characterizing the nonlinear propagation of femtosecond pulses in bulk media. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1998 , 4, 306-316 | 3.8 | 19 |
| 121 | Frequency measurements and hyperfine structure of the R(85)330 transition of molecular iodine with a femtosecond optical comb. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004 , 21, 88 | 1.7 | 19 |
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