Scott Diddams

List of Publications by Year in descending order

418 papers	25,960 citations	5876 81 h-index	6979 154 g-index
422 all docs	422 docs citations	422 times ranked	9743 citing authors

#	Article	IF	Citations
1	Carrier-Envelope Phase Control of Femtosecond Mode-Locked Lasers and Direct Optical Frequency Synthesis. Science, 2000, 288, 635-639.	6.0	2,344
2	Microresonator-Based Optical Frequency Combs. Science, 2011, 332, 555-559.	6.0	1,685
3	Frequency Ratio of Al ⁺ and Hg ⁺ Single-Ion Optical Clocks; Metrology at the 17th Decimal Place. Science, 2008, 319, 1808-1812.	6.0	1,185
4	Direct Link between Microwave and Optical Frequencies with a 300 THz Femtosecond Laser Comb. Physical Review Letters, 2000, 84, 5102-5105.	2.9	1,030
5	Molecular fingerprinting with the resolved modes of a femtosecond laser frequency comb. Nature, 2007, 445, 627-630.	13.7	659
6	Generation of ultrastable microwaves via optical frequency division. Nature Photonics, 2011, 5, 425-429.	15.6	643
7	An Optical Clock Based on a Single Trapped 199Hg+ Ion. Science, 2001, 293, 825-828.	6.0	607
8	An optical-frequency synthesizer using integrated photonics. Nature, 2018, 557, 81-85.	13.7	550
9	The evolving optical frequency comb [Invited]. Journal of the Optical Society of America B: Optical Physics, 2010, 27, B51.	0.9	507
10	Sr Lattice Clock at 1 Ã— 10 ^{â€“16} Fractional Uncertainty by Remote Optical Evaluation with a Ca Clock. Science, 2008, 319, 1805-1808.	6.0	500
11	Microresonator frequency comb optical clock. Optica, 2014, 1, 10.	4.8	367
12	Phase-locked, erbium-fiber-laser-based frequency comb in the near infrared. Optics Letters, 2004, 29, 250.	1.7	362
13	Architecture for the photonic integration of an optical atomic clock. Optica, 2019, 6, 680.	4.8	346
14	Fundamental Noise Limitations to Supercontinuum Generation in Microstructure Fiber. Physical Review Letters, 2003, 90, 113904.	2.9	329
15	Soliton crystals in Kerr resonators. Nature Photonics, 2017, 11, 671-676.	15.6	300
16	Optical frequency combs: Coherently uniting the electromagnetic spectrum. Science, 2020, 369, .	6.0	294
17	Optical Frequency Synthesis and Comparison with Uncertainty at the 10-19 Level. Science, 2004, 303, 1843-1845.	6.0	292
18	State of the Field: Extreme Precision Radial Velocities. Publications of the Astronomical Society of the Pacific, 2016, 128, 066001.	1.0	253

#	Article	IF	Citations
19	Single-Atom Optical Clock with High Accuracy. Physical Review Letters, 2006, 97, 020801.	2.9	251
20	High-coherence mid-infrared dual-comb spectroscopy spanning 2.6 to 5.2â€‰Î¼m. Nature Photonics, 2018, 12, 202-208.	15.6	250
21	Absolute Frequency Measurements of theHg+and Ca Optical Clock Transitions with a Femtosecond Laser. Physical Review Letters, 2001, 86, 4996-4999.	2.9	241
22	Spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:math>Optical Lattice Clock. Physical Review Letters, 2009, 103, 063001.	2.9	237
23	Stably accessing octave-spanning microresonator frequency combs in the soliton regime. Optica, 2017, 4, 193.	4.8	235
24	Testing the Stability of Fundamental Constants with theHg+199Single-Ion Optical Clock. Physical Review Letters, 2003, 90, 150802.	2.9	228
25	Standards of Time and Frequency at the Outset of the 21st Century. Science, 2004, 306, 1318-1324.	6.0	216
26	Observation of theS01â†'P03Clock Transition inAl+27. Physical Review Letters, 2007, 98, 220801.	2.9	196
27	Searching for exoplanets using a microresonator astrocomb. Nature Photonics, 2019, 13, 25-30.	15.6	194
28	Octave-spanning Ti:sapphire laser with a repetition rate >1 GHz for optical frequency measurements and comparisons. Optics Letters, 2006, 31, 1011.	1.7	185
29	10-GHz Self-Referenced Optical Frequency Comb. Science, 2009, 326, 681-681.	6.0	185
30	Precision Atomic Spectroscopy for Improved Limits on Variation of the Fine Structure Constant and Local Position Invariance. Physical Review Letters, 2007, 98, 070801.	2.9	184
31	Dispersion measurements with white-light interferometry. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 1120.	0.9	175
32	Propagation Dynamics of Intense Femtosecond Pulses: Multiple Splittings, Coalescence, and Continuum Generation. Physical Review Letters, 1999, 82, 1430-1433.	2.9	170
33	Delivery of high-stability optical and microwave frequency standards over an optical fiber network. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1459.	0.9	167
34	Molecular fingerprinting with bright, broadband infrared frequency combs. Optica, 2018, 5, 727.	4.8	160
35	Demonstration of on-sky calibration of astronomical spectra using a 25 GHz near-IR laser frequency comb. Optics Express, 2012, 20, 6631.	1.7	154
36	Spectral and temporal characterization of a fused-quartz-microresonator optical frequency comb. Physical Review A, 2011, 84, .	1.0	148

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37	The absolute frequency of the⁸⁷Sr optical clock transition. Metrologia, 2008, 45, 539-548.	0.6	139
38	Electro-optical frequency division and stable microwave synthesis. Science, 2014, 345, 309-313.	6.0	138
39	Femtosecond-laser-based synthesis of ultrastable microwave signals from optical frequency references. Optics Letters, 2005, 30, 667.	1.7	137
40	Phase-coherent microwave-to-optical link with a self-referenced microcomb. Nature Photonics, 2016, 10, 516-520.	15.6	133
41	Thermal and Nonlinear Dissipative-Soliton Dynamics in Kerr-Microresonator Frequency Combs. Physical Review Letters, 2018, 121, 063902.	2.9	133
42	Optical Lattice Induced Light Shifts in an Yb Atomic Clock. Physical Review Letters, 2008, 100, 103002.	2.9	132
43	Mid-infrared optical frequency combs based on difference frequency generation for molecular spectroscopy. Optics Express, 2015, 23, 26814.	1.7	131
44	Characterization of Power-to-Phase Conversion in High-Speed P-I-N Photodiodes. IEEE Photonics Journal, 2011, 3, 140-151.	1.0	128
45	Passively mode-locked 10 GHz femtosecond Ti:sapphire laser. Optics Letters, 2008, 33, 1905.	1.7	124
46	Impact of dispersion on amplitude and frequency noise in a Yb-fiber laser comb. Optics Letters, 2011, 36, 1578.	1.7	122
47	The habitable-zone planet finder: a stabilized fiber-fed NIR spectrograph for the Hobby-Eberly Telescope. Proceedings of SPIE, 2012, , .	0.8	121
48	Phase-coherent link from optical to microwave frequencies by means of the broadband continuum from a 1-GHz Ti:sapphire femtosecond oscillator. Optics Letters, 2002, 27, 1842.	1.7	115
49	Coherent Optical Phase Transfer over a 32-km Fiber with 1Âs Instability at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mn>10</mml:mn><mml:mrow><mml:mo>â^'</mml:mo><mml:mn>17</mml:mn></mml:mrow><m Physical Review Letters, 2007, 99, 153601.	2.9	115
50	Electronic synthesis of light. Optica, 2017, 4, 406.	4.8	115
51	Ultrafast electro-optic light with subcycle control. Science, 2018, 361, 1358-1363.	6.0	114
52	High-resolution spectroscopy with a femtosecond laser frequency comb. Optics Letters, 2005, 30, 1734.	1.7	111
53	Low-noise synthesis of microwave signals from an optical source. Electronics Letters, 2005, 41, 650.	0.5	107
54	Astronomical spectrograph calibration with broad-spectrum frequency combs. European Physical Journal D, 2008, 48, 57-66.	0.6	107

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55	Hybrid Electro-Optically Modulated Microcombs. Physical Review Letters, 2012, 109, 263901.	2.9	107
56	Self-Injection Locking and Phase-Locked States in Microresonator-Based Optical Frequency Combs. Physical Review Letters, 2014, 112, 043905.	2.9	107
57	Optical frequency standards and measurements. IEEE Journal of Quantum Electronics, 2001, 37, 1502-1513.	1.0	104
58	Coherent optical link over hundreds of metres and hundreds of terahertz with subfemtosecond timing jitter. Nature Photonics, 2007, 1, 283-287.	15.6	103
59	Mid-infrared virtually imaged phased array spectrometer for rapid and broadband trace gas detection. Optics Letters, 2012, 37, 3285.	1.7	102
60	Stabilization of femtosecond laser frequency combs with subhertz residual linewidths. Optics Letters, 2004, 29, 1081.	1.7	101
61	Improved signal-to-noise ratio of 10 GHz microwave signals generated with a mode-filtered femtosecond laser frequency comb. Optics Express, 2009, 17, 3331.	1.7	100
62	Infrared electric field sampled frequency comb spectroscopy. Science Advances, 2019, 5, eaaw8794.	4.7	100
63	Probing Interactions Between Ultracold Fermions. Science, 2009, 324, 360-363.	6.0	99
64	Dual-microcavity narrow-linewidth Brillouin laser. Optica, 2015, 2, 225.	4.8	96
65	Fundamental amplitude noise limitations to supercontinuum spectra generated in a microstructured fiber. Applied Physics B: Lasers and Optics, 2003, 77, 269-277.	1.1	95
66	Photonic chip for laser stabilization to an atomic vapor with 10^{âˆ’11} instability. Optica, 2018, 5, 443.	4.8	95
67	Observation and Absolute Frequency Measurements of theS01-P03Optical Clock Transition in Neutral Ytterbium. Physical Review Letters, 2005, 95, 083003.	2.9	94
68	Exploiting shot noise correlations in the photodetection of ultrashort optical pulse trains. Nature Photonics, 2013, 7, 290-293.	15.6	94
69	A 12.5 GHz-spaced optical frequency comb spanning >400â€‚nm for near-infrared astronomical spectrograph calibration. Review of Scientific Instruments, 2010, 81, 063105.	0.6	93
70	Dispersion measurements of water with white-light interferometry. Applied Optics, 1998, 37, 5679.	2.1	90
71	Ultralow phase noise microwave generation with an Er:fiber-based optical frequency divider. Optics Letters, 2011, 36, 3260.	1.7	90
72	Ultrabroadband Supercontinuum Generation and Frequency-Comb Stabilization Using On-Chip Waveguides with Both Cubic and Quadratic Nonlinearities. Physical Review Applied, 2017, 8, .	1.5	90

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73	Optical frequency measurements of6sS1âˆ•22â€²6pP1âˆ•22(D1)transitions inCs133and their impact on the fine-structure constant. Physical Review A, 2006, 73, .	1.0	89
74	High-power broadband laser source tunable from 30â€‰Î¼m to 44â€‰Î¼mbased on a femtosecond Yb:fiber oscillator. Optics Letters, 2011, 36, 4020.	1.7	89
75	Photonic microwave generation with high-power photodiodes. Optics Letters, 2013, 38, 1712.	1.7	89
76	Spiral resonators for on-chip laser frequency stabilization. Nature Communications, 2013, 4, 2468.	5.8	89
77	Brillouin-Enhanced Hyperparametric Generation of an Optical Frequency Comb in a Monolithic Highly Nonlinear Fiber Cavity Pumped by a cw Laser. Physical Review Letters, 2009, 102, 193902.	2.9	87
78	Coherent optical clock down-conversion for microwave frequencies with 10 ^{â€’18} instability. Science, 2020, 368, 889-892.	6.0	86
79	Stellar spectroscopy in the near-infrared with a laser frequency comb. Optica, 2019, 6, 233.	4.8	86
80	Amplitude and phase measurements of femtosecond pulse splitting in nonlinear dispersive media. Optics Letters, 1998, 23, 379.	1.7	85
81	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. Proceedings of SPIE, 2014, , .	0.8	83
82	Femtosecond-laser-based optical clockwork with instability â‰63 Ã— 10^â€“16 in 1 s. Optics Letters, 2002, 27, 58.	1.7	82
83	Self-referenced frequency combs using high-efficiency silicon-nitride waveguides. Optics Letters, 2017, 42, 2314.	1.7	80
84	Analysis of noise mechanisms limiting the frequency stability of microwave signals generated with a femtosecond laser. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 1059-1065.	1.9	79
85	Broadband dispersion-engineered microresonator on a chip. Nature Photonics, 2016, 10, 316-320.	15.6	79
86	Parametric seeding of a microresonator optical frequency comb. Optics Express, 2013, 21, 17615.	1.7	77
87	Control and readout of a superconducting qubit using a photonic link. Nature, 2021, 591, 575-579.	13.7	77
88	Frequency evaluation of the doubly forbiddenS01â†’P03transition in bosonicYb174. Physical Review A, 2008, 77, .	1.0	76
89	Laser-machined ultra-high-Q microrod resonators for nonlinear optics. Applied Physics Letters, 2013, 102, .	1.5	74
90	Heterogeneously Integrated GaAs Waveguides on Insulator for Efficient Frequency Conversion. Laser and Photonics Reviews, 2018, 12, 1800149.	4.4	73

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91	Phase steps and resonator detuning measurements in microresonator frequency combs. Nature Communications, 2015, 6, 5668.	5.8	72
92	Study of the excess noise associated with demodulation of ultra-short infrared pulses. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1068-1074.	1.7	71
93	Investigations of nonlinear femtosecond pulse propagation with the inclusion of Raman, shock, and third-order phase effects. Physical Review A, 1998, 58, 3303-3310.	1.0	68
94	Optical frequency measurement across a 104-THz gap with a femtosecond laser frequency comb. Optics Letters, 2000, 25, 186.	1.7	68
95	Broadband optical frequency comb generation with a phase-modulated parametric oscillator. Optics Letters, 1999, 24, 1747.	1.7	67
96	Double Giresâ€“Tournois interferometer negative-dispersion mirrors for use in tunable mode-locked lasers. Optics Letters, 2000, 25, 275.	1.7	67
97	Precision phase control of an ultrawide-bandwidth femtosecond laser:â€ƒa network of ultrastable frequency marks across the visible spectrum. Optics Letters, 2000, 25, 1675.	1.7	67
98	Ultrasensitive spectroscopy, the ultrastable lasers, the ultrafast lasers, and the seriously nonlinear fiber: a new alliance for physics and metrology. IEEE Journal of Quantum Electronics, 2001, 37, 1482-1492.	1.0	67
99	Toward a low-jitter 10 GHz pulsed source with an optical frequency comb generator. Optics Express, 2008, 16, 8498.	1.7	67
100	Single-branch Er:fiber frequency comb for precision optical metrology with 10^â^'18 fractional instability. Optica, 2017, 4, 879.	4.8	67
101	Mode-locked laser pulse trains with subfemtosecond timing jitter synchronized to an optical reference oscillator. Optics Letters, 2003, 28, 663.	1.7	64
102	A six-octave optical frequency comb from a scalable few-cycle erbium fibre laser. Nature Photonics, 2021, 15, 281-286.	15.6	63
103	Noise Floor Reduction of an Er:Fiber Laser-Based Photonic Microwave Generator. IEEE Photonics Journal, 2011, 3, 1004-1012.	1.0	61
104	Frequency comb generation using femtosecond pulses and cross-phase modulation in optical fiber at arbitrary center frequencies. Optics Letters, 2000, 25, 308.	1.7	60
105	Supercontinuum generation in an on-chip silica waveguide. Optics Letters, 2014, 39, 1046.	1.7	60
106	Optical-Frequency Measurements with a Kerr Microcomb and Photonic-Chip Supercontinuum. Physical Review Applied, 2018, 9, .	1.5	60
107	Self-organized nonlinear gratings for ultrafast nanophotonics. Nature Photonics, 2019, 13, 494-499.	15.6	60
108	Design and control of femtosecond lasers for optical clocks and the synthesis of low-noise optical and microwave signals. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 1072-1080.	1.9	59

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109	Coherent ultra-violet to near-infrared generation in silica ridge waveguides. Nature Communications, 2017, 8, 13922.	5.8	59
110	Interlocking Kerr-microresonator frequency combs for microwave to optical synthesis. Optics Letters, 2018, 43, 2933.	1.7	59
111	Optical frequency/wavelength references. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S469-S495.	0.6	54
112	Generation of 20 GHz, sub-40 fs pulses at 960 nm via repetition-rate multiplication. Optics Letters, 2009, 34, 872.	1.7	54
113	Diode-pumped Yb:KYW femtosecond laser frequency comb with stabilized carrier-envelope offset frequency. European Physical Journal D, 2008, 48, 19-26.	0.6	52
114	Demonstration of a near-IR line-referenced electro-optical laser frequency comb for precision radial velocity measurements in astronomy. Nature Communications, 2016, 7, 10436.	5.8	52
115	Attosecond timing in optical-to-electrical conversion. Optica, 2015, 2, 141.	4.8	50
116	Compact, thermal-noise-limited reference cavity for ultra-low-noise microwave generation. Optics Letters, 2017, 42, 1277.	1.7	49
117	Terahertz-Rate Kerr-Microresonator Optical Clockwork. Physical Review X, 2019, 9, .	2.8	49
118	Direct Kerr frequency comb atomic spectroscopy and stabilization. Science Advances, 2020, 6, eaax6230.	4.7	49
119	Femtosecond frequency comb measurement of absolute frequencies and hyperfine coupling constants in cesium vapor. Physical Review A, 2010, 81, .	1.0	48
120	Mechanical Control of a Microrod-Resonator Optical Frequency Comb. Physical Review X, 2013, 3, .	2.8	48
121	High-harmonic generation in periodically poled waveguides. Optica, 2017, 4, 1538.	4.8	48
122	Frequency Uncertainty for Optically Referenced Femtosecond Laser Frequency Combs. IEEE Journal of Quantum Electronics, 2007, 43, 139-146.	1.0	47
123	Optical-to-microwave frequency comparison with fractional uncertainty of 10-15. Applied Physics B: Lasers and Optics, 2007, 89, 167-176.	1.1	46
124	Kilohertz-Resolution Spectroscopy of Cold Atoms with an Optical Frequency Comb. Physical Review Letters, 2006, 97, 163905.	2.9	45
125	A HIGH-RESOLUTION ATLAS OF URANIUM-NEON IN THE H BAND. Astrophysical Journal, Supplement Series, 2012, 199, 2.	3.0	45
126	Frequency-comb spectroscopy on pure quantum states of a single molecular ion. Science, 2020, 367, 1458-1461.	6.0	45

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127	Spectrally resolved optical frequency comb from a self-referenced 5 GHz femtosecond laser. Optics Letters, 2007, 32, 2553.	1.7	44
128	A deep-UV optical frequency comb at 205 nm. Optics Express, 2009, 17, 9183.	1.7	43
129	High-power, hybrid Er:fiber/Tm:fiber frequency comb source in the 2ÂĨ¼m wavelength region. Optics Letters, 2012, 37, 1400.	1.7	43
130	Analysis of shot noise in the detection of ultrashort optical pulse trains. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1775.	0.9	43
131	Optically referenced broadband electronic synthesizer with 15 digits of resolution. Laser and Photonics Reviews, 2016, 10, 780-790.	4.4	43
132	Mid-infrared frequency comb generation via cascaded quadratic nonlinearities in quasi-phase-matched waveguides. Optics Letters, 2018, 43, 1678.	1.7	43
133	420-MHz Cr:forsterite femtosecond ring laser and continuum generation in the 1-2-Ĩ¼m range. Optics Letters, 2003, 28, 1368.	1.7	42
134	Broadband mid-infrared frequency upconversion and spectroscopy with an aperiodically poled LiNbO_3 waveguide. Optics Letters, 2012, 37, 4332.	1.7	42
135	Tuning Kerr-Soliton Frequency Combs to Atomic Resonances. Physical Review Applied, 2019, 11, .	1.5	42
136	Multifunctional integrated photonics in the mid-infrared with suspended AlGaAs on silicon. Optica, 2019, 6, 1246.	4.8	41
137	Stabilized frequency comb with a self-referenced femtosecond Cr:forsterite laser. Optics Letters, 2005, 30, 932.	1.7	40
138	Optical frequency stabilization of a 10 GHz Ti:sapphire frequency comb by saturated absorption spectroscopy in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mtext>r</mml:mtext><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>87</mml:mn></mml:mrow></mml:mmultiscripts><mml:mtext>ubidium</mml:mtext></mml:mrow></mml:ma	1.0	40
139	Physical Review A, 2009, 80, . Sub-femtosecond absolute timing jitter with a 10â€‰GHz hybrid photonic-microwave oscillator. Applied Physics Letters, 2012, 100, .	1.5	40
140	Deuterated silicon nitride photonic devices for broadband optical frequency comb generation. Optics Letters, 2018, 43, 1527.	1.7	40
141	Photonic-Chip Supercontinuum with Tailored Spectra for Counting Optical Frequencies. Physical Review Applied, 2017, 8, .	1.5	40
142	Noise properties of microwave signals synthesized with femtosecond lasers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 736-745.	1.7	39
143	Mid-Infrared Frequency Comb Generation and Spectroscopy with Few-Cycle Pulses and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï‡</mml:mi><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mn>2</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 92 Td [(stretchy="false" >	2.9	39
144	Letters, 2020, 124, 133904. Infrared frequency comb generation and spectroscopy with suspended silicon nanophotonic waveguides. Optica, 2019, 6, 1269.	4.8	39

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145	Absolute frequency measurement of the neutral40Ca optical frequency standard at 657â€‰nm based on microkelvin atoms. Metrologia, 2007, 44, 146-151.	0.6	38
146	Mid-infrared upconversion spectroscopy based on a Yb:fiber femtosecond laser. Applied Physics B: Lasers and Optics, 2012, 107, 31-39.	1.1	37
147	High-Power and High-Linearity Photodetector Modules for Microwave Photonic Applications. Journal of Lightwave Technology, 2014, 32, 3810-3816.	2.7	37
148	Versatile silicon-waveguide supercontinuum for coherent mid-infrared spectroscopy. APL Photonics, 2018, 3, .	3.0	37
149	Open-air, broad-bandwidth trace gas sensing with a mid-infrared optical frequency comb. Applied Physics B: Lasers and Optics, 2015, 119, 327-338.	1.1	36
150	The measurement of optical frequencies. Metrologia, 2005, 42, S105-S124.	0.6	35
151	Optical amplification and pulse interleaving for low-noise photonic microwave generation. Optics Letters, 2014, 39, 1581.	1.7	35
152	Quasi-Phase-Matched Supercontinuum Generation in Photonic Waveguides. Physical Review Letters, 2018, 120, 053903.	2.9	34
153	Broadband phase-coherent optical frequency synthesis with actively linked Ti:sapphire and Cr:forsterite femtosecond lasers. Optics Letters, 2004, 29, 403.	1.7	33
154	Persistent Starspot Signals on M Dwarfs: Multiwavelength Doppler Observations with the Habitable-zone Planet Finder and Keck/HIRES. Astrophysical Journal, 2020, 897, 125.	1.6	32
155	Differential intracavity phase spectroscopy and its application to a three-level system in samarium. Physical Review A, 1998, 58, 2252-2264.	1.0	30
156	Improved stabilization of a 13 Âµm femtosecond optical frequency comb by use of a spectrally tailored continuum from a nonlinear fiber grating. Optics Letters, 2006, 31, 277.	1.7	30
157	Generation of a 660â€“2100 nm laser frequency comb based on an erbium fiber laser. Optics Letters, 2012, 37, 2199.	1.7	30
158	30â€‰â€‰GHz electro-optic frequency comb spanning 300â€‰â€‰THz in the near infrared and visible. Optics Letters, 2019, 44, 2673.	1.7	30
159	Broadband Noise Limit in the Photodetection of Ultralow Jitter Optical Pulses. Physical Review Letters, 2014, 113, 203901.	2.9	28
160	Optical-Clock-Based Time Scale. Physical Review Applied, 2019, 12, .	1.5	28
161	Optical frequency measurements of6sS1âˆ•22â€“6pP3âˆ•22transition in aCs133atomic beam using a femtosecond laser frequency comb. Physical Review A, 2004, 70, .	1.0	27
162	Coherent frequency combs for spectroscopy across the 3â€“5 Âµm region. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	27

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163	Direct comparison of two cold-atom-based optical frequency standards by using a femtosecond-laser comb. Optics Letters, 2001, 26, 102.	1.7	26
164	A microrod-resonator Brillouin laser with 240 Hz absolute linewidth. New Journal of Physics, 2016, 18, 045001.	1.2	25
165	Stellar Activity Manifesting at a One-year Alias Explains Barnard b as a False Positive. Astronomical Journal, 2021, 162, 61.	1.9	25
166	Tunable mid-infrared generation via wide-band four-wave mixing in silicon nitride waveguides. Optics Letters, 2018, 43, 4220.	1.7	24
167	High-performance, compact optical standard. Optics Letters, 2021, 46, 4702.	1.7	24
168	Mid-infrared frequency combs at 10â€‰â€‰GHz. Optics Letters, 2020, 45, 3677.	1.7	24
169	Complete characterization of femtosecond pulses using an all-electronic detector. Optics Communications, 1996, 123, 567-573.	1.0	23
170	Characterizing the nonlinear propagation of femtosecond pulses in bulk media. IEEE Journal of Selected Topics in Quantum Electronics, 1998, 4, 306-316.	1.9	23
171	Offset frequency dynamics and phase noise properties of a self-referenced 10 GHz Ti:sapphire frequency comb. Optics Express, 2011, 19, 18440.	1.7	23
172	State-of-the-art RF signal generation from optical frequency division. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1796-1803.	1.7	23
173	Noise and dynamics of stimulated-Brillouin-scattering microresonator lasers. Physical Review A, 2015, 91, .	1.0	23
174	Broadband ultraviolet-visible frequency combs from cascaded high-harmonic generation in quasi-phase-matched waveguides. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2252.	0.9	23
175	Recent atomic clock comparisons at NIST. European Physical Journal: Special Topics, 2008, 163, 19-35.	1.2	22
176	Dual-comb interferometry via repetition rate switching of a single frequency comb. Optics Letters, 2018, 43, 3614.	1.7	22
177	A Warm Jupiter Transiting an M Dwarf: A TESS Single-transit Event Confirmed with the Habitable-zone Planet Finder. Astronomical Journal, 2020, 160, 147.	1.9	22
178	Frequency measurements and hyperfine structure of the R(85)33â€“0 transition of molecular iodine with a femtosecond optical comb. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 88.	0.9	21
179	1-GHz repetition rate femtosecond OPO with stabilized offset between signal and idler frequency combs. Optics Express, 2008, 16, 5397.	1.7	21
180	Fully self-referenced frequency comb consuming 5 watts of electrical power. OSA Continuum, 2018, 1, 274.	1.8	21

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