Ian Coddington

List of Publications by Year
in descending order

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72	4,333	186265	265206
papers	citations	28 h-index	42 g-index

73	73	73	2352
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monitoring methane emissions from oil and gas operations^{â€¡}. Optics Express, 2022, 30, 24326.	3.4	5
2	Monitoring Methane Emissions from Oil and Gas Operations. , 2022, 1, .		19
3	Fiber Laser Based Dual-Comb Spectroscopy with Dynamically Controlled Spectral Resolution. , 2021, , .		1
4	Precise multispecies agricultural gas flux determined using broadband open-path dual-comb spectroscopy. Science Advances, 2021, 7, .	10.3	32
5	Openâ€Path Dualâ€Comb Spectroscopy for Multispecies Trace Gas Detection in the 4.5â€“5ÂÂµm Spectral Region. Laser and Photonics Reviews, 2021, 15, 2000583.	8.7	19
6	Broadband dual-comb spectroscopy for open-path field measurement of H216O and H218O. , 2021, , .		0
7	Dual-comb photoacoustic spectroscopy. Nature Communications, 2020, 11, 3152.	12.8	41
8	Compact mid-infrared dual-comb spectrometer for outdoor spectroscopy. Optics Express, 2020, 28, 14740.	3.4	31
9	Obtaining more energetic modelocked pulses from a SESAM-based fiber laser. Optics Express, 2020, 28, 20345.	3.4	5
10	Atmospheric monitoring in the 4.5 to 4.9 pm region using open-path dual-comb spectroscopy. , 2020, , .		0
11	Comparison of Livestock Emissions Measurements Using Open-Path Dual-Comb Spectroscopy and Closed-Path Cavity Ring-Down Spectroscopy. , 2020, , .		0
12	Agri-combs: Open-path dual-comb spectroscopy of livestock emissions. , 2020, , .		0
13	Micrometeorological flux measurements using spatially- scanned open-path dual-comb spectroscopy. , 2020, , .		1
14	Single-Blind Quantification of Natural Gas Leaks from 1 km Distance Using Frequency Combs. Environmental Science & Technology, 2019, 53, 2908-2917.	10.0	20
15	Estimating vehicle carbon dioxide emissions from Boulder, Colorado, using horizontal path-integrated column measurements. Atmospheric Chemistry and Physics, 2019, 19, 4177-4192.	4.9	25
16	Dual-comb spectroscopy with tailored spectral broadening in Si₃N₄ nanophotonics. Optics Express, 2019, 27, 11869.	3.4	17
17	Broadband coherent cavity-enhanced dual-comb spectroscopy. Optica, 2019, 6, 28.	9.3	38
18	Mid-infrared dual-comb spectroscopy of volatile organic compounds across long open-air paths. Optica, 2019, 6, 165.	9.3	67

#	Article	IF	Citations
19	Multifunctional integrated photonics in the mid-infrared with suspended AlGaAs on silicon. Optica, 2019, 6, 1246.	9.3	41
20	A Compact Mid-infrared Dual-Comb Spectrometer with 1000 nm of Spectral Coverage. , 2019, , .		0
21	Measurement of acetone emission using a compact midinfrared dual-comb spectrometer. , 2019, , .		0
22	Mid-infrared Dual-comb Spectroscopy of Volatile Organic Compounds Across Long Open-air Paths. , 2019, , .		0
23	High-coherence mid-infrared dual-comb spectroscopy spanning 2.6 to 5.2â€‰Î¼m. Nature Photonics, 2018, 12, 202-208.	31.4	250
24	Novel Uses of Stabilized Optical Frequency Combs: From Regional Methane Leak Source Identification to Diagnostics for Extreme Combustion. , 2018, , .		0
25	Bootstrap inversion technique for atmospheric trace gas source detection and quantification using long open-path laser measurements. Atmospheric Measurement Techniques, 2018, 11, 1565-1582.	3.1	12
26	Regional trace-gas source attribution using a field-deployed dual frequency comb spectrometer. Optica, 2018, 5, 320.	9.3	129
27	Speed-dependent Voigt lineshape parameter database from dual frequency comb measurements at temperatures up to 1305â€¯K. Part II: Argon-broadened H2O absorption, 6801â€“7188Âcmâ¯1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 189-212.	2.3	12
28	Speed-dependent Voigt lineshape parameter database from dual frequency comb measurements up to 1305â€¯K. Part I: Pure H2O absorption, 6801â€“7188Âcmâ¯1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 240-250.	2.3	18
29	Fully self-referenced frequency comb consuming 5 watts of electrical power. OSA Continuum, 2018, 1, 274.	1.8	21
30	Compact Fiber Frequency Combs for Precision Measurement Outside the Metrology Lab. , 2018, , .		0
31	Open Path MIR DCS for Chemical Detection. , 2018, , .		0
32	Open-Path Dual Frequency Comb Spectroscopy Applied to Source Quantification. , 2018, , .		0
33	Broadband, high-resolution investigation of advanced absorption line shapes at high temperature. Physical Review A, 2017, 96, .	2.5	13
34	Ultrabroadband Supercontinuum Generation and Frequency-Comb Stabilization Using On-Chip Waveguides with Both Cubic and Quadratic Nonlinearities. Physical Review Applied, 2017, 8, .	3.8	90
35	Intercomparison of open-path trace gas measurements with two dual-frequency-comb spectrometers. Atmospheric Measurement Techniques, 2017, 10, 3295-3311.	3.1	57
36	Self-referenced frequency combs using high-efficiency silicon-nitride waveguides. Optics Letters, 2017, 42, 2314.	3.3	80

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37	Wake mode sidebands and instability in mode-locked lasers with slow saturable absorbers. Optics Letters, 2017, 42, 2362.	3.3	29
38	Intercomparison of Open-Path Trace Gas Measurements with Two Dual Frequency Comb Spectrometers. , 2017, 10, 3295-3311.		11
39	Dual Frequency Comb Spectroscopy for Trace Gas Monitoring Over Open-Air Paths. , 2017, , .		0
40	Combustion Diagnostics and Chemical Sensing with Frequency Comb Lasers. , 2016, , .		0
41	Accurate frequency referencing for fieldable dual-comb spectroscopy. Optics Express, 2016, 24, 30495.	3.4	77
42	Tight real-time synchronization of a microwave clock to an optical clock across a turbulent air path. Optica, 2016, 3, 441.	9.3	49
43	Synchronization of Distant Optical Clocks at the Femtosecond Level. Physical Review X, 2016, 6, .	8.9	85
44	Synchronization of clocks through 12â€‰km of strongly turbulent air over a city. Applied Physics Letters, 2016, 109, .	3.3	61
45	Enhanced link availability for free space optical time-frequency transfer using adaptive optic terminals. , 2016, , .		0
46	Optical Frequency Comb Generation based on Erbium Fiber Lasers. Nanophotonics, 2016, 5, 196-213.	6.0	81
47	Dual-comb spectroscopy. Optica, 2016, 3, 414.	9.3	1,158
48	Dual Comb Outdoor Spectroscopy for Complex Molecular Response Retrieval. , 2016, , .		0
49	Remote Synchronization of a Microwave Clock to an Optical Clock at the Femtosecond Level. , 2016, , .		0
50	Mid-infrared optical frequency combs based on difference frequency generation for molecular spectroscopy. Optics Express, 2015, 23, 26814.	3.4	131
51	Broadband Phase Spectroscopy over Turbulent Air Paths. Physical Review Letters, 2015, 115, 103901.	7.8	40
52	Femtosecond-Level Synchronization Over Kilometer-Scale Turbulent Air Paths. , 2015, , .		0
53	Free-space time and frequency transfer. , 2015, , .		0
54	Optical two-way time synchronization at the femtosecond level over a 4-km free space link. , 2015, , .		2

#	Article	IF	Citations
55	Dual-Comb Spectroscopy with Difference-Frequency-Generated Mid-Infrared Frequency Combs. , 2015, , .		0
56	Synchronization of optical oscillators over a free-space link at the femtosecond level. , 2015, , .		4
57	Optical Combs for Sensor Applications. , 2014, , .		0
58	Time-domain stabilization of carrier-envelope phase in femtosecond light pulses. Optics Express, 2014, 22, 11788.	3.4	12
59	Speckle phase noise in coherent laser ranging: fundamental precision limitations. Optics Letters, 2014, 39, 4776.	3.3	33
60	Optical two-way time and frequency transfer over free space. Nature Photonics, 2013, 7, 434-438.	31.4	233
61	Comb-calibrated frequency-modulated continuous-wave ladar for absolute distance measurements. Optics Letters, 2013, 38, 2026.	3.3	102
62	Dual comb-based characterization of rapidly tuned lasers. , 2011, , .		1
63	Sub-micron absolute distance measurements in sub-millisecond times with dual free-running femtosecond Er fiber-lasers. Optics Express, 2011, 19, 18501.	3.4	123
64	Characterization of an actively linearized ultrabroadband chirped laser with a fiber-laser optical frequency comb. Optics Letters, 2011, 36, 1152.	3.3	35
65	Precision spectroscopy with frequency combs at 3.4 Î¼m. , 2011, , .		0
66	Performance of a Coherent Dual Frequency Comb Spectrometer. , 2011, , .		0
67	Dual-comb-based characterization of rapidly tuned lasers. , 2011, , .		1
68	Spectroscopy with a coherent dual frequency comb interferometer at 3.4 Î¼m. Proceedings of SPIE, 2010, , .	0.8	1
69	Sensitivity of coherent dual-comb spectroscopy. Optics Express, 2010, 18, 7929.	3.4	188
70	Time-domain spectroscopy of molecular free-induction decay in the infrared. Optics Letters, 2010, 35, 1395.	3.3	76
71	High-performance, vibration-immune, fiber-laser frequency comb. Optics Letters, 2009, 34, 638.	3.3	98
72	Coherent Multiheterodyne Spectroscopy Using Stabilized Optical Frequency Combs. Physical Review Letters, 2008, 100, 013902.	7.8	658