

# Jonas Westberg

## List of Publications by Year in descending order

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28  
papers

524  
citations

687363

13  
h-index

642732

23  
g-index

28  
all docs

28  
docs citations

28  
times ranked

559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational coherent averaging for free-running dual-comb spectroscopy. Optics Express, 2019, 27, 23875.	3.4	69
2	Terahertz hyperspectral imaging with dual chip-scale combs. Optica, 2019, 6, 766.	9.3	65
3	Detection of acetylene impurities in ethylene and polyethylene manufacturing processes using tunable diode laser spectroscopy in the 3-1/4m range. Applied Physics B: Lasers and Optics, 2011, 105, 427-434.	2.2	52
4	Mid-infrared dual-comb spectroscopy with interband cascade lasers. Optics Letters, 2019, 44, 2113.	3.3	49
5	Faraday rotation spectrometer with sub-second response time for detection of nitric oxide using a cw DFB quantum cascade laser at 5.33 1/4m. Applied Physics B: Lasers and Optics, 2011, 103, 451-459.	2.2	42
6	Mid-infrared multiheterodyne spectroscopy with phase-locked quantum cascade lasers. Applied Physics Letters, 2017, 110, .	3.3	39
7	Terahertz Spectroscopy of Gas Mixtures with Dual Quantum Cascade Laser Frequency Combs. ACS Photonics, 2020, 7, 1082-1087.	6.6	33
8	Fast and non-approximate methodology for calculation of wavelength-modulated Voigt lineshape functions suitable for real-time curve fitting. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2049-2057.	2.3	29
9	Quantitative description of Faraday modulation spectrometry in terms of the integrated linestrength and 1st Fourier coefficients of the modulated lineshape function. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2415-2433.	2.3	21
10	Cavity ring-down Faraday rotation spectroscopy for oxygen detection. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	18
11	Dual-comb spectroscopy using plasmon-enhanced-waveguide dispersion-compensated quantum cascade lasers. Optics Letters, 2018, 43, 4522.	3.3	18
12	Molecular dispersion spectroscopy based on Fabry-Perot quantum cascade lasers. Optics Letters, 2017, 42, 243.	3.3	14
13	Wavelength modulated multiheterodyne spectroscopy using Fabry-Perot quantum cascade lasers. Optics Express, 2016, 24, 25298.	3.4	13
14	Optical frequency comb Faraday rotation spectroscopy. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	11
15	A Hybrid THz Imaging System With a 100-Pixel CMOS Imager and a 3.25-3.50 THz Quantum Cascade Laser Frequency Comb. IEEE Solid-State Circuits Letters, 2019, 2, 151-154.	2.0	11
16	Passively Mode-Locked 2.7 and 3.2 1/4m GaSb-Based Cascade Diode Lasers. Journal of Lightwave Technology, 2020, 38, 1895-1899.	4.6	8
17	Analytical expression for the nth Fourier coefficient of a modulated Lorentzian dispersion lineshape function. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1443-1449.	2.3	7
18	Methodology for fast curve fitting to modulated Voigt dispersion lineshape functions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 244-250.	2.3	6

#	ARTICLE	IF	CITATIONS
19	Cavity Attenuated Phase Shift Faraday Rotation Spectroscopy. Analytical Chemistry, 2019, 91, 1696-1700.	6.5	6
20	Lineshape asymmetries in Faraday modulation spectroscopy. Applied Physics B: Lasers and Optics, 2014, 116, 467-476.	2.2	4
21	Field deployment of a mid-IR dual-comb spectrometer based on quantum cascade lasers. , 2020, , .		3
22	Frequency-locked cavity ring-down Faraday rotation spectroscopy. Optics Letters, 2018, 43, 5046.	3.3	3
23	Tuning properties of mid-infrared Fabry-Pérot quantum cascade lasers for multiheterodyne spectroscopy. Photonics Letters of Poland, 2016, 8, 113.	0.4	1
24	Frequency Stabilization of a Quantum Cascade Dual-Comb Spectrometer to a Molecular Transition. , 2020, , .		1
25	Dual-comb spectroscopy using plasmon-enhanced-waveguide dispersion-compensated quantum cascade lasers. Optics Letters, 2018, 43, 4522-4525.	3.3	1
26	Faraday rotation spectroscopy using an optical frequency comb. , 2017, , .		0
27	FPGA implemented real time computational coherent averaging algorithm for dual-comb spectroscopy. , 2020, , .		0
28	Field-deployable mid-infrared quantum cascade laser dualcomb spectrometer with multi-pass cell module. , 2020, , .		0