Matthew J Cich

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/902387/publications.pdf

Version: 2024-02-01

12	260	840776 11	1199594 12
papers	citations	h-index	g-index

12	12	12	348
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multispectrum analysis of the oxygen A-band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 118-138.	2.3	67
2	Frequency-comb referenced spectroscopy of v4- and v5-excited hot bands in the 1.5 Î¼m spectrum of C2H2. Journal of Molecular Spectroscopy, 2015, 316, 64-71.	1.2	29
3	Enantiomerically selective vapochromic sensing. Sensors and Actuators B: Chemical, 2010, 149, 199-204.	7.8	25
4	Frequency comb-referenced measurements of self- and nitrogen-broadening in the Î½1+Î½3 band of acetylene. Journal of Molecular Spectroscopy, 2011, 266, 43-51.	1.2	22
5	Temperature-dependent pressure broadened line shape measurements in the Î½ 1+Î½ 3 band of acetylene using a diode laser referenced to a frequency comb. Applied Physics B: Lasers and Optics, 2012, 109, 373-384.	2.2	21
6	Application of the Hartmannâ€“Tran profile to precise experimental data sets of 12C2H2. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 165, 28-37.	2.3	19
7	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
8	Temperature-Dependent, Nitrogen-Perturbed Line Shape Measurements in the Î½₁ + Î½₃ Band of Acetylene Using a Diode Laser Referenced to a Frequency Comb. Journal of Physical Chemistry A, 2013, 117, 13908-13918.	2.5	14
9	Broadband, high-resolution investigation of advanced absorption line shapes at high temperature. Physical Review A, 2017, 96, .	2.5	13
10	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
11	A 90-102 GHz CMOS based pulsed Fourier transform spectrometer: New approaches for in situ chemical detection and millimeter-wave cavity-based molecular spectroscopy. Review of Scientific Instruments, 2018, 89, 073109.	1.3	11
12	High-resolution, broadly-tunable mid-IR spectroscopy using a continuous wave optical parametric oscillator. Optics Express, 2021, 29, 5295.	3.4	9