

# Gregory B Rieker

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

472  
citations

840776

11  
h-index

713466

21  
g-index

24  
all docs

24  
docs citations

24  
times ranked

377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regional trace-gas source attribution using a field-deployed dual frequency comb spectrometer. <i>Optica</i> , 2018, 5, 320.	9.3	129
2	Intercomparison of open-path trace gas measurements with two dual-frequency-comb spectrometers. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3295-3311.	3.1	57
3	Broadband dual-frequency comb spectroscopy in a rapid compression machine. <i>Optics Express</i> , 2019, 27, 10814.	3.4	54
4	Baseline-free quantitative absorption spectroscopy based on cepstral analysis. <i>Optics Express</i> , 2019, 27, 37920.	3.4	49
5	Mid-infrared dual frequency comb spectroscopy for combustion analysis from 2.8 to 5 $\mu\text{m}$ . <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1627-1635.	3.9	28
6	11- $\frac{1}{4}$ s time-resolved, continuous dual-comb spectroscopy with spectrally filtered mode-locked frequency combs. <i>Applied Physics B: Lasers and Optics</i> , 2021, 127, 1.	2.2	24
7	Speed-dependent Voigt lineshape parameter database from dual frequency comb measurements up to 1305 K. Part I: Pure H <sub>2</sub> O absorption, 6801 $\mu\text{m}$ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 210, 240-250.		18
8	Broadband, high-resolution investigation of advanced absorption line shapes at high temperature. <i>Physical Review A</i> , 2017, 96, .	2.5	13
9	Temperature and concentration measurements in a high-pressure gasifier enabled by cepstral analysis of dual frequency comb spectroscopy. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1561-1569.	3.9	13
10	Speed-dependent Voigt lineshape parameter database from dual frequency comb measurements at temperatures up to 1305 K. Part II: Argon-broadened H <sub>2</sub> O absorption, 6801 $\mu\text{m}$ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 217, 189-212.	2.3	12
11	OH radical measurements in combustion environments using wavelength modulation spectroscopy and dual-frequency comb spectroscopy near 1491 nm. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	2.2	12
12	Resolving nonuniform temperature distributions with single-beam absorption spectroscopy. Part I: Theoretical capabilities and limitations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 260, 107455.	2.3	11
13	Intercomparison of Open-Path Trace Gas Measurements with Two Dual Frequency Comb Spectrometers. , 2017, 10, 3295-3311.		11
14	Parameter estimation for complex thermal-fluid flows using approximate Bayesian computation. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	10
15	Resolving nonuniform temperature distributions with single-beam absorption spectroscopy. Part II: Implementation from broadband spectra. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 272, 107805.	2.3	7
16	High-temperature absorption line shape parameters for CO <sub>2</sub> in the 6800 $\mu\text{m}$ -1 region from dual frequency comb measurements up to 1000 K. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 276, 107912.	2.3	6
17	Demonstration of a uniform, high-pressure, high-temperature gas cell with a dual frequency comb absorption spectrometer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 268, 107640.	2.3	5
18	Efficient Simulations of Propagating Flames and Fire Suppression Optimization Using Adaptive Mesh Refinement. <i>Fluids</i> , 2021, 6, 323.	1.7	4

#	ARTICLE	IF	CITATIONS
19	Centering a beam of light to the axis of rotation of a planar object. Review of Scientific Instruments, 2020, 91, 105101.	1.3	3
20	Characterization of the Buoyant Jet above a Catalytic Combustor Using Wavelength Modulation Spectroscopy. Combustion Science and Technology, 2020, 192, 997-1014.	2.3	2
21	Flow parameter estimation using laser absorption spectroscopy and approximate Bayesian computation. Experiments in Fluids, 2021, 62, 1.	2.4	2
22	A Statistical Evaluation of WRF-LES Trace Gas Dispersion Using Project Prairie Grass Measurements. Monthly Weather Review, 2021, , .	1.4	2
23	2D Mass Flux Profile of an Oblique Shock Train in a Scramjet Isolator via Dual-Frequency Comb Spectroscopy. , 2022, , .		0
24	Validation of Computationally Efficient Simulations of Douglas Fir Pyrolysis and Combustion Using Time-Resolved Frequency Comb Laser Measurements. Frontiers in Forests and Global Change, 2022, 5, .	2.3	0