

Gregory B Rieker

List of Publications by Year in descending order

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papers

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docs citations

24
times ranked

377
citing authors

#	ARTICLE	IF	CITATIONS
1	2D Mass Flux Profile of an Oblique Shock Train in a Scramjet Isolator via Dual-Frequency Comb Spectroscopy. , 2022, , .		0
2	Validation of Computationally Efficient Simulations of Douglas Fir Pyrolysis and Combustion Using Time-Resolved Frequency Comb Laser Measurements. <i>Frontiers in Forests and Global Change</i> , 2022, 5, .	2.3	0
3	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
4	Mid-infrared dual frequency comb spectroscopy for combustion analysis from 2.8 to 5 μm . <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1627-1635.	3.9	28
5	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
6	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
7	Flow parameter estimation using laser absorption spectroscopy and approximate Bayesian computation. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	2
8	A Statistical Evaluation of WRF-LES Trace Gas Dispersion Using Project Prairie Grass Measurements. <i>Monthly Weather Review</i> , 2021, , .	1.4	2
9	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
10	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
11	Efficient Simulations of Propagating Flames and Fire Suppression Optimization Using Adaptive Mesh Refinement. <i>Fluids</i> , 2021, 6, 323.	1.7	4
12	High-temperature absorption line shape parameters for CO ₂ in the 6800 -- 7000 cm^{-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
13	Characterization of the Buoyant Jet above a Catalytic Combustor Using Wavelength Modulation Spectroscopy. <i>Combustion Science and Technology</i> , 2020, 192, 997-1014.	2.3	2
14	Centering a beam of light to the axis of rotation of a planar object. <i>Review of Scientific Instruments</i> , 2020, 91, 105101.	1.3	3
15	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
16	Broadband dual-frequency comb spectroscopy in a rapid compression machine. <i>Optics Express</i> , 2019, 27, 10814.	3.4	54
17	Baseline-free quantitative absorption spectroscopy based on cepstral analysis. <i>Optics Express</i> , 2019, 27, 37920.	3.4	49
18	Regional trace-gas source attribution using a field-deployed dual frequency comb spectrometer. <i>Optica</i> , 2018, 5, 320.	9.3	129

#	ARTICLE	IF	CITATIONS
19	Speed-dependent Voigt lineshape parameter database from dual frequency comb measurements at temperatures up to 1305 K. Part II: Argon-broadened H ₂ O absorption, 6801–7188 cm ⁻¹ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 189-212.	2.3	12
20	Speed-dependent Voigt lineshape parameter database from dual frequency comb measurements up to 1305 K. Part I: Pure H ₂ O absorption, 6801–7188 cm ⁻¹ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 240-250.	2.3	18
21	Parameter estimation for complex thermal-fluid flows using approximate Bayesian computation. Physical Review Fluids, 2018, 3, .	2.5	10
22	Broadband, high-resolution investigation of advanced absorption line shapes at high temperature. Physical Review A, 2017, 96, .	2.5	13
23	Intercomparison of open-path trace gas measurements with two dual-frequency-comb spectrometers. Atmospheric Measurement Techniques, 2017, 10, 3295-3311.	3.1	57
24	Intercomparison of Open-Path Trace Gas Measurements with Two Dual Frequency Comb Spectrometers. , 2017, 10, 3295-3311.		11