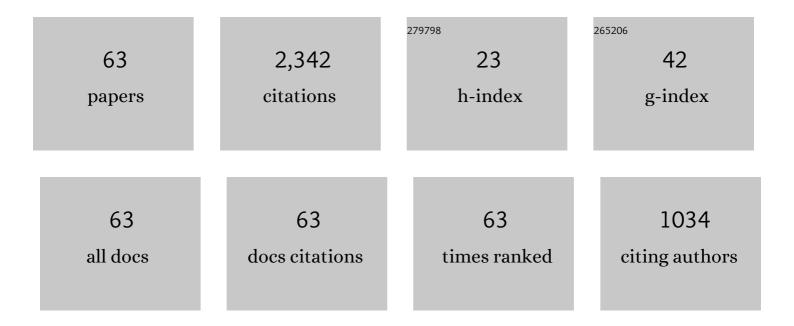
## **Christopher S Goldenstein**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Laser-Absorption-Spectroscopy Measurements of Temperature, Pressure, and CO at 1 MHz in Post-Detonation Fireballs. , 2022, , .		1
2	Laser Absorption Spectroscopy Measurements of Temperature, Pressure, and NO X2Î1/2at 500 kHz in Shock-Heated Air. , 2022, , .		3
3	Wavelength-modulation spectroscopy in the mid-infrared for temperature and HCl measurements in aluminum-lithium composite-propellant flames. Combustion and Flame, 2022, 242, 112180.	5.2	6
4	High-speed multi-spectral imaging of the hypergolic ignition of ammonia borane. Proceedings of the Combustion Institute, 2021, 38, 4433-4440.	3.9	12
5	Characterization of the influence of aluminum particle size on the temperature of composite-propellant flames using CO absorption and AlO emission spectroscopy. Proceedings of the Combustion Institute, 2021, 38, 4365-4372.	3.9	21
6	Spectrally Resolved, 1D, Mid-Infrared Imaging of Temperature, CO2, and HCl in AP-HTPB Propellant Flames. , 2021, , .		0
7	Characterization of Aluminum-Lithium Composite-Propellant Flames via Laser Absorption Spectroscopy. , 2021, , .		3
8	Single-shot ultrafast-laser-absorption measurements of temperature, CO, NO, and H2O in HMX fireballs. , 2021, , .		0
9	High-Bandwidth Laser-Absorption Measurements of Temperature, Pressure, CO, and H2O in the Annulus of a Rotating Detonation Rocket Engine. , 2021, , .		4
10	Spectrally Resolved, 1D, Mid-Infrared Imaging of Temperature, COâ,,, and HCl in Propellant Flames. Applied Optics, 2021, 60, 4524-4534.	1.8	0
11	Broadband, Mid-Infrared Laser-Absorption Measurements of Temperature, CH <sub>4</sub> , and C <sub>3</sub> H <sub>8</sub> in Flames. , 2021, , .		2
12	Ultrafast-laser-absorption spectroscopy in the mid-infrared for single-shot, calibration-free temperature and species measurements in low- and high-pressure combustion gases. Optics Express, 2021, 29, 30140.	3.4	22
13	Ultrafast-laser-absorption-spectroscopy measurements of gas temperature in multi-phase, high-pressure combustion gases. , 2021, , .		1
14	Infrared Laser-Induced Fluorescence with a Continuous-Wave Optical Parametric Oscillator. , 2021, , .		1
15	Single-shot, mid-infrared ultrafast-laser-absorption-spectroscopy measurements of temperature, CO, NO and H2O in HMX combustion gases. Applied Physics B: Lasers and Optics, 2021, 127, 1.	2.2	9
16	High-bandwidth absorption-spectroscopy measurements of temperature, pressure, CO, and H\$\$_2\$\$O in the annulus of a rotating detonation rocket engine. Applied Physics B: Lasers and Optics, 2021, 127, 1.	2.2	24
17	Near-GHz scanned-wavelength-modulation spectroscopy for MHz thermometry and H\$\$_2\$\$O measurements in aluminized fireballs of energetic materials. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	19
18	Wavelength-Modulation-Spectroscopy Diagnostics for Characterizing Metallized and Halogenated		2

Fireballs of Energetic Materials. , 2020, , .

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19	Ultrafast Laser Absorption Spectroscopy in the Mid-Infrared for Measuring Temperature and Species in Combustion Gases. , 2020, , .		5
20	Scanned-Wavelength-Modulation Spectroscopy in the Mid-Infrared for Measurements of Temperature and CO in Aluminized Composite Propellant Flames. , 2020, , .		2
21	Simulation technique enabling calibration-free frequency-modulation spectroscopy measurements of gas conditions and lineshapes with modulation frequencies spanning kHz to GHz. Applied Optics, 2020, 59, 1491.	1.8	6
22	Cepstral analysis for baseline-insensitive absorption spectroscopy using light sources with pronounced intensity variations. Applied Optics, 2020, 59, 7865.	1.8	20
23	Ultrafast laser-absorption spectroscopy for single-shot, mid-infrared measurements of temperature, CO, and CH <sub>4</sub> in flames. Optics Letters, 2020, 45, 583.	3.3	30
24	Single-ended mid-infrared laser-absorption sensor for time-resolved measurements of water concentration and temperature within the annulus of a rotating detonation engine. Proceedings of the Combustion Institute, 2019, 37, 1435-1443.	3.9	44
25	Design and application of a high-pressure combustion chamber for studying propellant flames with laser diagnostics. Review of Scientific Instruments, 2019, 90, 045111.	1.3	20
26	High-pressure and high-temperature gas cell for absorption spectroscopy studies at wavelengths up to 8µm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 227, 145-151.	2.3	25
27	Wavelength-Modulation Spectroscopy for MHz Thermometry and H2O Sensing in Combustion Gases of Energetic Materials. , 2019, , .		8
28	2D mid-infrared laser-absorption imaging for tomographic reconstruction of temperature and carbon monoxide in laminar flames. Optics Express, 2019, 27, 14184.	3.4	34
29	Compact, fiber-coupled, single-ended laser-absorption-spectroscopy sensors for high-temperature environments. Applied Optics, 2018, 57, 7117.	1.8	10
30	Tomographic laser absorption imaging of combustion species and temperature in the mid-wave infrared. Optics Express, 2018, 26, 20944.	3.4	56
31	Infrared laser-absorption sensing for combustion gases. Progress in Energy and Combustion Science, 2017, 60, 132-176.	31.2	471
32	SpectraPlot.com: Integrated spectroscopic modeling of atomic and molecular gases. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 200, 249-257.	2.3	101
33	Design and implementation of a laser-based absorption spectroscopy sensor for <i>in situ</i> monitoring of biomass gasification. Measurement Science and Technology, 2017, 28, 125501.	2.6	4
34	Wavelength-modulated planar laser-induced fluorescence for imaging gases. Optics Letters, 2017, 42, 5278.	3.3	6
35	Single-Ended Infrared-Laser-Absorption Sensing of Gas Properties. , 2017, , .		0
36	Kinetics of Excited Oxygen Formation in Shock-Heated O <sub>2</sub> –Ar Mixtures. Journal of Physical Chemistry A, 2016, 120, 8234-8243.	2.5	16

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37	Fiber-coupled diode-laser sensors for calibration-free stand-off measurements of gas temperature, pressure, and composition. Applied Optics, 2016, 55, 479.	2.1	34
38	Diagnostic Techniques for Gaseous Flows. , 2016, , 201-215.		1
39	Spectroscopy and Optical Diagnostics for Gases. , 2016, , .		196
40	Single-ended mid-infrared laser-absorption sensor for simultaneous in situ measurements of H_2O, CO_2, CO, and temperature in combustion flows. Applied Optics, 2016, 55, 9347.	2.1	37
41	Shock-tube measurements of excited oxygen atoms using cavity-enhanced absorption spectroscopy. Applied Optics, 2015, 54, 8766.	2.1	32
42	Infrared planar laser-induced fluorescence with a CW quantum-cascade laser for spatially resolved CO2 and gas properties. Applied Physics B: Lasers and Optics, 2015, 120, 185-199.	2.2	12
43	Infrared laser absorption sensors for multiple performance parameters in a detonation combustor. Proceedings of the Combustion Institute, 2015, 35, 3739-3747.	3.9	43
44	Constrained reaction volume shock tube study of n -heptane oxidation: Ignition delay times and time-histories of multiple species and temperature. Proceedings of the Combustion Institute, 2015, 35, 231-239.	3.9	60
45	Diode-laser measurements of linestrength and temperature-dependent lineshape parameters for H2O transitions near 1.41¼m using Voigt, Rautian, Galatry, and speed-dependent Voigt profiles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 152, 127-139.	2.3	67
46	Hypersonic Scramjet Testing via Diode Laser Absorption in a Reflected Shock Tunnel. Journal of Propulsion and Power, 2014, 30, 1586-1594.	2.2	14
47	Spatially Resolved Water Measurements in a Scramjet Combustor Using Diode Laser Absorption. Journal of Propulsion and Power, 2014, 30, 1551-1558.	2.2	29
48	A scanned-wavelength-modulation absorption-spectroscopy sensor for temperature and H <sub>2</sub> O in low-pressure flames. Measurement Science and Technology, 2014, 25, 115501.	2.6	24
49	High-bandwidth scanned-wavelength-modulation spectroscopy sensors for temperature and H <sub>2</sub> 0 in a rotating detonation engine. Measurement Science and Technology, 2014, 25, 105104.	2.6	66
50	Fitting of calibration-free scanned-wavelength-modulation spectroscopy spectra for determination of gas properties and absorption lineshapes. Applied Optics, 2014, 53, 356.	1.8	189
51	Diode Laser Absorption Sensor for Combustion Progress in a Model Scramjet. Journal of Propulsion and Power, 2014, 30, 550-557.	2.2	19
52	Spatially-resolved TDLAS measurements of temperature, H2O column density, and velocity in a direct-connect scramjet combustor. , 2014, , .		6
53	Multispecies Midinfrared Absorption Measurements in a Hydrocarbon-Fueled Scramjet Combustor. Journal of Propulsion and Power, 2014, 30, 1595-1604.	2.2	35
54	Wavelength-modulation spectroscopy near 2.5Âμm for H2O and temperature in high-pressure and -temperature gases. Applied Physics B: Lasers and Optics, 2014, 116, 705-716.	2.2	40

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55	Scanned-wavelength-modulation spectroscopy near 2.5Âμm for H2O and temperature in a hydrocarbon-fueled scramjet combustor. Applied Physics B: Lasers and Optics, 2014, 116, 717-727.	2.2	50
56	Simultaneous sensing of temperature, CO, and CO2 in a scramjet combustor using quantum cascade laser absorption spectroscopy. Applied Physics B: Lasers and Optics, 2014, 117, 689-698.	2.2	93
57	Analysis of calibration-free wavelength-scanned wavelength modulation spectroscopy for practical gas sensing using tunable diode lasers. Measurement Science and Technology, 2013, 24, 125203.	2.6	160
58	Diode laser measurements of linestrength and temperature-dependent lineshape parameters of H2O-, CO2-, and N2-perturbed H2O transitions near 2474 and 2482nm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 100-111.	2.3	61
59	Two-color absorption spectroscopy strategy for measuring the column density and path average temperature of the absorbing species in nonuniform gases. Applied Optics, 2013, 52, 7950.	1.8	55
60	TDL Absorption Sensor for Temperature Measurements in High-Pressure and High-Temperature Gases. , 2012, , .		7
61	TDL Absorption Sensor for In Situ Determination of Combustion Progress in Scramjet Ground Testing. , 2012, , .		3
62	Tunable Diode Laser Absorption Sensor for Measurements of Temperature and Water Concentration in Supersonic Flows. , 2011, , .		8
63	Measurement of Water Vapor Levels for Investigating Vitiation Effects on Scramjet Performance. Journal of Propulsion and Power, 2011, 27, 1315-1317.	2.2	13