

# Garrett C Mathews

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5212530/publications.pdf>

Version: 2024-02-01

9  
papers

110  
citations

1684188  
5  
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1720034  
7  
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9  
all docs

9  
docs citations

9  
times ranked

49  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-bandwidth absorption-spectroscopy measurements of temperature, pressure, CO, and H <sub>2</sub> O in the annulus of a rotating detonation rocket engine. Applied Physics B: Lasers and Optics, 2021, 127, 1.	2.2	24
2	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
3	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
4	Near-GHz scanned-wavelength-modulation spectroscopy for MHz thermometry and H <sub>2</sub> O measurements in aluminized fireballs of energetic materials. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	19
5	Single-shot, mid-infrared ultrafast-laser-absorption-spectroscopy measurements of temperature, CO, NO and H <sub>2</sub> O in HMX combustion gases. Applied Physics B: Lasers and Optics, 2021, 127, 1.	2.2	9
6	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
7	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
8	High-Bandwidth Laser-Absorption Measurements of Temperature, Pressure, CO, and H <sub>2</sub> O in the Annulus of a Rotating Detonation Rocket Engine. , 2021, , .		4
9	Laser-Absorption-Spectroscopy Measurements of Temperature, Pressure, and CO at 1 MHz in Post-Detonation Fireballs. , 2022, , .		1