

PUBLICATION LIST OF CHRISTOPHER S. GOLDENSTEIN

TEXTBOOKS

1. R. K. Hanson, R. M. Spearrin, **C. S. Goldenstein**, *Spectroscopy and Optical Diagnostics for Gases*, Springer International Publishing AG Switzerland (2016)

BOOK CHAPTERS

1. R. M. Spearrin and **C. S. Goldenstein**, Chapter 15 - High-pressure spectroscopy and sensors for combustion, In K. Brezinsky (Ed.): *Combustion Chemistry and the Carbon Neutral Future*, Elsevier (2023), pp. 503-520, doi.org/10.1016/B978-0-323-99213-8.00005-9

JOURNAL AND CONFERENCE PUBLICATIONS

118. G. C. Mathews, J. Rustad, and **C. S. Goldenstein**, Dual-band scanned-wavelength infrared laser-induced fluorescence of CO with time-domain modeling for 1 kHz thermometry, *Under Review*.
117. R. L. Travis, C. J. Schwartz, C. T. V. Nunes, R. S. Ramirez, J. L. Vera, D. R. Guildenbecher, S. F. Son, and **C. S. Goldenstein**, Characterization of post-detonation fireballs of aluminized PETN via mid-IR laser absorption spectroscopy and UV-Vis emission spectroscopy, *Proceedings of the Combustion Institute*, *In Press* (2026)
116. R. Poddar, N. Kempema, D. Bilby, A. Getsoian, and **C. S. Goldenstein**, In-situ laser absorption spectroscopy gas measurements in Li-ion pouch cells with lithium- and manganese-rich (LMR) layered oxide cathodes, 249th Electrochemical Society Meeting, Seattle, May (2026), [10.1149/MA2026-013250mtgabs](https://doi.org/10.1149/MA2026-013250mtgabs)
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112. D. J. Londrico, J. J. Gilvey, M. Y. Chern, R. D. Rockwell, C. Dedic, C. Goyne, and **C. S. Goldenstein**, Laser Absorption Spectroscopy Measurements of Air Mass Flow Rate in a Model Scramjet Isolator via Ambient CO₂, *AIAA SciTech 2026 Forum*, Orlando, FL
111. R. L. Travis, C. J. Schwartz, C. Nunes, R. S. Ramirez, J. L. Vera, D. R. Guildenbecher, S. F. Son, and **C. S. Goldenstein**, Simultaneous Emission and Laser Absorption Spectroscopy Measurements in Post-Detonation Fireballs of Aluminized PETN Hemispheres, *AIAA SciTech 2026 Forum*, Orlando, FL
110. R. Poddar, J. Stiborek, N. Kempema, D. Bilby, and **C. S. Goldenstein**, Characterizing the Effects of Li-Ion Battery Electrolyte Additives on Formation Cycle Gas Generation Using an in-Situ Laser Absorption Spectroscopy Sensor, 248th Electrochemical Society Meeting, Chicago, IL, October (2025) [10.1149/MA2025-024747mtgabs](https://doi.org/10.1149/MA2025-024747mtgabs)
109. A. J. McDonald, J. J. Gilvey, M. J. McQuaid, C.-C. Chen, J. D. Veals, C. P. Stone, S. F. Son, and **C. S. Goldenstein**, Laser absorption spectroscopy measurements of temperature and CO profiles in opposed-flow diffusion flames of HTPB, *Combustion and Flame*, 279 (2025) pp. 114325 doi.org/10.1016/j.combustflame.2025.114325

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