

Fabio A Bendana

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

238
citations

1040056

9
h-index

1199594

12
g-index

21
all docs

21
docs citations

21
times ranked

104
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Multi-isotopologue laser absorption spectroscopy of carbon monoxide for high-temperature chemical kinetic studies of fuel mixtures. <i>Combustion and Flame</i> , 2019, 207, 379-390. | 5.2 | 33 |
| 2 | Wavelength modulation spectroscopy near 5 μm for carbon monoxide sensing in a high-pressure kerosene-fueled liquid rocket combustor. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1. | 2.2 | 30 |
| 3 | Line mixing and broadening in the $\nu(1\hat{+}3)$ first overtone bandhead of carbon monoxide at high temperatures and high pressures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 239, 106636. | 2.3 | 30 |
| 4 | Line mixing and broadening of carbon dioxide by argon in the ν_3 bandhead near 4.2 μm at high temperatures and high pressures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107135. | 2.3 | 22 |
| 5 | Nonequilibrium Vibrational, Rotational, and Translational Thermometry via Megahertz Laser Absorption of CO. <i>Journal of Thermophysics and Heat Transfer</i> , 2022, 36, 266-275. | 1.6 | 18 |
| 6 | Cross-band infrared laser absorption of carbon monoxide for thermometry and species sensing in high-pressure rocket flows. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1. | 2.2 | 16 |
| 7 | In-situ thermochemical analysis of hybrid rocket fuel oxidation via laser absorption tomography of CO , CO_2 , and H_2O . <i>Experiments in Fluids</i> , 2020, 61, 1. | 2.4 | 15 |
| 8 | Design-build-launch: a hybrid project-based laboratory course for aerospace engineering education. <i>Acta Astronautica</i> , 2019, 157, 29-39. | 3.2 | 13 |
| 9 | Exploiting line-mixing effects for laser absorption spectroscopy at extreme combustion pressures. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1685-1693. | 3.9 | 11 |
| 10 | MHz mid-infrared laser absorption sensor for carbon monoxide and temperature behind detonation waves. , 2020, , . | | 8 |
| 11 | Infrared laser absorption thermometry and CO sensing in high-pressure rocket combustion flows from 25 to 105 bar. , 2019, , . | | 7 |
| 12 | Competitive oxidation of methane and C_2 hydrocarbons discerned by isotopic labeling and laser absorption spectroscopy of CO isotopologues in shock-heated mixtures. <i>Combustion and Flame</i> , 2021, 224, 54-65. | 5.2 | 7 |
| 13 | Injector Effects on Hybrid Polymethylmethacrylate Combustion Assessed by Thermochemical Tomography. <i>Journal of Propulsion and Power</i> , 2021, 37, 928-943. | 2.2 | 7 |
| 14 | Thermochemical structure of a hybrid rocket reaction layer based on laser absorption tomography. , 2019, , . | | 5 |
| 15 | Assessing Oxidizer Injector Design via Thermochemical Imaging of PMMA Combustion in a Hybrid Rocket Motor Geometry. , 2020, , . | | 5 |
| 16 | Localized characteristic velocity (c^*) for rocket combustion analysis based on gas temperature and composition via laser absorption spectroscopy. <i>Measurement Science and Technology</i> , 2021, 32, 125203. | 2.6 | 5 |
| 17 | Laser Absorption Spectroscopy of Carbon Monoxide near 4.97 μm for Temperature and Species Measurements in Hydrocarbon-Fueled Rockets. , 2018, , . | | 4 |
| 18 | Laser absorption of carbon dioxide at the vibrational bandhead near 4.2 μm in high-pressure rocket combustion environments. , 2020, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|----|-----------|
| 19 | Swirl injection in hybrid polymethylmethacrylate combustion assessed by thermochemical imaging. , 2021, , . | | 1 |
| 20 | Simultaneous vibrational, rotational, and translational thermometry based on laser absorption of CO in shock-induced non-equilibrium. , 2021, , . | | 0 |
| 21 | Spatially-resolved characteristic velocity (c^*) measurements for hybrid rocket combustion analysis using laser spectroscopy. , 2022, , . | | 0 |