

# Fabio A Bendana

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5020986/publications.pdf>

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	Spatially-resolved characteristic velocity ( $c^*$ ) measurements for hybrid rocket combustion analysis using laser spectroscopy. , 2022, , .		0
2	Nonequilibrium Vibrational, Rotational, and Translational Thermometry via Megahertz Laser Absorption of CO. Journal of Thermophysics and Heat Transfer, 2022, 36, 266-275.	1.6	18
3	Exploiting line-mixing effects for laser absorption spectroscopy at extreme combustion pressures. Proceedings of the Combustion Institute, 2021, 38, 1685-1693.	3.9	11
4	Competitive oxidation of methane and $C_2$ hydrocarbons discerned by isotopic labeling and laser absorption spectroscopy of CO isotopologues in shock-heated mixtures. Combustion and Flame, 2021, 224, 54-65.	5.2	7
5	Simultaneous vibrational, rotational, and translational thermometry based on laser absorption of CO in shock-induced non-equilibrium. , 2021, , .		0
6	Swirl injection in hybrid polymethylmethacrylate combustion assessed by thermochemical imaging. , 2021, , .		1
7	Localized characteristic velocity ( $c^*$ ) for rocket combustion analysis based on gas temperature and composition via laser absorption spectroscopy. Measurement Science and Technology, 2021, 32, 125203.	2.6	5
8	Injector Effects on Hybrid Polymethylmethacrylate Combustion Assessed by Thermochemical Tomography. Journal of Propulsion and Power, 2021, 37, 928-943.	2.2	7
9	MHz mid-infrared laser absorption sensor for carbon monoxide and temperature behind detonation waves. , 2020, , .		8
10	In-situ thermochemical analysis of hybrid rocket fuel oxidation via laser absorption tomography of $CO$ , $CO_2$ , and $H_2O$ . Experiments in Fluids, 2020, 61, 1.	2.4	15
11	Assessing Oxidizer Injector Design via Thermochemical Imaging of PMMA Combustion in a Hybrid Rocket Motor Geometry. , 2020, , .		5
12	Line mixing and broadening of carbon dioxide by argon in the $\nu_3$ bandhead near $4.2\ \mu m$ at high temperatures and high pressures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107135.	2.3	22
13	Laser absorption of carbon dioxide at the vibrational bandhead near $4.2\ \mu m$ in high-pressure rocket combustion environments. , 2020, , .		1
14	Multi-isotopologue laser absorption spectroscopy of carbon monoxide for high-temperature chemical kinetic studies of fuel mixtures. Combustion and Flame, 2019, 207, 379-390.	5.2	33
15	Cross-band infrared laser absorption of carbon monoxide for thermometry and species sensing in high-pressure rocket flows. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	16
16	Line mixing and broadening in the $\nu(1\hat{+}3)$ first overtone bandhead of carbon monoxide at high temperatures and high pressures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 239, 106636.	2.3	30
17	Thermochemical structure of a hybrid rocket reaction layer based on laser absorption tomography. , 2019, , .		5
18	Design-build-launch: a hybrid project-based laboratory course for aerospace engineering education. Acta Astronautica, 2019, 157, 29-39.	3.2	13

#	ARTICLE	IF	CITATIONS
19	Infrared laser absorption thermometry and CO sensing in high-pressure rocket combustion flows from 25 to 105 bar. , 2019, , .		7
20	Wavelength modulation spectroscopy near 5 $\mu\text{m}$ for carbon monoxide sensing in a high-pressure kerosene-fueled liquid rocket combustor. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	30
21	Laser Absorption Spectroscopy of Carbon Monoxide near 4.97 $\mu\text{m}$ for Temperature and Species Measurements in Hydrocarbon-Fueled Rockets. , 2018, , .		4