

Daniel I Pineda

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	MHz laser absorption spectroscopy via diplexed RF modulation for pressure, temperature, and species in rotating detonation rocket flows. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	2.2	59
2	Tomographic laser absorption imaging of combustion species and temperature in the mid-wave infrared. <i>Optics Express</i> , 2018, 26, 20944.	3.4	56
3	Mid-infrared laser absorption tomography for quantitative 2D thermochemistry measurements in premixed jet flames. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	51
4	Deep neural network inversion for 3D laser absorption imaging of methane in reacting flows. <i>Optics Letters</i> , 2020, 45, 2447.	3.3	39
5	Application of Corona Discharge Ignition in a Boosted Direct-Injection Single Cylinder Gasoline Engine: Effects on Combustion Phasing, Fuel Consumption, and Emissions. <i>SAE International Journal of Engines</i> , 0, 9, 1970-1988.	0.4	35
6	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
7	Conversion of jet fuel and butanol to syngas by filtration combustion. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 879-889.	7.1	30
8	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
9	High-pressure and high-temperature gas cell for absorption spectroscopy studies at wavelengths up to $8\hat{\text{A}}\mu\text{m}$. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 227, 145-151.	2.3	25
10	Volumetric laser absorption imaging of temperature, CO and CO ₂ in laminar flames using 3D masked Tikhonov regularization. <i>Combustion and Flame</i> , 2021, 224, 239-247.	5.2	25
11	Line mixing and broadening of carbon dioxide by argon in the ν_3 bandhead near $4.2\hat{\text{A}}\mu\text{m}$ at high temperatures and high pressures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107135.	2.3	22
12	Methane-oxygen rotating detonation exhaust thermodynamics with variable mixing, equivalence ratio, and mass flux. <i>Aerospace Science and Technology</i> , 2021, 113, 106683.	4.8	22
13	Syngas production from burner-stabilized methane/air flames: The effect of preheated reactants. <i>Combustion and Flame</i> , 2013, 160, 557-564.	5.2	16
14	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
15	Carbon oxidation in turbulent premixed jet flames: A comparative experimental and numerical study of ethylene, n-heptane, and toluene. <i>Combustion and Flame</i> , 2020, 221, 371-383.	5.2	14
16	Physics-trained neural network for sparse-view volumetric laser absorption imaging of species and temperature in reacting flows. <i>Optics Express</i> , 2021, 29, 22553.	3.4	13
17	Time-resolved laser absorption imaging of ethane at $2\hat{\text{a}}\hat{\text{e}}\hat{\text{a}}\text{kHz}$ in unsteady partially premixed flames. <i>Applied Optics</i> , 2019, 58, 5656.	1.8	13
18	Temperature-dependent line mixing in the R-branch of the ν_3 band of methane. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 255, 107271.	2.3	11

#	ARTICLE	IF	CITATIONS
19	Interband cascade laser absorption of hydrogen chloride for high-temperature thermochemical analysis of fire-resistant polymer reactivity. <i>Applied Optics</i> , 2020, 59, 2141.	1.8	10
20	MHz mid-infrared laser absorption sensor for carbon monoxide and temperature behind detonation waves. , 2020, , .		8
21	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
22	Modeling hydrogen inhibition in gasification surface reactions. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6059-6071.	7.1	6
23	Nanosecond Pulsed Discharge Ignition in a Lean Methane-Air Mixture. , 2015, , .		6
24	Turbulence-induced bias in time-averaged laser absorption tomography of correlated concentration and temperature fields with a first-order correction. <i>Combustion and Flame</i> , 2022, 242, 112210.	5.2	6
25	Hypergolic Continuous Detonation with Space-Storable Propellants and Additively Manufactured Injector Design. <i>Journal of Spacecraft and Rockets</i> , 2022, 59, 1332-1341.	1.9	5
26	The Role of Hydrodynamic Enhancement on Ignition of Lean Methane-Air Mixtures by Pulsed Nanosecond Discharges for Automotive Engine Applications. <i>Combustion Science and Technology</i> , 2017, 189, 2023-2037.	2.3	4
27	Rotating detonation of hypergolic space-storable rocket propellants with additively-manufactured injector design. , 2021, , .		3
28	Low-cost student-manufacturable liquid oxygen-ethanol sounding rocket. , 2019, , .		2
29	Progressive project-based learning program for collegiate rocket engineering. , 2020, , .		2
30	Design and construction of a modular thrust stand for propulsion research and education at UTSA. , 2021, , .		0
31	Mid-infrared laser absorption tomography for quantitative temperature, CO, and CO ₂ in turbulent flames. , 2018, , .		0
32	3D laser absorption imaging of combustion gases assisted by deep learning. , 2020, , .		0
33	Learning network for laser absorption imaging in flames using mid-fidelity simulations. , 2021, , .		0
34	Kinetics of methyl methacrylate (MMA) combustion assessed by time-resolved speciation behind shock waves. , 2022, , .		0