

Ramanarayanan Balachandran

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,669
citations

430874

18
h-index

501196

28
g-index

33
all docs

33
docs citations

33
times ranked

914
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of the nonlinear response of turbulent premixed flames to imposed inlet velocity oscillations. <i>Combustion and Flame</i> , 2005, 143, 37-55.	5.2	467
2	Spatially resolved heat release rate measurements in turbulent premixed flames. <i>Combustion and Flame</i> , 2006, 144, 1-16.	5.2	258
3	Spark ignition of turbulent nonpremixed bluff-body flames. <i>Combustion and Flame</i> , 2007, 151, 366-385.	5.2	153
4	Investigation of the nonlinear response of turbulent premixed flames to imposed inlet velocity oscillations. <i>Combustion and Flame</i> , 2006, 146, 419-436.	5.2	110
5	Measurements of ignition probability in turbulent non-premixed counterflow flames. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 1507-1513.	3.9	86
6	Effect of hydrogen-diesel fuel co-combustion on exhaust emissions with verification using an in-cylinder gas sampling technique. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 15088-15102.	7.1	73
7	Thermoacoustic Instability Considerations for High Hydrogen Combustion in Lean Premixed Gas Turbine Combustors: A Review. <i>Hydrogen</i> , 2021, 2, 33-57.	3.4	61
8	Heat release rate correlation and combustion noise in premixed flames. <i>Journal of Fluid Mechanics</i> , 2011, 681, 80-115.	3.4	58
9	Heat release rate estimation in laminar premixed flames using laser-induced fluorescence of CH ₂ O and H-atom. <i>Combustion and Flame</i> , 2016, 165, 373-383.	5.2	46
10	Influence of combusting methane-hydrogen mixtures on compression-ignition engine exhaust emissions and in-cylinder gas composition. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 2381-2396.	7.1	45
11	Evolution of flame-kernel in laser-induced spark ignited mixtures: A parametric study. <i>Combustion and Flame</i> , 2016, 164, 303-318.	5.2	40
12	Flame front tracking in turbulent lean premixed flames using stereo PIV and time-sequenced planar LIF of OH. <i>Applied Physics B: Lasers and Optics</i> , 2009, 96, 843-862.	2.2	38
13	Non-linear Response of Turbulent Premixed Flames to Imposed Inlet Velocity Oscillations of Two Frequencies. <i>Flow, Turbulence and Combustion</i> , 2008, 80, 455.	2.6	35
14	Comparison of electrical and laser spark emission spectroscopy for fuel concentration measurements. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 338-345.	2.7	27
15	Investigating the effect of local addition of hydrogen to acoustically excited ethylene and methane flames. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11168-11184.	7.1	24
16	Study of polycyclic aromatic hydrocarbons (PAHs) in hydrogen-enriched methane diffusion flames. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7642-7655.	7.1	24
17	On the correlation of heat release rate in turbulent premixed flames. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 1533-1541.	3.9	22
18	Conversion of oxygenated and hydrocarbon molecules to particulate matter using stable isotopes as tracers. <i>Combustion and Flame</i> , 2014, 161, 2966-2974.	5.2	21

#	ARTICLE	IF	CITATIONS
19	Experiments and Large-Eddy Simulations of acoustically forced bluff-body flows. International Journal of Heat and Fluid Flow, 2010, 31, 754-766.	2.4	18
20	Characterization of an Acoustically Self-Excited Combustor for Spray Evaporation. Journal of Propulsion and Power, 2008, 24, 1382-1389.	2.2	16
21	Experimental investigation of dynamics of premixed acetylene-air flames in a micro-combustor. Experimental Thermal and Fluid Science, 2010, 34, 330-337.	2.7	10
22	Experimental investigation of the flow in a micro-channelled combustor and its relation to flame behaviour. Experimental Thermal and Fluid Science, 2020, 116, 110105.	2.7	9
23	Impact of local secondary gas addition on the dynamics of self-excited ethylene flames. International Journal of Thermofluids, 2021, 9, 100057.	7.8	8
24	Flame dynamics in a micro-channelled combustor. AIP Conference Proceedings, 2015, , .	0.4	4
25	<i>In situ</i> observation of the evolution of polyaromatic tar precursors in packed-bed biomass pyrolysis. Reaction Chemistry and Engineering, 2021, 6, 1538-1547.	3.7	4
26	Removal and dispersal of biofluid films by powered medical devices: Modeling infectious agent spreading in dentistry. IScience, 2021, 24, 103344.	4.1	4
27	Spatiotemporal droplet dispersion measurements demonstrate face masks reduce risks from singing. Scientific Reports, 2021, 11, 24183.	3.3	4
28	PAH formation characteristics in hydrogen-enriched non-premixed hydrocarbon flames. Fuel, 2022, 323, 124407.	6.4	2
29	Prediction of Sound Emission from Open Turbulent Premixed Flames. , 2010, , .		1
30	Spark Ignition of Turbulent Premixed and Non-premixed Opposed Jet Flames. , 2006, , .		0
31	An Investigation Into Transient Diesel Spray Development Using High Speed Imaging In A Novel Optical Pressure Chamber. , 0, , .		0