

# Venkat Athmanathan

## List of Publications by Year in descending order

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Version: 2024-02-01

13  
papers

176  
citations

1478505

6  
h-index

1588992

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13  
docs citations

13  
times ranked

69  
citing authors

#	ARTICLE	IF	CITATIONS
1	Megahertz-rate OH planar laser-induced fluorescence imaging in a rotating detonation combustor. Optics Letters, 2020, 45, 5776.	3.3	37
2	On the effects of reactant stratification and wall curvature in non-premixed rotating detonation combustors. Combustion and Flame, 2022, 240, 112013.	5.2	33
3	Experimental study of internal flow structures in cylindrical rotating detonation engines. Proceedings of the Combustion Institute, 2021, 38, 3759-3768.	3.9	32
4	Femtosecond/picosecond rotational coherent anti-Stokes Raman scattering thermometry in the exhaust of a rotating detonation combustor. Combustion and Flame, 2021, 231, 111504.	5.2	21
5	Turbine-integrated High-pressure Optical RDE (THOR) for injection and detonation dynamics assessment. , 2019, , .		17
6	Dual-output fs/ps burst-mode laser for megahertz-rate rotational coherent anti-Stokes Raman scattering. Optics Letters, 2020, 45, 5933.	3.3	12
7	Quantitative femtosecond, two-photon laser-induced fluorescence of atomic oxygen in high-pressure flames. Applied Optics, 2019, 58, 1984.	1.8	10
8	Pressure-scaling characteristics of femtosecond two-photon laser-induced fluorescence of carbon monoxide. Applied Optics, 2019, 58, 7458.	1.8	5
9	Lifetime-filtered laser-induced exciplex fluorescence for crosstalk-free liquid-vapor imaging. Optics Letters, 2019, 44, 1399.	3.3	4
10	Detonation structure evolution in an optically-accessible non-premixed H <sub>2</sub> -Air RDC using MHz rate imaging. , 2020, , .		3
11	Characterization of an integrated nozzle and supersonic axial turbine with a rotating detonation combustor. , 2019, , .		2
12	Megahertz-rate Femtosecond Laser Activation and Sensing of Hydroxyl for Velocimetry in a Rotating Detonation Combustor Exhaust. , 2022, , .		0
13	Detonation wave dynamics of straight and expanding annular injectors using MHz rate OH* chemiluminescence, and URANS simulations. , 2022, , .		0