Arvind Gangoli Rao

List of Publications by Year
in descending order

25 papers	644 citations	759233 12 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	455 citing authors

#	Article	IF	Citations
1	Flameless combustion and its potential towards gas turbines. Progress in Energy and Combustion Science, 2018, 69, 28-62.	31.2	149
2	Evaluating the climate impact of aviation emission scenarios towards the Paris agreement including COVID-19 effects. Nature Communications, 2021, 12, 3841.	12.8	116
3	Numerical investigations of heat transfer and pressure drop characteristics in multiple jet impingement system. Applied Thermal Engineering, 2017, 110, 1511-1524.	6.0	68
4	Performance assessment of a multi-fuel hybrid engine for future aircraft. Aerospace Science and Technology, 2018, 77, 217-227.	4.8	36
5	A hybrid engine concept for multi-fuel blended wing body. Aircraft Engineering and Aerospace Technology, 2014, 86, 483-493.	0.8	34
6	Performance analysis of an aero engine with inter-stage turbine burner. Aeronautical Journal, 2017, 121, 1605-1626.	1.6	33
7	Energy Transition in Aviation: The Role of Cryogenic Fuels. Aerospace, 2020, 7, 181.	2.2	31
8	Emission Modeling of an Interturbine Burner Based on Flameless Combustion. Energy & Fuels, 2018, 32, 822-838.	5.1	30
9	Assessing the climate impact of the AHEAD multi-fuel blended wing body. Meteorologische Zeitschrift, 2017, 26, 711-725.	1.0	24
10	Performance analysis of an electrically assisted propulsion system for a short-range civil aircraft. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 1490-1502.	1.3	17
11	Spray Combustion Modeling in Lean Direct Injection Combustors, Part I: Single-Element LDI. Combustion Science and Technology, 2015, 187, 537-557.	2.3	14
12	Natural gas displacement by wind curtailment utilization in combined-cycle power plants. Energy, 2019, 168, 477-491.	8.8	12
13	A review of gas turbine engine with inter-stage turbine burner. Progress in Aerospace Sciences, 2020, 121, 100695.	12.1	12
14	Effects of chemical reaction mechanism and NO_x formation pathways on an inter-turbine burner. Aeronautical Journal, 2019, 123, 1898-1918.	1.6	10
15	Spray Combustion Modeling in Lean Direct Injection Combustors, Part II: Multi-Point LDI. Combustion Science and Technology, 2015, 187, 558-576.	2.3	8
16	Modeling Pollutant Emissions of Flameless Combustion With a Joint CFD and Chemical Reactor Network Approach. Frontiers in Mechanical Engineering, 2019, 5, .	1.8	8
17	Power Balance Analysis Experiments on an Axisymmetric Fuselage with an Integrated Boundary-Layer-Ingesting Fan. AIAA Journal, 2021, 59, 5211-5224.	2.6	7
18	Spiral instability modes on rotating cones in high-Reynolds number axial flow. Physics of Fluids, 2022, 34, 034109.	4.0	6

#	Article	IF	Citations
19	Effect of film cooling on the aerodynamic performance of an airfoil. International Journal of Heat and Fluid Flow, 2017, 66, 108-120.	2.4	5
20	An experimental method to investigate coherent spiral vortices in the boundary layer over rotating bodies of revolution. Experiments in Fluids, 2019, 60, 1.	2.4	5
21	Boundary layer instability over a rotating slender cone under non-axial inflow. Journal of Fluid Mechanics, 2021, 910, .	3.4	5
22	Evolution of Emission Species in an Aero-Engine Turbine Stator. Aerospace, 2021, 8, 11.	2.2	5
23	Aeropropulsive Performance Analysis of Axisymmetric Fuselage Bodies for Boundary-Layer Ingestion Applications. AIAA Journal, 2022, 60, 1592-1611.	2.6	5
24	Experimental and Numerical Analyses of a Novel Wing-In-Ground Vehicle. Energies, 2022, 15, 1497.	3.1	3
25	Aerodynamic Performance of an Aircraft with Aft-Fuselage Boundary-Layer-Ingestion Propulsion. Journal of Aircraft, 0, , 1-17.	2.4	1