Gautam Choubey

List of Publications by Year
in descending order

38 papers	1,918 citations	218677 26 h-index	377865 34 g-index
40 all docs	40 docs citations	40 times ranked	325 citing authors

#	Article	IF	Citations
1	Recent advances in cavity-based scramjet engine- a brief review. International Journal of Hydrogen Energy, 2019, 44, 13895-13909.	7.1	164
2	Hydrogen fuel in scramjet engines - A brief review. International Journal of Hydrogen Energy, 2020, 45, 16799-16815.	7.1	134
3	Effect of variation of angle of attack on the performance of two-strut scramjet combustor. International Journal of Hydrogen Energy, 2016, 41, 11455-11470.	7.1	131
4	Effect of different wall injection schemes on the flow-field of hydrogen fuelled strut-based scramjet combustor. Acta Astronautica, 2018, 145, 93-104.	3.2	122
5	Effect of different strut + wall injection techniques on the performance of two-strut scramjet combustor. International Journal of Hydrogen Energy, 2017, 42, 13259-13275.	7.1	105
6	Effect of parametric variation of strut layout and position on the performance of a typical two-strut based scramjet combustor. International Journal of Hydrogen Energy, 2017, 42, 10485-10500.	7.1	104
7	Recent research progress on transverse injection technique for scramjet applications-a brief review. International Journal of Hydrogen Energy, 2020, 45, 27806-27827.	7.1	91
8	Investigation on the effects of operating variables on the performance of two-strut scramjet combustor. International Journal of Hydrogen Energy, 2016, 41, 20753-20770.	7.1	90
9	Effect of variation of length-to-depth ratio and Mach number on the performance of a typical double cavity scramjet combustor. Acta Astronautica, 2016, 128, 540-550.	3.2	89
10	Effect of variation of inlet boundary conditions on the combustion flow-field of a typical double cavity scramjet combustor. International Journal of Hydrogen Energy, 2018, 43, 8139-8151.	7.1	73
11	Numerical investigation on mixing improvement mechanism of transverse injection based scramjet combustor. Acta Astronautica, 2021, 188, 426-437.	3.2	68
12	Renewable Pathway and Twin Fueling Approach on Ignition Analysis of a Dual-Fuelled Compression Ignition Engine. Energy & Fuels, 2021, 35, 9930-9936.	5.1	65
13	Effect of variation of hydrogen injection pressure and inlet air temperature on the flow-field of a typical double cavity scramjet combustor. International Journal of Hydrogen Energy, 2017, 42, 20824-20834.	7.1	60
14	Computational Analysis of Hypersonic Combustor Using Strut Injector at Flight Mach 7. Combustion Science and Technology, 2015, 187, 1392-1407.	2.3	50
15	Influence of the secondary flow control on the transverse gaseous injection flow field properties in a supersonic flow. Acta Astronautica, 2019, 165, 150-157.	3.2	49
16	Numerical Investigation on Hydrogen-Fueled Scramjet Combustor with Parallel Strut Fuel Injector at a Flight Mach Number of 6. Journal of Applied Fluid Mechanics, 2016, 9, 1215-1220.	0.2	47
17	Computational simulation of multi-strut central lobed injection of hydrogen in a scramjet combustor. Perspectives in Science, 2016, 8, 222-224.	0.6	44
18	Influence of backward-facing step on the mixing efficiency of multi microjets at supersonic flow. Acta Astronautica, 2020, 175, 37-44.	3.2	44

#	Article	IF	Citations
19	A brief review on the recent advances in scramjet engine. AIP Conference Proceedings, 2017, , .	0.4	40
20	Numerical investigation on geometric sensitivity and flame stabilisation mechanism in H2 fueled two-strut based scramjet combustor. Fuel, 2022, 312, 122847.	6.4	39
21	Improvement of heat transfer through fins: A brief review ofÂrecent developments. Heat Transfer, 2020, 49, 1658-1685.	3.0	37
22	Parametric study on mixing augmentation mechanism induced by cantilevered ramp injectors in a shock-induced combustion ramjet engine. Aerospace Science and Technology, 2021, 108, 106413.	4.8	36
23	Composite materials used in Scramjet- A Review. Materials Today: Proceedings, 2018, 5, 1321-1326.	1.8	35
24	Experimental analysis of Sterculia foetida biodiesel and butanol blends as a renewable and eco-friendly fuel. Industrial Crops and Products, 2022, 178, 114612.	5.2	33
25	Numerical Studies on the Performance of Scramjet Combustor with Alternating Wedge-Shaped Strut Injector. International Journal of Turbo and Jet Engines, 2017, 34, .	0.7	30
26	Computational Investigation of Multi-Strut Injection of Hydrogen in a Scramjet Combustor. Materials Today: Proceedings, 2017, 4, 2608-2614.	1.8	30
27	Study on the effect on combining long-chain additive with neat bio-diesel fueled engine to examine its ignition characteristics. Fuel, 2020, 279, 118400.	6.4	30
28	Computational study of the multi hydrogen jets in presence of the upstream step in a Ma=4 supersonic flow. International Journal of Hydrogen Energy, 2020, 45, 31118-31129.	7.1	18
29	Design exploration on the mixing augmentation induced by the oblique shock wave and a novel step in a supersonic flow. Acta Astronautica, 2021, 180, 622-629.	3.2	15
30	Numerical study on a novel device for hydrogen mixing enhancement in a scramjet engine: Coaxial injector. Aerospace Science and Technology, 2022, 127, 107680.	4.8	15
31	Design exploration on the drag reduction and thermal protection over a blunted waverider with multiple opposing jets. Aerospace Science and Technology, 2022, 124, 107519.	4.8	9
32	Analytical study of temperature distribution in a rectangular porous fin considering both insulated and convective tip. AIP Conference Proceedings, 2017, , .	0.4	8
33	Performance evaluation of perforated pin fin heat sink using particle swarm optimization and MCDM techniques. Journal of Thermal Analysis and Calorimetry, 2022, 147, 5133-5150.	3.6	7
34	Computational investigation of heat transfer analysis through perforated pin fins of different materials. AIP Conference Proceedings, 2017, , .	0.4	4
35	Production Process Optimization study on the synthesis of Manilkara zapota seed bio-oil and its characterization. Biomass Conversion and Biorefinery, 0, , 1.	4.6	2
36	Prospects of micro-hydropower plants in Northeast India: a brief review. International Journal of Energy and Water Resources, 0, , 1.	2.2	0

#	Article	IF	Citations
37	Advances in scramjet fuel injection technology. , 2022, , 65-158.		0
38	Pedagogy for the computational approach in simulating supersonic flows. , 2022, , 163-181.		0