

Zhao-bo Du

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

771
citations

623734

14
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

234
citing authors

#	ARTICLE	IF	CITATIONS
1	Flame propagation and stabilization in dual-mode scramjet combustors: A survey. <i>Progress in Aerospace Sciences</i> , 2018, 101, 13-30.	12.1	163
2	Supersonic mixing in airbreathing propulsion systems for hypersonic flights. <i>Progress in Aerospace Sciences</i> , 2019, 109, 100545.	12.1	146
3	Drag and heat flux reduction mechanism induced by the spike and its combinations in supersonic flows: A review. <i>Progress in Aerospace Sciences</i> , 2019, 105, 31-39.	12.1	95
4	Numerical investigation and optimization on the micro-ramp vortex generator within scramjet combustors with the transverse hydrogen jet. <i>Aerospace Science and Technology</i> , 2019, 84, 570-584.	4.8	59
5	Reynolds-average Navier-Stokes study of steady and pulsed gaseous jets with different periods for the shock-induced combustion ramjet engine. <i>Physics of Fluids</i> , 2019, 31, .	4.0	36
6	Parametric study on mixing augmentation mechanism induced by cantilevered ramp injectors in a shock-induced combustion ramjet engine. <i>Aerospace Science and Technology</i> , 2021, 108, 106413.	4.8	36
7	RANS study of steady and pulsed gaseous jets into a supersonic crossflow. <i>International Journal of Heat and Mass Transfer</i> , 2019, 136, 157-169.	4.8	29
8	Impacts of jet angle and jet-to-crossflow pressure ratio on the mixing augmentation mechanism in a shcramjet engine. <i>Aerospace Science and Technology</i> , 2019, 94, 105385.	4.8	26
9	Design exploration on the shock wave/turbulence boundary layer control induced by the secondary recirculation jet. <i>Acta Astronautica</i> , 2021, 181, 468-481.	3.2	23
10	Parametric study on mixing augmentation mechanism induced by air injection in a shock-induced combustion ramjet engine. <i>Energy</i> , 2019, 186, 115895.	8.8	17
11	Investigation on the impact of the induced shock wave on the hydrogen mixing augmentation in a supersonic crossflow: A numerical study. <i>Fuel</i> , 2022, 312, 122961.	6.4	17
12	Drag and heat flux reduction mechanism induced by the combinational forward-facing cavity and pulsed counterflowing jet configuration in supersonic flows. <i>Acta Astronautica</i> , 2019, 160, 62-75.	3.2	16
13	Mixing augmentation mechanism induced by the dual injection concept in shcramjet engines. <i>Acta Astronautica</i> , 2019, 156, 1-13.	3.2	16
14	Design exploration on the mixing augmentation induced by the oblique shock wave and a novel step in a supersonic flow. <i>Acta Astronautica</i> , 2021, 180, 622-629.	3.2	15
15	Numerical study on a novel device for hydrogen mixing enhancement in a scramjet engine: Coaxial injector. <i>Aerospace Science and Technology</i> , 2022, 127, 107680.	4.8	15
16	Investigation on the adaptive control of shock wave/turbulent boundary layer interaction based on the secondary circulation jets. <i>Acta Astronautica</i> , 2022, 198, 233-250.	3.2	14
17	Investigation on the three-dimensional shock wave/turbulence boundary layer control induced by the secondary recirculation jets. <i>Computers and Fluids</i> , 2022, 237, 105341.	2.5	12
18	Investigation on gaseous jet in forebody/inlet for shock-induced combustion ramjet (shcramjet) engines. <i>Acta Astronautica</i> , 2018, 152, 262-274.	3.2	10

#	ARTICLE	IF	CITATIONS
19	Mixing augmentation induced by the combination of the oblique shock wave and secondary recirculation jet in a supersonic crossflow. International Journal of Hydrogen Energy, 2022, 47, 7458-7477.	7.1	10
20	Structural design and analysis of a composite wing with high aspect ratio. Journal of Zhejiang University: Science A, 2019, 20, 781-793.	2.4	9
21	Hydrogen mixing augmentation mechanism induced by the vortex generator and oblique shock wave in a scramjet engine. International Journal of Hydrogen Energy, 2022, 47, 20232-20253.	7.1	7