

# Zijian Zhang

## List of Publications by Year in descending order

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18  
papers

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docs citations

18  
times ranked

114  
citing authors

#	ARTICLE	IF	CITATIONS
1	A theoretical method for solving shock relations coupled with chemical equilibrium and its applications. Chinese Journal of Aeronautics, 2022, 35, 47-62.	5.3	8
2	An experimental study of formation of stabilized oblique detonation waves in a combustor. Combustion and Flame, 2022, 237, 111868.	5.2	22
3	Mechanisms of the destabilized Mach reflection of inviscid oblique detonation waves before an expansion corner. Journal of Fluid Mechanics, 2022, 940, .	3.4	3
4	Formation of stabilized oblique detonation waves in a combustor. Combustion and Flame, 2021, 223, 423-436.	5.2	33
5	Criteria for hypersonic airbreathing propulsion and its experimental verification. Chinese Journal of Aeronautics, 2021, 34, 94-104.	5.3	55
6	Optimal design of tapered composite structures with a dynamic boundary subset blending model. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2021, 235, 2047-2058.	1.3	1
7	Numerical investigation of free oblique detonation wave induced by non-intrusive energy deposition. AIP Advances, 2021, 11, 125119.	1.3	1
8	Effects of Different Particle Size Distributions on Aluminum Particle-Air Detonation. AIAA Journal, 2020, 58, 3115-3128.	2.6	4
9	Aerodynamic principles of shock-induced combustion ramjet engines. Aerospace Science and Technology, 2020, 103, 105901.	4.8	10
10	Numerical investigation of a Mach 9 oblique detonation engine with fuel pre-injection. Aerospace Science and Technology, 2020, 105, 106054.	4.8	34
11	Numerical study on reflection of an oblique detonation wave on an outward turning wall. Physics of Fluids, 2020, 32, 046101.	4.0	27
12	Unsteady combustion mode with a super-high frequency induced by a curved shock. Physics of Fluids, 2020, 32, 116101.	4.0	5
13	Initiation of oblique detonation waves induced by a blunt wedge in stoichiometric hydrogen-air mixtures. Aerospace Science and Technology, 2019, 92, 676-684.	4.8	25
14	Effects of boundary layer on wedge-induced oblique detonation structures in hydrogen-air mixtures. International Journal of Hydrogen Energy, 2019, 44, 23429-23435.	7.1	35
15	Application of CE/SE method to gas-particle two-phase detonations under an Eulerian-Lagrangian framework. Journal of Computational Physics, 2019, 394, 18-40.	3.8	11
16	Effects of Bogies on the Wake Flow of a High-Speed Train. Applied Sciences (Switzerland), 2019, 9, 759.	2.5	8
17	A theoretical and computational study of the vibration excitation on the transition criteria of shock wave reflections. Aerospace Science and Technology, 2019, 89, 299-306.	4.8	5
18	Hypervelocity flow visualization experiment in the JF-16 expansion tunnel. AIP Conference Proceedings, 2018, , .	0.4	0