Rajesh Gopalapillai

List of Publications by Year
in descending order

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17	169	1163117 8	1125743 13
papers	citations	h-index	g-index

18	18	18	115
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prediction of Mach stem height in compressible open jets. Part 1. Overexpanded jets. Journal of Fluid Mechanics, 2022, 942, .	3.4	4
2	Propagation of a planar shock wave along a convexâ€“concave ramp. Journal of Fluid Mechanics, 2021, 924, .	3.4	2
3	Dynamic effects in transition from regular to Mach reflection in steady supersonic flows. Physical Review E, 2021, 104, 055101.	2.1	5
4	Flow interactions on supersonic projectiles in transitional ballistic regimes. Journal of Fluid Mechanics, 2020, 894, .	3.4	5
5	An analytical model for asymmetric Mach reflection configuration in steady flows. Journal of Fluid Mechanics, 2019, 863, 242-268.	3.4	14
6	Physics of vacuum generation in zero-secondary flow ejectors. Physics of Fluids, 2018, 30, .	4.0	27
7	Shock transformation and hysteresis in underexpanded confined jets. Journal of Fluid Mechanics, 2017, 823, 538-561.	3.4	17
8	Starting Transients in Vacuum Ejector-Diffuser System. Journal of Propulsion and Power, 2014, 30, 1213-1223.	2.2	15
9	Launch Dynamics of Supersonic Projectiles. Journal of Spacecraft and Rockets, 2013, 50, 1150-1161.	1.9	8
10	Numerical simulation of transient flows in a vacuum ejector-diffuser system. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2010, 224, 777-786.	1.3	17
11	Projectile Aerodynamics Overtaking a Shock Wave. Journal of Spacecraft and Rockets, 2008, 45, 1251-1261.	1.9	8
12	Performance analysis and enhancement of the ballistic range. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2007, 221, 649-659.	1.3	8
13	A study of unsteady projectile aerodynamics using a moving coordinate method. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2007, 221, 691-706.	1.3	6
14	On the near-field aerodynamics of a projectile launched from a ballistic range. Journal of Mechanical Science and Technology, 2007, 21, 1129-1138.	1.5	9
15	Computational analysis of the compressible flow driven by a piston in a ballistic range. Journal of Thermal Science, 2007, 16, 360-369.	1.9	2
16	Optimization study of a Coanda ejector. Journal of Thermal Science, 2006, 15, 331-336.	1.9	17
17	A theoretical study for the design of a new ballistic range. Journal of Mechanical Science and Technology, 2006, 20, 1019-1029.	1.5	4