

Hans Hornung

List of Publications by Year in descending order

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17
papers

939
citations

758635

12
h-index

996533

15
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18
all docs

18
docs citations

18
times ranked

247
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition to Mach reflexion of shock waves in steady and pseudosteady flow with and without relaxation. Journal of Fluid Mechanics, 1979, 90, 541-560.	1.4	235
2	Non-equilibrium dissociating nitrogen flow over spheres and circular cylinders. Journal of Fluid Mechanics, 1972, 53, 149.	1.4	192
3	Transition from regular to Mach reflection of shock waves Part 2. The steady-flow criterion. Journal of Fluid Mechanics, 1982, 123, 155-164.	1.4	148
4	Non-equilibrium dissociating flow over spheres. Journal of Fluid Mechanics, 1995, 299, 389-405.	1.4	121
5	The influence of relaxation on shock detachment. Journal of Fluid Mechanics, 1979, 93, 225.	1.4	64
6	Transition from regular to Mach reflection of shock waves Part 1. The effect of viscosity in the pseudosteady case. Journal of Fluid Mechanics, 1982, 123, 143-153.	1.4	50
7	Non-equilibrium ideal-gas dissociation after a curved shock wave. Journal of Fluid Mechanics, 1976, 74, 143-159.	1.4	27
8	Non-equilibrium dissociating nitrogen flow over a wedge. Journal of Fluid Mechanics, 1974, 64, 725-736.	1.4	21
9	A stationary oblique breaking wave for laboratory testing of surfboards. Journal of Fluid Mechanics, 1976, 78, 459-480.	1.4	19
10	Induction Time for Nitrogen Dissociation. Journal of Chemical Physics, 1972, 56, 3172-3173.	1.2	18
11	Hypersonic flow over spherically blunted cone capsules for atmospheric entry. Part 1. The sharp cone and the sphere. Journal of Fluid Mechanics, 2019, 871, 1097-1116.	1.4	14
12	Unsteadiness boundaries in supersonic flow over double cones. Journal of Fluid Mechanics, 2021, 916, .	1.4	12
13	Shock detachment from cones in a relaxing gas. Journal of Fluid Mechanics, 1980, 101, 307-319.	1.4	9
14	Some aspects of hypersonic flow over power law bodies. Journal of Fluid Mechanics, 1969, 39, 143-162.	1.4	6
15	Shock detachment and drag in hypersonic flow over wedges and circular cylinders. Journal of Fluid Mechanics, 2021, 915, .	1.4	3
16	Interferometric measurements in ionizing radiating flow of carbon dioxide behind normal shock waves. Physics of Fluids, 1976, 19, 165.	1.4	0
17	Stiffness corrections for the vibration frequency of a stretched wire. American Journal of Physics, 1977, 45, 991-993.	0.3	0