

Kaushik Balakrishnan

List of Publications by Year in descending order

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15
papers

242
citations

1040056

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1125743

13
g-index

15
all docs

15
docs citations

15
times ranked

193
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical study of blast characteristics from detonation of homogeneous explosives. Shock Waves, 2010, 20, 147-162.	1.9	39
2	On Richtmyer–Meshkov instability in dilute gas-particle mixtures. Physics of Fluids, 2010, 22, .	4.0	33
3	Fluctuating hydrodynamics of multi-species reactive mixtures. Journal of Chemical Physics, 2015, 142, 224107.	3.0	32
4	High-fidelity modeling and numerical simulation of cratering induced by the interaction of a supersonic jet with a granular bed of solid particles. International Journal of Multiphase Flow, 2018, 99, 1-29.	3.4	30
5	Fluctuating hydrodynamics of multispecies nonreactive mixtures. Physical Review E, 2014, 89, 013017.	2.1	23
6	Characterization of the Mixing Layer Resulting from the Detonation of Heterogeneous Explosive Charges. Flow, Turbulence and Combustion, 2011, 87, 639-671.	2.6	21
7	A multi-species modeling framework for describing supersonic jet-induced cratering in a granular bed: Cratering on Titan case study. International Journal of Multiphase Flow, 2019, 118, 205-241.	3.4	13
8	Explosion-driven Rayleigh-Taylor instability in gas-particle mixtures. Physics of Fluids, 2014, 26, 043303.	4.0	12
9	Fluid density effects in supersonic jet-induced cratering in a granular bed on a planetary body having an atmosphere in the continuum regime. Journal of Fluid Mechanics, 2021, 915, .	3.4	12
10	A multiphase buoyancy-drag model for the study of Rayleigh-Taylor and Richtmyer-Meshkov instabilities in dusty gases. Laser and Particle Beams, 2011, 29, 201-217.	1.0	9
11	Diffusion- and Kinetics-Limited Combustion of an Explosively Dispersed Aluminum Particle. Journal of Propulsion and Power, 2014, 30, 522-526.	2.2	9
12	On bubble and spike oscillations in a dusty gas Rayleigh-Taylor instability. Laser and Particle Beams, 2012, 30, 633-638.	1.0	5
13	Ejecta from Granular-Medium Cratering by a Supersonic Jet Entering a Continuum Atmosphere. AIAA Journal, 0, , 1-16.	2.6	2
14	Using Neural Networks to Model Detonations in Aluminum–Air Mixtures. Journal of Propulsion and Power, 2017, 33, 1596-1600.	2.2	1
15	Cratering in a Granular Bed due to an Impinging Supersonic Jet Penetrating a Planetary Atmosphere in the Continuum Regime. , 2021, , .		1