

Ashwin Chinnayya

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

929
citations

430874

18
h-index

454955

30
g-index

40
all docs

40
docs citations

40
times ranked

549
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical analysis on behavior of dilute water droplets in detonation. Proceedings of the Combustion Institute, 2021, 38, 3709-3716.	3.9	7
2	The influence of the equation of state on the cellular structure of gaseous detonations. Physics of Fluids, 2021, 33, .	4.0	20
3	Computation of the mean hydrodynamic structure of gaseous detonations with losses. Shock Waves, 2020, 30, 645-669.	1.9	12
4	Influence of the chemical modeling on the quenching limits of gaseous detonation waves confined by an inert layer. Combustion and Flame, 2020, 218, 247-259.	5.2	24
5	Effect of incident laser sheet orientation on the OH-PLIF imaging of detonations. Shock Waves, 2020, 30, 689-702.	1.9	12
6	Numerical analysis of the mean structure of gaseous detonation with dilute water spray. Journal of Fluid Mechanics, 2020, 887, .	3.4	27
7	Numerical Investigation on Characteristic Lengths for Gaseous Detonation with Dilute Water Spray. , 2019, , .		2
8	On the viscous boundary layer of weakly unstable detonations in narrow channels. Computers and Fluids, 2019, 179, 449-458.	2.5	21
9	Numerical study of 3D gaseous detonations in a square channel. Aerotecnica Missili & Spazio, 2018, 97, 96-102.	0.9	5
10	Emission spectroscopy for monitoring condensed carbon in detonation products of oxygen-deficient high explosives. AIP Conference Proceedings, 2018, , .	0.4	0
11	Investigation of JWL Equation of State for Detonation Products at Low Pressure With Radio Interferometry. Propellants, Explosives, Pyrotechnics, 2018, 43, 1157-1163.	1.6	5
12	CAPTURE OF PARTICLES DISPERSED BY DETONATION USING AN AQUEOUS FOAM CONFINEMENT. , 2018, , .		0
13	Transient simulation of a two-phase loop thermosyphon with a model out of thermodynamic equilibrium. International Journal of Heat and Mass Transfer, 2017, 108, 2321-2332.	4.8	16
14	A computational study of the interaction of gaseous detonations with a compressible layer. Physics of Fluids, 2017, 29, .	4.0	57
15	Modelling compressible dense and dilute two-phase flows. Physics of Fluids, 2017, 29, .	4.0	45
16	Ethylene-air detonation in water spray. Shock Waves, 2016, 26, 561-572.	1.9	19
17	Shock waves in sprays: numerical study of secondary atomization and experimental comparison. Shock Waves, 2016, 26, 403-415.	1.9	19
18	Computational study of non-ideal and mildly-unstable detonation waves. Computers and Fluids, 2015, 119, 47-57.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Analysis of shock-wave propagation in aqueous foams using shock tube experiments. <i>Physics of Fluids</i> , 2015, 27, .	4.0	14
20	Numerical Modelling of Shock-Wave Propagation in a Shock Tube Filled with Aqueous Foam. , 2015, , 1511-1516.		0
21	Experimental Investigation of Shock-Wave Propagation in Aqueous Foam. , 2015, , 1487-1492.		0
22	Mean structure of one-dimensional unstable detonations with friction. <i>Journal of Fluid Mechanics</i> , 2014, 743, 503-533.	3.4	26
23	Macro-mechanical modelling of blast wave mitigation in foams. Part I: review of available experiments and models. <i>Shock Waves</i> , 2013, 23, 5-23.	1.9	33
24	Blast wave mitigation by dry aqueous foams. <i>Shock Waves</i> , 2013, 23, 39-53.	1.9	48
25	Computational study of detonation wave propagation in narrow channels. <i>Physics of Fluids</i> , 2013, 25, .	4.0	31
26	Effect of friction and heat losses on the mean structure of one-dimensional detonations. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	1
27	Numerical Study of Detonation Wave Propagation in Narrow Channels. , 2012, , 385-390.		0
28	Secondary Atomization on Two-Phase Shock Wave Structure. , 2012, , 95-100.		1
29	Blast Wave Attenuation by Dry Aqueous Foams. , 2012, , 93-98.		1
30	Numerical Study of Compressible Mixing Layers Using High-Order WENO Schemes. <i>Journal of Scientific Computing</i> , 2011, 47, 170-197.	2.3	47
31	On the use of immersed boundary methods for shock/obstacle interactions. <i>Journal of Computational Physics</i> , 2011, 230, 1731-1748.	3.8	130
32	Application of the dynamic model of Saeman to an industrial rotary kiln incinerator: Numerical and experimental results. <i>Waste Management</i> , 2010, 30, 1188-1195.	7.4	21
33	Numerical study of shock propagation and attenuation in narrow tubes including friction and heat losses. <i>Computers and Fluids</i> , 2010, 39, 1711-1721.	2.5	36
34	Modeling of aqueous foam blast wave attenuation. <i>EPJ Web of Conferences</i> , 2010, 10, 00035.	0.3	3
35	Modelling detonation waves in condensed energetic materials: multiphase CJ conditions and multidimensional computations. <i>Shock Waves</i> , 2009, 19, 377-401.	1.9	62
36	Characterization of pneumatic transportation of pulverised coal in a horizontal pipeline through measurement and computational modelling. <i>Fuel</i> , 2009, 88, 2348-2356.	6.4	9

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37	Experimental study and global model of PAH formation from coal combustion. Journal of the Energy Institute, 2007, 80, 12-21.	5.3	4
38	Pressure relaxation procedures for multiphase compressible flows. International Journal for Numerical Methods in Fluids, 2005, 49, 1-56.	1.6	43
39	Modelling detonation waves in heterogeneous energetic materials. Journal of Computational Physics, 2004, 196, 490-538.	3.8	110
40	Thermodynamic analysis and numerical resolution of a turbulent - fully ionized plasma flow model. Shock Waves, 2003, 13, 283-297.	1.9	12