Ashvin Hosangadi

List of Publications by Year
in descending order

36 papers	670 citations	1040056 9 h-index	1281871 11 g-index
36 all docs	36 docs citations	36 times ranked	243 citing authors

#	Article	IF	Citations
1	Simulations of Cavitating Flows Using Hybrid Unstructured Meshes. Journal of Fluids Engineering, Transactions of the ASME, 2001, 123, 331-340.	1.5	174
2	Numerical Study of Cavitation in Cryogenic Fluids. Journal of Fluids Engineering, Transactions of the ASME, 2005, 127, 267-281.	1.5	140
3	Upwind unstructured scheme for three-dimensional combusting flows. Journal of Propulsion and Power, 1996, 12, 494-502.	2.2	106
4	Analysis of Thermal Effects in Cavitating Liquid Hydrogen Inducers. Journal of Propulsion and Power, 2007, 23, 1225-1234.	2.2	30
5	Impeller Design of a Centrifugal Fan with Blade Optimization. International Journal of Rotating Machinery, 2011, 2011, 1-16.	0.8	25
6	Modeling Multiphase Effects in CO2 Compressors at Subcritical Inlet Conditions. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	23
7	Three-Dimensional Hybrid RANS/LES Simulations of a Supercritical Liquid Nitrogen Jet. , 2008, , .		22
8	Multi-Element Unstructured Methodology for Analysis of Turbomachinery Systems. Journal of Propulsion and Power, 2003, 19, 945-952.	2.2	16
9	Computational Analyses of Pressurization in Cryogenic Tanks. , 2008, , .		12
10	Analysis of Flame Deflector Spray Nozzles in Rocket Engine Test Stands. , 2010, , .		11
11	Improved Flux Formulations for Unsteady Low Mach Number Flows. , 2012, , .		10
12	A Generalized Multi-Phase Framework For Modeling Cavitation In Cryogenic Fluids (Invited). , 2003, , .		9
13	Multi-Element Unstructured Analyses of Complex Valve Systems. Journal of Fluids Engineering, Transactions of the ASME, 2006, 128, 707-716.	1.5	9
14	Shape Optimization of a Multi-Element Foil Using an Evolutionary Algorithm. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, .	1.5	9
15	Molecular models for phase equilibria of alkanes with air components and combustion products I. Alkane mixtures with nitrogen, CO2 and water. Fluid Phase Equilibria, 2020, 514, 112553.	2.5	9
16	Transient Simulations of Valve Motion in Cryogenic Systems. , 2005, , .		8
17	Simulation of weapons bay store separation flowfields using unstructured grids. , 1999, , .		6
18	Simulations of Cavitating Cryogenic Inducers. , 2004, , .		6

#	Article	IF	Citations
19	Numerical Study of a Flat Plate Inducer: Comparison of Performance in Liquid Hydrogen and Water. , 2006, , .		6
20	Simulation of Cavitating Flows in Turbopumps. , 2003, , .		5
21	Unsteady Analyses of Valve Systems in Rocket Engine Testing Environments. , 2004, , .		5
22	Design Optimization of Complex Flowfields Using Evolutionary Algorithms and Hybrid Unstructured CFD. , 2005, , .		5
23	Generalized Numerical Framework for Cavitation in Inducers. , 2003, , 1239.		4
24	Simulation of Propellant Explosions Resulting from Crew Launch Vehicle Tank Failure. , 2008, , .		4
25	Impinging Fuel Injector Atomization and Combustion Modeling. , 2015, , .		4
26	Computational Analyses in Support of Sub-Scale Diffuser Testing for the A-3 Facility. Part 1: Steady Predictions. , 2009, , .		3
27	Failure Mode Analysis of V-Shaped Pyrotechnically Actuated Valves. , 2012, , .		3
28	Modeling Chatter in a Pressure Regulator Valve with a Multi-Physics Simulation Framework. , 2008, , .		2
29	Simulations of a Liquid Hydrogen Inducer at Low-Flow Off-Design Flow Conditions. , 2005, , .		1
30	Simulations for Assessing Potential Impact of Ares I Propellant Tank Common Bulkhead Failure. , 2009, , .		1
31	A Multi-Time-Scale Flamelet Progress Variable Approach in OpenNCC for Predicting NOx Applied to Commercial Supersonic Transport Combustor Designs. , 2020, , .		1
32	Molecular models for phase equilibria of alkanes with air components and combustion products II. Alkane â€“ Oxygen mixtures. Fluid Phase Equilibria, 2020, 520, 112650.	2.5	1
33	Computational Modeling of Liquid and Gaseous Control Valves. , 2005, , .		0
34	Computational Analyses in Support of Sub-Scale Diffuser Testing for the A-3 Facility. Part 2: Unsteady Analyses and Risk. , 2009, , .		0
35	Extension of the Laminar Flamelet Model to Account for Wall Heat Losses in Rocket Engine Combustor Simulations. , 2015, , .		0
36	Numerical Framework for Simulation of Propulsive Systems at Sub-Critical Conditions. , 2018, , .		0