Mark Owkes

List of Publications by Year
in descending order

18 papers	**430** citations	1163117 **8** h-index	996975 **15** g-index
18 all docs	**18** docs citations	**18** times ranked	**369** citing authors

#	Article	IF	Citations
1	A computational framework for conservative, three-dimensional, unsplit, geometric transport with application to the volume-of-fluid (VOF) method. Journal of Computational Physics, 2014, 270, 587-612.	3.8	97
2	DIRECT NUMERICAL AND LARGE-EDDY SIMULATION OF PRIMARY ATOMIZATION IN COMPLEX GEOMETRIES. Atomization and Sprays, 2013, 23, 1001-1048.	0.8	75
3	A discontinuous Galerkin conservative level set scheme for interface capturing in multiphase flows. Journal of Computational Physics, 2013, 249, 275-302.	3.8	57
4	A mesh-decoupled height function method for computing interface curvature. Journal of Computational Physics, 2015, 281, 285-300.	3.8	53
5	A mass and momentum conserving unsplit semi-Lagrangian framework for simulating multiphase flows. Journal of Computational Physics, 2017, 332, 21-46.	3.8	49
6	A finite-volume HLLC-based scheme for compressible interfacial flows with surface tension. Journal of Computational Physics, 2017, 339, 46-67.	3.8	47
7	Importance of curvature evaluation scale for predictive simulations of dynamic gas–liquid interfaces. Journal of Computational Physics, 2018, 365, 37-55.	3.8	11
8	Three-Dimensional Velocity and Temperature Field Measurements of Internal and External Turbine Blade Features Using Magnetic Resonance Thermometry. Journal of Turbomachinery, 2019, 141, .	1.7	10
9	Validation of Magnetic Resonance Thermometry through Experimental and Computational Approaches. , 2016, , .		7
10	multiUQ: An intrusive uncertainty quantification tool for gas-liquid multiphase flows. Journal of Computational Physics, 2019, 399, 108951.	3.8	5
11	NUMERICAL STUDY OF ELECTRIC REYNOLDS NUMBER ON ELECTROHYDRODYNAMIC (EHD) ASSISTED ATOMIZATION. Atomization and Sprays, 2017, 27, 645-664.	0.8	4
12	EXTRACTION OF DROPLET GENEALOGIES FROM HIGH-FIDELITY ATOMIZATION SIMULATIONS. Atomization and Sprays, 2019, 29, 709-739.	0.8	4
13	Three-dimensional velocity and concentration measurements and simulations of a scaled Jack Rabbit II mock urban array. Atmospheric Environment, 2020, 233, 117520.	4.1	3
14	A fast, decomposed pressure correction method for an intrusive stochastic multiphase flow solver. Computers and Fluids, 2021, 221, 104930.	2.5	3
15	PRIMARY ATOMIZATION INSTABILITY EXTRACTION USING DYNAMIC MODE DECOMPOSITION. Atomization and Sprays, 2018, 28, 1061-1079.	0.8	2
16	Large-eddy simulation study of injector geometry on liquid jet in cross-flow and validation with experiments. , 2014, , .		1
17	Three Dimensional Velocity and Temperature Field Measurements of Internal and External Turbine Blade Features Using Magnetic Resonance Thermometry. , 2018, , .		1
18	multiUQ: A software package for uncertainty quantification of multiphase flows. Computer Physics Communications, 2021, 268, 108088.	7.5	1