

Simo A MÃ¤kiharju

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4224312/publications.pdf>

Version: 2024-02-01

30
papers

886
citations

623734

14
h-index

552781

26
g-index

30
all docs

30
docs citations

30
times ranked

535
citing authors

#	ARTICLE	IF	CITATIONS
1	Bubbly shock propagation as a mechanism for sheet-to-cloud transition of partial cavities. Journal of Fluid Mechanics, 2016, 802, 37-78.	3.4	239
2	On the scaling of air layer drag reduction. Journal of Fluid Mechanics, 2013, 717, 484-513.	3.4	77
3	Time-resolved two-dimensional X-ray densitometry of a two-phase flow downstream of a ventilated cavity. Experiments in Fluids, 2013, 54, 1.	2.4	67
4	On the energy economics of air lubrication drag reduction. International Journal of Naval Architecture and Ocean Engineering, 2012, 4, 412-422.	2.3	57
5	On the energy economics of air lubrication drag reduction. International Journal of Naval Architecture and Ocean Engineering, 2012, 4, 412-422.	2.3	56
6	On the scaling of air entrainment from a ventilated partial cavity. Journal of Fluid Mechanics, 2013, 732, 47-76.	3.4	54
7	Partial Cavity Drag Reduction at High Reynolds Numbers. Journal of Ship Research, 2010, 54, 109-119.	1.1	51
8	The dynamics of partial cavity formation, shedding and the influence of dissolved and injected non-condensable gas. Journal of Fluid Mechanics, 2017, 829, 420-458.	3.4	44
9	The topology of gas jets injected beneath a surface and subject to liquid cross-flow. Journal of Fluid Mechanics, 2017, 818, 141-183.	3.4	37
10	On multi-point gas injection to form an air layer for frictional drag reduction. Ocean Engineering, 2018, 147, 206-214.	4.3	31
11	Bubbly shock propagation as a mechanism of shedding in separated cavitating flows. Journal of Hydrodynamics, 2017, 29, 907-916.	3.2	22
12	Fine structures in sheared granular flows. Physical Review E, 2002, 66, 021303.	2.1	21
13	Towards breaching a still water surface with a miniature unmanned aerial underwater vehicle. , 2019, , .		17
14	Modeling of aerodynamic disturbances for proximity flight of multirotors. , 2019, , .		17
15	Scaling of Gas Diffusion Into Limited Partial Cavities. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	1.5	16
16	Image Reconstruction for Limited-Angle Electron Beam X-Ray Computed Tomography With Energy-Integrating Detectors for Multiphase Flows. IEEE Transactions on Computational Imaging, 2018, 4, 112-124.	4.4	15
17	Tomographic X-ray particle tracking velocimetry. Experiments in Fluids, 2022, 63, 1.	2.4	15
18	Experimentally validated x-ray image simulations of 50 μ m x-ray PIV tracer particles. Measurement Science and Technology, 2022, 33, 055301.	2.6	9

#	ARTICLE	IF	CITATIONS
19	Air Layer on Superhydrophobic Surface for Frictional Drag Reduction. Journal of Ship Research, 2020, 64, 118-126.	1.1	8
20	Interaction of a Compressible Bubbly Flow With an Obstacle Placed Within a Shedding Partial Cavity. Journal of Physics: Conference Series, 2015, 656, 012151.	0.4	6
21	Scaling analysis of downstream heating and flow dynamics of fires over an inclined surface. Combustion and Flame, 2022, 242, 112203.	5.2	6
22	Effect of Non-Condensable Gas Injection on Cavitation Dynamics of Partial Cavities. Journal of Physics: Conference Series, 2015, 656, 012161.	0.4	5
23	Cavitation bubble dynamics in a shear-thickening fluid. Physical Review Fluids, 2022, 7, .	2.5	5
24	Experimental Methods for the Study of Hydrodynamic Cavitation. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2017, , 35-64.	0.6	3
25	Droplet and particle methods to investigate turbulent particle laden jets. Aerosol Science and Technology, 2021, 55, 1359-1377.	3.1	3
26	Single-phase mixing through a narrow gap. Experimental Thermal and Fluid Science, 2019, 107, 54-68.	2.7	2
27	Jet impingement on the underside of a superhydrophobic surface. Journal of Fluid Mechanics, 2022, 938, .	3.4	2
28	Effect of coherent structures on particle transport and deposition from a cough. Aerosol Science and Technology, 2022, 56, 425-433.	3.1	1
29	High-speed Dynamic Lab-based Micro-CT for Optically Opaque Flows. Microscopy and Microanalysis, 2020, 26, 1004-1005.	0.4	0
30	Time Resolved Two Dimensional X-Ray Densitometry of Ventilated Partial Cavity. , 2012, , .		0