

Nicholas J Williamson

List of Publications by Year in descending order

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39
papers

564
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623734

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39
all docs

39
docs citations

39
times ranked

297
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical simulation of flow in a natural draft wet cooling tower – The effect of radial thermofluid fields. Applied Thermal Engineering, 2008, 28, 178-189.	6.0	70
2	Low-Reynolds-number fountain behaviour. Journal of Fluid Mechanics, 2008, 608, 297-317.	3.4	63
3	Comparison of a 2D axisymmetric CFD model of a natural draft wet cooling tower and a 1D model. International Journal of Heat and Mass Transfer, 2008, 51, 2227-2236.	4.8	55
4	Forced turbulent fountain flow behaviour. Journal of Fluid Mechanics, 2011, 671, 535-558.	3.4	36
5	Thermal optimization of a natural draft wet cooling tower. International Journal of Energy Research, 2008, 32, 1349-1361.	4.5	24
6	Nutrient transport from an artificial upwelling of deep sea water. Journal of Oceanography, 2009, 65, 349-359.	1.7	22
7	Transition to stably stratified states in open channel flow with radiative surface heating. Journal of Fluid Mechanics, 2015, 766, 528-555.	3.4	22
8	Transition behaviour of weak turbulent fountains. Journal of Fluid Mechanics, 2010, 655, 306-326.	3.4	20
9	Line fountain behavior at low-Reynolds number. International Journal of Heat and Mass Transfer, 2010, 53, 2065-2073.	4.8	19
10	Transition to oscillatory flow in a differentially heated cavity with a conducting partition. Journal of Fluid Mechanics, 2012, 693, 93-114.	3.4	19
11	Experimental investigation into turbulent negatively buoyant jets using combined PIV and PLIF measurements. International Journal of Heat and Fluid Flow, 2020, 82, 108561.	2.4	18
12	Evolution of thermally stratified turbulent open channel flow after removal of the heat source. Journal of Fluid Mechanics, 2019, 876, 356-412.	3.4	15
13	Law of the wall for a temporally evolving vertical natural convection boundary layer. Journal of Fluid Mechanics, 2020, 902, .	3.4	15
14	Natural convection in a cavity with time-varying thermal forcing on a sidewall. International Journal of Heat and Mass Transfer, 2020, 150, 119234.	4.8	15
15	Stability and Nusselt number scaling for inclined differentially heated cavity flow. International Journal of Heat and Mass Transfer, 2016, 97, 787-793.	4.8	14
16	Feasibility of air cycle systems for low-temperature refrigeration applications with heat recovery. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2003, 217, 267-273.	2.5	13
17	Turbulence structure of neutral and negatively buoyant jets. Journal of Fluid Mechanics, 2021, 909, .	3.4	13
18	Stability of a temporally evolving natural convection boundary layer on an isothermal wall. Journal of Fluid Mechanics, 2019, 877, 1163-1185.	3.4	12

#	ARTICLE	IF	CITATIONS
19	Shear driven purging of negatively buoyant fluid from trapezoidal depressions and cavities. <i>Physics of Fluids</i> , 2012, 24, .	4.0	11
20	Survival of cyanobacteria in rivers following their release in water from large headwater reservoirs. <i>Harmful Algae</i> , 2018, 75, 1-15.	4.8	11
21	Entrainment and structure of negatively buoyant jets. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	10
22	Destratification of thermally stratified turbulent open-channel flow by surface cooling. <i>Journal of Fluid Mechanics</i> , 2020, 899, .	3.4	9
23	Characterising entrainment in fountains and negatively buoyant jets. <i>Journal of Fluid Mechanics</i> , 2022, 939, .	3.4	9
24	High Grashof number turbulent natural convection on an infinite vertical wall. <i>Journal of Fluid Mechanics</i> , 2021, 929, .	3.4	8
25	Parameterization of mixing in stratified open channel flow. <i>Journal of Fluid Mechanics</i> , 2022, 935, .	3.4	7
26	Experimental investigation of the energy efficiency of gas commercial laundry dryers. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2004, 218, 143-152.	2.5	6
27	Turbulence structure in a very sharp thermally stratified open-channel meander. <i>Physics of Fluids</i> , 2022, 34, 035130.	4.0	6
28	Lateral circulation in a stratified open channel on a 120° bend. <i>Water Resources Research</i> , 2012, 48, .	4.2	5
29	Entrainment across a sheared density interface in a cavity flow. <i>Journal of Fluid Mechanics</i> , 2018, 835, 999-1021.	3.4	4
30	BIFURCATION OF NATURAL CONVECTION FLOW IN AN INCLINED DIFFERENTIALLY HEATED CLOSED SQUARE CAVITY. <i>Computational Thermal Sciences</i> , 2015, 7, 417-425.	0.9	3
31	Entrainment and dilution in a fountain top. <i>Journal of Fluid Mechanics</i> , 2022, 941, .	3.4	3
32	Characteristics of unsteadiness for transitional plane fountains in linearly stratified fluids. <i>International Communications in Heat and Mass Transfer</i> , 2019, 100, 83-97.	5.6	2
33	Buoyancy distribution in a filling box segmented by a planar jet. <i>Environmental Fluid Mechanics</i> , 2021, 21, 239-261.	1.6	2
34	DIRECT NUMERICAL SIMULATION OF A TEMPORALLY DEVELOPING NATURAL CONVECTION BOUNDARY LAYER ON A DOUBLY-INFINITE ISOTHERMAL WALL. , 2018, , .		1
35	A canonical model for stratified flow in estuaries and rivers. <i>ANZIAM Journal</i> , 0, 54, 88.	0.0	1
36	Natural convection in a cavity with time-dependent flux boundary. <i>International Journal of Heat and Fluid Flow</i> , 2021, 92, 108887.	2.4	1

#	ARTICLE	IF	CITATIONS
37	Natural convection stratification and scaling in a cavity with unsteady sidewall heating. AIP Conference Proceedings, 2018, , .	0.4	0
38	Entrainment in pulsing plumes. Experiments in Fluids, 2019, 60, 1.	2.4	0
39	Natural Convection in an Inclined Differentially Heated Square Cavity. , 2014, , .		0