# Nicholas J Williamson

List of Publications by Year
in descending order



| 39 | 564 | 623734 | 642732 |
|---|---|---|---|
| papers | citations | 14 h-index | 23 g-index |

| 39 | 39 | 39 | 297 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Parameterization of mixing in stratified open channel flow. Journal of Fluid Mechanics, 2022, 935, . | 3.4 | 7 |
| 2 | Turbulence structure in a very sharp thermally stratified open-channel meander. Physics of Fluids, 2022, 34, 035130. | 4.0 | 6 |
| 3 | Characterising entrainment in fountains and negatively buoyant jets. Journal of Fluid Mechanics, 2022, 939, . | 3.4 | 9 |
| 4 | Entrainment and dilution in a fountain top. Journal of Fluid Mechanics, 2022, 941, . | 3.4 | 3 |
| 5 | Buoyancy distribution in a filling box segmented by a planar jet. Environmental Fluid Mechanics, 2021, 21, 239-261. | 1.6 | 2 |
| 6 | Entrainment and structure of negatively buoyant jets. Journal of Fluid Mechanics, 2021, 911, . | 3.4 | 10 |
| 7 | Turbulence structure of neutral and negatively buoyant jets. Journal of Fluid Mechanics, 2021, 909, . | 3.4 | 13 |
| 8 | High Grashof number turbulent natural convection on an infinite vertical wall. Journal of Fluid Mechanics, 2021, 929, . | 3.4 | 8 |
| 9 | Natural convection in a cavity with time-dependent flux boundary. International Journal of Heat and Fluid Flow, 2021, 92, 108887. | 2.4 | 1 |
| 10 | Destratification of thermally stratified turbulent open-channel flow by surface cooling. Journal of Fluid Mechanics, 2020, 899, . | 3.4 | 9 |
| 11 | Law of the wall for a temporally evolving vertical natural convection boundary layer. Journal of Fluid Mechanics, 2020, 902, . | 3.4 | 15 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Entrainment in pulsing plumes. Experiments in Fluids, 2019, 60, 1. | 2.4 | 0 |
| 16 | Stability of a temporally evolving natural convection boundary layer on an isothermal wall. Journal of Fluid Mechanics, 2019, 877, 1163-1185. | 3.4 | 12 |
| 17 | Characteristics of unsteadiness for transitional plane fountains in linearly stratified fluids. International Communications in Heat and Mass Transfer, 2019, 100, 83-97. | 5.6 | 2 |
| 18 | Entrainment across a sheared density interface in a cavity flow. Journal of Fluid Mechanics, 2018, 835, 999-1021. | 3.4 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Natural convection stratification and scaling in a cavity with unsteady sidewall heating. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 20 | Survival of cyanobacteria in rivers following their release in water from large headwater reservoirs. Harmful Algae, 2018, 75, 1-15. | 4.8 | 11 |
| 21 | DIRECT NUMERICAL SIMULATION OF A TEMPORALLY DEVELOPING NATURAL CONVECTION BOUNDARY LAYER ON A DOUBLY-INFINITE ISOTHERMAL WALL. , 2018, , . | | 1 |
| 22 | 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 |
| 23 | Transition to stably stratified states in open channel flow with radiative surface heating. Journal of Fluid Mechanics, 2015, 766, 528-555. | 3.4 | 22 |
| 24 | BIFURCATION OF NATURAL CONVECTION FLOW IN AN INCLINED DIFFERENTIALLY HEATED CLOSED SQUARE CAVITY. Computational Thermal Sciences, 2015, 7, 417-425. | 0.9 | 3 |
| 25 | Natural Convection in an Inclined Differentially Heated Square Cavity. , 2014, , . | | 0 |
| 26 | Shear driven purging of negatively buoyant fluid from trapezoidal depressions and cavities. Physics of Fluids, 2012, 24, . | 4.0 | 11 |
| 27 | Transition to oscillatory flow in a differentially heated cavity with a conducting partition. Journal of Fluid Mechanics, 2012, 693, 93-114. | 3.4 | 19 |
| 28 | Lateral circulation in a stratified open channel on a 120Â° bend. Water Resources Research, 2012, 48, . | 4.2 | 5 |
| 29 | Forced turbulent fountain flow behaviour. Journal of Fluid Mechanics, 2011, 671, 535-558. | 3.4 | 36 |
| 30 | Transition behaviour of weak turbulent fountains. Journal of Fluid Mechanics, 2010, 655, 306-326. | 3.4 | 20 |
| 31 | Line fountain behavior at low-Reynolds number. International Journal of Heat and Mass Transfer, 2010, 53, 2065-2073. | 4.8 | 19 |
| 32 | Nutrient transport from an artificial upwelling of deep sea water. Journal of Oceanography, 2009, 65, 349-359. | 1.7 | 22 |
| 33 | Thermal optimization of a natural draft wet cooling tower. International Journal of Energy Research, 2008, 32, 1349-1361. | 4.5 | 24 |
| 34 | Numerical simulation of flow in a natural draft wet cooling tower â€“ The effect of radial thermofluid fields. Applied Thermal Engineering, 2008, 28, 178-189. | 6.0 | 70 |
| 35 | 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 |
| 36 | Low-Reynolds-number fountain behaviour. Journal of Fluid Mechanics, 2008, 608, 297-317. | 3.4 | 63 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Experimental investigation of the energy efficiency of gas commercial laundry dryers. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2004, 218, 143-152. | 2.5 | 6 |
| 38 | 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 |
| 39 | A canonical model for stratified flow in estuaries and rivers. ANZIAM Journal, 0, 54, 88. | 0.0 | 1 |