

Gary Hunt

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

1,219
citations

20
h-index

34
g-index

53
ext. papers

1,397
ext. citations

3.4
avg, IF

4.86
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 51 | Virtual origin correction for lazy turbulent plumes. <i>Journal of Fluid Mechanics</i> , 2001 , 435, 377-396 | 3.7 | 163 |
| 50 | Steady-state flows in an enclosure ventilated by buoyancy forces assisted by wind. <i>Journal of Fluid Mechanics</i> , 2001 , 426, 355-386 | 3.7 | 86 |
| 49 | Lazy plumes. <i>Journal of Fluid Mechanics</i> , 2005 , 533, | 3.7 | 84 |
| 48 | Weak fountains. <i>Journal of Fluid Mechanics</i> , 2006 , 558, 319 | 3.7 | 83 |
| 47 | Time-dependent flows in an emptying filling box. <i>Journal of Fluid Mechanics</i> , 2004 , 520, 135-156 | 3.7 | 76 |
| 46 | Classical plume theory: 1937-2010 and beyond. <i>IMA Journal of Applied Mathematics</i> , 2011 , 76, 424-448 | 1 | 66 |
| 45 | Displacement and mixing ventilation driven by opposing wind and buoyancy. <i>Journal of Fluid Mechanics</i> , 2005 , 527, 27-55 | 3.7 | 52 |
| 44 | CFD Modelling of Natural Ventilation: Combined Wind and Buoyancy Forces. <i>International Journal of Ventilation</i> , 2003 , 1, 169-179 | 1.1 | 50 |
| 43 | The rise heights of low- and high-Froude-number turbulent axisymmetric fountains. <i>Journal of Fluid Mechanics</i> , 2012 , 691, 392-416 | 3.7 | 49 |
| 42 | Dynamical variability of axisymmetric buoyant plumes. <i>Journal of Fluid Mechanics</i> , 2015 , 765, 576-611 | 3.7 | 42 |
| 41 | Overturning in a filling box. <i>Journal of Fluid Mechanics</i> , 2007 , 576, 297-323 | 3.7 | 37 |
| 40 | Turbulent transport and entrainment in jets and plumes: A DNS study. <i>Physical Review Fluids</i> , 2016 , 1, | 2.8 | 35 |
| 39 | The rhythm of fountains: the length and time scales of rise height fluctuations at low and high Froude numbers. <i>Journal of Fluid Mechanics</i> , 2013 , 728, 91-119 | 3.7 | 31 |
| 38 | Emptying boxes classifying transient natural ventilation flows. <i>Journal of Fluid Mechanics</i> , 2010 , 646, 137-168 | 3.7 | 30 |
| 37 | The ventilated filling box containing a vertically distributed source of buoyancy. <i>Journal of Fluid Mechanics</i> , 2010 , 646, 39-58 | 3.7 | 28 |
| 36 | Universal solutions for Boussinesq and non-Boussinesq plumes. <i>Journal of Fluid Mechanics</i> , 2010 , 644, 165-192 | 3.7 | 26 |
| 35 | Characterising line fountains. <i>Journal of Fluid Mechanics</i> , 2009 , 623, 317-327 | 3.7 | 22 |

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| 34 | Analytical solutions for turbulent non-Boussinesq plumes. <i>Journal of Fluid Mechanics</i> , 2005 , 538, 343 | 3.7 | 22 |
| 33 | Natural ventilation in cities: the implications of fluid mechanics. <i>Building Research and Information</i> , 2018 , 46, 809-828 | 4.3 | 22 |
| 32 | Two-dimensional planar plumes and fountains. <i>Journal of Fluid Mechanics</i> , 2014 , 750, 210-244 | 3.7 | 21 |
| 31 | Density stratified environments: the double-tank method. <i>Experiments in Fluids</i> , 2009 , 46, 453-466 | 2.5 | 17 |
| 30 | The effect of source Reynolds number on the rise height of a fountain. <i>Physics of Fluids</i> , 2015 , 27, 047101 | 4.4 | 16 |
| 29 | The unidirectional emptying box. <i>Journal of Fluid Mechanics</i> , 2010 , 660, 456-474 | 3.7 | 15 |
| 28 | Unconfined turbulent entrainment across density interfaces. <i>Journal of Fluid Mechanics</i> , 2014 , 757, 573-598 | 3.7 | 13 |
| 27 | Entrainment by turbulent fountains. <i>Journal of Fluid Mechanics</i> , 2016 , 790, 407-418 | 3.7 | 13 |
| 26 | Negatively buoyant projectiles [From weak fountains to heavy vortices. <i>Journal of Fluid Mechanics</i> , 2010 , 657, 227-237 | 3.7 | 11 |
| 25 | Scaling arguments for the fluxes in turbulent miscible fountains. <i>Journal of Fluid Mechanics</i> , 2014 , 744, 273-285 | 3.7 | 10 |
| 24 | Confined turbulent entrainment across density interfaces. <i>Journal of Fluid Mechanics</i> , 2015 , 779, 116-143 | 3.7 | 8 |
| 23 | Impinging axisymmetric turbulent fountains. <i>Physics of Fluids</i> , 2007 , 19, 117101 | 4.4 | 8 |
| 22 | Control of light gas releases in ventilated tunnels. <i>Journal of Fluid Mechanics</i> , 2019 , 872, 515-531 | 3.7 | 7 |
| 21 | Transient ventilation dynamics induced by heat sources of unequal strength. <i>Journal of Fluid Mechanics</i> , 2014 , 738, 34-64 | 3.7 | 7 |
| 20 | Laminar and turbulent radial jets. <i>Acta Mechanica</i> , 1998 , 127, 25-38 | 2.1 | 7 |
| 19 | An entrainment model for lazy turbulent plumes. <i>Journal of Fluid Mechanics</i> , 2017 , 811, 682-700 | 3.7 | 6 |
| 18 | Analytical solutions and virtual origin corrections for forced, pure and lazy turbulent plumes based on a universal entrainment function. <i>Journal of Fluid Mechanics</i> , 2020 , 893, | 3.7 | 6 |
| 17 | Forced fountains. <i>Journal of Fluid Mechanics</i> , 2016 , 802, 437-463 | 3.7 | 6 |

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| 16 | The influence of spanwise confinement on round fountains. <i>Journal of Fluid Mechanics</i> , 2018 , 845, 263-297 | 3.7 | 5 |
| 15 | Multiple Flow Regimes in Stack Ventilation of Multi-Storey Atrium Buildings. <i>International Journal of Ventilation</i> , 2013 , 12, 31-40 | 1.1 | 5 |
| 14 | Numerical Study of Thermal Plume Characteristics and Entrainment in an Enclosure with a Point Heat Source. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2009 , 3, 608-630 | 4.5 | 5 |
| 13 | Analytical solutions for flow induced by a vertically distributed turbulent plume. <i>Environmental Fluid Mechanics</i> , 2019 , 19, 801-818 | 2.2 | 4 |
| 12 | Buoyancy-driven unbalanced exchange flow through a horizontal opening. <i>Journal of Fluid Mechanics</i> , 2020 , 888, | 3.7 | 4 |
| 11 | Two-dimensional planar plumes: non-Boussinesq effects. <i>Journal of Fluid Mechanics</i> , 2014 , 750, 245-258 | 3.7 | 4 |
| 10 | On the transition from finite-volume negatively buoyant releases to continuous fountains. <i>Journal of Fluid Mechanics</i> , 2012 , 698, 168-184 | 3.7 | 4 |
| 9 | The structure of a turbulent line fountain. <i>Journal of Fluid Mechanics</i> , 2019 , 876, 680-714 | 3.7 | 2 |
| 8 | Urban Canyon Influence on Building Natural Ventilation. <i>International Journal of Ventilation</i> , 2007 , 6, 43-49 | 1.1 | 2 |
| 7 | From free jets to clinging wall jets: The influence of a horizontal boundary on a horizontally forced buoyant jet. <i>Physical Review Fluids</i> , 2017 , 2, | 2.8 | 2 |
| 6 | Turbulent jet from a slender annular slot ventilated by a self-induced flow through the open core. <i>Physical Review Fluids</i> , 2018 , 3, | 2.8 | 2 |
| 5 | Hybrid ventilation of a room: A theoretical model for the combined effects of mechanically-imposed and buoyancy-induced driving pressures. <i>Building and Environment</i> , 2020 , 169, 106546 | 6.5 | 2 |
| 4 | A phenomenological model for fountain-top entrainment. <i>Journal of Fluid Mechanics</i> , 2016 , 796, 195-210 | 3.7 | 1 |
| 3 | On the stratification and induced flow in an emptying/filling box driven by a plane vertically distributed source of buoyancy. <i>Journal of Fluid Mechanics</i> , 2021 , 912, | 3.7 | 1 |
| 2 | Capturing the needs of architects: a survey of their current information requirements for natural ventilation design. <i>International Journal of Ventilation</i> , 2018 , 17, 120-147 | 1.1 | |
| 1 | Unbalanced exchange flow and its implications for the night cooling of buildings by displacement ventilation. <i>Environmental Fluid Mechanics</i> , 2021 , 21, 561-585 | 2.2 | |