

Gary Hunt

List of Publications by Year in Descending Order

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Version: 2024-04-25

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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	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
50	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	
49	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
48	Buoyancy-driven unbalanced exchange flow through a horizontal opening. <i>Journal of Fluid Mechanics</i> , 2020 , 888,	3.7	4
47	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
46	Control of light gas releases in ventilated tunnels. <i>Journal of Fluid Mechanics</i> , 2019 , 872, 515-531	3.7	7
45	Analytical solutions for flow induced by a vertically distributed turbulent plume. <i>Environmental Fluid Mechanics</i> , 2019 , 19, 801-818	2.2	4
44	The structure of a turbulent line fountain. <i>Journal of Fluid Mechanics</i> , 2019 , 876, 680-714	3.7	2
43	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	
42	The influence of spanwise confinement on round fountains. <i>Journal of Fluid Mechanics</i> , 2018 , 845, 263-297	3.7	5
41	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
40	Natural ventilation in cities: the implications of fluid mechanics. <i>Building Research and Information</i> , 2018 , 46, 809-828	4.3	22
39	An entrainment model for lazy turbulent plumes. <i>Journal of Fluid Mechanics</i> , 2017 , 811, 682-700	3.7	6
38	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
37	Turbulent transport and entrainment in jets and plumes: A DNS study. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	35
36	Forced fountains. <i>Journal of Fluid Mechanics</i> , 2016 , 802, 437-463	3.7	6
35	Entrainment by turbulent fountains. <i>Journal of Fluid Mechanics</i> , 2016 , 790, 407-418	3.7	13

34	A phenomenological model for fountain-top entrainment. <i>Journal of Fluid Mechanics</i> , 2016 , 796, 195-210	3.7	1
33	The effect of source Reynolds number on the rise height of a fountain. <i>Physics of Fluids</i> , 2015 , 27, 047101	4.4	16
32	Dynamical variability of axisymmetric buoyant plumes. <i>Journal of Fluid Mechanics</i> , 2015 , 765, 576-611	3.7	42
31	Confined turbulent entrainment across density interfaces. <i>Journal of Fluid Mechanics</i> , 2015 , 779, 116-143	3.7	8
30	Transient ventilation dynamics induced by heat sources of unequal strength. <i>Journal of Fluid Mechanics</i> , 2014 , 738, 34-64	3.7	7
29	Two-dimensional planar plumes and fountains. <i>Journal of Fluid Mechanics</i> , 2014 , 750, 210-244	3.7	21
28	Two-dimensional planar plumes: non-Boussinesq effects. <i>Journal of Fluid Mechanics</i> , 2014 , 750, 245-258	3.7	4
27	Scaling arguments for the fluxes in turbulent miscible fountains. <i>Journal of Fluid Mechanics</i> , 2014 , 744, 273-285	3.7	10
26	Unconfined turbulent entrainment across density interfaces. <i>Journal of Fluid Mechanics</i> , 2014 , 757, 573-598	3.7	13
25	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
24	Multiple Flow Regimes in Stack Ventilation of Multi-Storey Atrium Buildings. <i>International Journal of Ventilation</i> , 2013 , 12, 31-40	1.1	5
23	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
22	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
21	Classical plume theory: 1937-2010 and beyond. <i>IMA Journal of Applied Mathematics</i> , 2011 , 76, 424-448	1	66
20	The unidirectional emptying box. <i>Journal of Fluid Mechanics</i> , 2010 , 660, 456-474	3.7	15
19	Universal solutions for Boussinesq and non-Boussinesq plumes. <i>Journal of Fluid Mechanics</i> , 2010 , 644, 165-192	3.7	26
18	The ventilated filling box containing a vertically distributed source of buoyancy. <i>Journal of Fluid Mechanics</i> , 2010 , 646, 39-58	3.7	28
17	Emptying boxes classifying transient natural ventilation flows. <i>Journal of Fluid Mechanics</i> , 2010 , 646, 137-168	3.7	30

16	Negatively buoyant projectiles [from weak fountains to heavy vortices. <i>Journal of Fluid Mechanics</i> , 2010 , 657, 227-237	3.7	11
15	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
14	Density stratified environments: the double-tank method. <i>Experiments in Fluids</i> , 2009 , 46, 453-466	2.5	17
13	Characterising line fountains. <i>Journal of Fluid Mechanics</i> , 2009 , 623, 317-327	3.7	22
12	Overturning in a filling box. <i>Journal of Fluid Mechanics</i> , 2007 , 576, 297-323	3.7	37
11	Impinging axisymmetric turbulent fountains. <i>Physics of Fluids</i> , 2007 , 19, 117101	4.4	8
10	Urban Canyon Influence on Building Natural Ventilation. <i>International Journal of Ventilation</i> , 2007 , 6, 43-49	1.1	2
9	Weak fountains. <i>Journal of Fluid Mechanics</i> , 2006 , 558, 319	3.7	83
8	Analytical solutions for turbulent non-Boussinesq plumes. <i>Journal of Fluid Mechanics</i> , 2005 , 538, 343	3.7	22
7	Lazy plumes. <i>Journal of Fluid Mechanics</i> , 2005 , 533,	3.7	84
6	Displacement and mixing ventilation driven by opposing wind and buoyancy. <i>Journal of Fluid Mechanics</i> , 2005 , 527, 27-55	3.7	52
5	Time-dependent flows in an emptying filling box. <i>Journal of Fluid Mechanics</i> , 2004 , 520, 135-156	3.7	76
4	CFD Modelling of Natural Ventilation: Combined Wind and Buoyancy Forces. <i>International Journal of Ventilation</i> , 2003 , 1, 169-179	1.1	50
3	Virtual origin correction for lazy turbulent plumes. <i>Journal of Fluid Mechanics</i> , 2001 , 435, 377-396	3.7	163
2	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
1	Laminar and turbulent radial jets. <i>Acta Mechanica</i> , 1998 , 127, 25-38	2.1	7