Gary Hunt

List of Publications by Year in descending order

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53 papers	1,560 citations	361296 20 h-index	315616 38 g-index
53 all docs	53 docs citations	53 times ranked	648 citing authors

#	Article	IF	Citations
1	What is the entrainment coefficient of a pure turbulent line plume?. Journal of Fluid Mechanics, 2022, 934, .	1.4	8
2	Two-dimensional buoyant plumes in a uniform co-flow. Journal of Fluid Mechanics, 2022, 932, .	1.4	1
3	On the stratification and induced flow in an emptyingâ€“filling box driven by a plane vertically distributed source of buoyancy. Journal of Fluid Mechanics, 2021, 912, .	1.4	7
4	Unbalanced exchange flow and its implications for the night cooling of buildings by displacement ventilation. Environmental Fluid Mechanics, 2021, 21, 561-585.	0.7	0
5	Hybrid ventilation of a room: A theoretical model for the combined effects of mechanically-imposed and buoyancy-induced driving pressures. Building and Environment, 2020, 169, 106546.	3.0	4
6	Analytical solutions and virtual origin corrections for forced, pure and lazy turbulent plumes based on a universal entrainment function. Journal of Fluid Mechanics, 2020, 893, .	1.4	21
7	Buoyancy-driven unbalanced exchange flow through a horizontal opening. Journal of Fluid Mechanics, 2020, 888, .	1.4	6
8	The structure of a turbulent line fountain. Journal of Fluid Mechanics, 2019, 876, 680-714.	1.4	2
9	Control of light gas releases in ventilated tunnels. Journal of Fluid Mechanics, 2019, 872, 515-531.	1.4	10
10	Analytical solutions for flow induced by a vertically distributed turbulent plume. Environmental Fluid Mechanics, 2019, 19, 801-818.	0.7	4
11	Capturing the needs of architects: a survey of their current information requirements for natural ventilation design. International Journal of Ventilation, 2018, 17, 120-147.	0.2	0
12	The influence of spanwise confinement on roundÂfountains. Journal of Fluid Mechanics, 2018, 845, 263-292.	1.4	7
13	Natural ventilation in cities: the implications of fluid mechanics. Building Research and Information, 2018, 46, 809-828.	2.0	32
14	Turbulent jet from a slender annular slot ventilated by a self-induced flow through the open core. Physical Review Fluids, 2018, 3, .	1.0	3
15	An entrainment model for lazy turbulent plumes. Journal of Fluid Mechanics, 2017, 811, 682-700.	1.4	11
16	From free jets to clinging wall jets: The influence of a horizontal boundary on a horizontally forced buoyant jet. Physical Review Fluids, 2017, 2, .	1.0	7
17	Forced fountains. Journal of Fluid Mechanics, 2016, 802, 437-463.	1.4	12
18	Entrainment by turbulent fountains. Journal of Fluid Mechanics, 2016, 790, 407-418.	1.4	19

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19	A phenomenological model for fountain-top entrainment. Journal of Fluid Mechanics, 2016, 796, 195-210.	1.4	4
20	Turbulent transport and entrainment in jets and plumes: A DNS study. Physical Review Fluids, 2016, 1, .	1.0	59
21	Dynamical variability of axisymmetric buoyant plumes. Journal of Fluid Mechanics, 2015, 765, 576-611.	1.4	59
22	Confined turbulent entrainment across densityÂinterfaces. Journal of Fluid Mechanics, 2015, 779, 116-143.	1.4	10
23	The effect of source Reynolds number on the rise height of a fountain. Physics of Fluids, 2015, 27, .	1.6	19
24	Unconfined turbulent entrainment across density interfaces. Journal of Fluid Mechanics, 2014, 757, 573-598.	1.4	20
25	Transient ventilation dynamics induced by heat sources of unequal strength. Journal of Fluid Mechanics, 2014, 738, 34-64.	1.4	10
26	Two-dimensional planar plumes and fountains. Journal of Fluid Mechanics, 2014, 750, 210-244.	1.4	28
27	Two-dimensional planar plumes: non-Boussinesq effects. Journal of Fluid Mechanics, 2014, 750, 245-258.	1.4	5
28	Scaling arguments for the fluxes in turbulent miscible fountains. Journal of Fluid Mechanics, 2014, 744, 273-285.	1.4	11
29	The rhythm of fountains: the length and time scales of rise height fluctuations at low and high Froude numbers. Journal of Fluid Mechanics, 2013, 728, 91-119.	1.4	39
30	Multiple Flow Regimes in Stack Ventilation of Multi-Storey Atrium Buildings. International Journal of Ventilation, 2013, 12, 31-40.	0.2	5
31	The rise heights of low- and high-Froude-number turbulent axisymmetric fountains. Journal of Fluid Mechanics, 2012, 691, 392-416.	1.4	58
32	On the transition from finite-volume negatively buoyant releases to continuous fountains. Journal of Fluid Mechanics, 2012, 698, 168-184.	1.4	4
33	Classical plume theory: 1937-2010 and beyond. IMA Journal of Applied Mathematics, 2011, 76, 424-448.	0.8	82
34	The unidirectional emptying box. Journal of Fluid Mechanics, 2010, 660, 456-474.	1.4	16
35	Universal solutions for Boussinesq and non-Boussinesq plumes. Journal of Fluid Mechanics, 2010, 644, 165-192.	1.4	37
36	The ventilated filling box containing a vertically distributed source of buoyancy. Journal of Fluid Mechanics, 2010, 646, 39-58.	1.4	37

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37	Emptying boxes â€“ classifying transient natural ventilation flows. Journal of Fluid Mechanics, 2010, 646, 137-168.	1.4	33
38	Negatively buoyant projectiles â€“ from weak fountains to heavy vortices. Journal of Fluid Mechanics, 2010, 657, 227-237.	1.4	13
39	Numerical Study of Thermal Plume Characteristics and Entrainment in an Enclosure with a Point Heat Source. Engineering Applications of Computational Fluid Mechanics, 2009, 3, 608-630.	1.5	6
40	Density stratified environments: the double-tank method. Experiments in Fluids, 2009, 46, 453-466.	1.1	22
41	Characterising line fountains. Journal of Fluid Mechanics, 2009, 623, 317-327.	1.4	24
42	Impinging axisymmetric turbulent fountains. Physics of Fluids, 2007, 19, .	1.6	9
43	Urban Canyon Influence on Building Natural Ventilation. International Journal of Ventilation, 2007, 6, 43-49.	0.2	2
44	Overturning in a filling box. Journal of Fluid Mechanics, 2007, 576, 297-323.	1.4	47
45	Weak fountains. Journal of Fluid Mechanics, 2006, 558, 319.	1.4	94
46	Analytical solutions for turbulent non-Boussinesq plumes. Journal of Fluid Mechanics, 2005, 538, 343.	1.4	32
47	Lazy plumes. Journal of Fluid Mechanics, 2005, 533, .	1.4	109
48	Displacement and mixing ventilation driven by opposing wind and buoyancy. Journal of Fluid Mechanics, 2005, 527, 27-55.	1.4	66
49	Time-dependent flows in an emptying filling box. Journal of Fluid Mechanics, 2004, 520, 135-156.	1.4	88
50	CFD Modelling of Natural Ventilation: Combined Wind and Buoyancy Forces. International Journal of Ventilation, 2003, 1, 169-179.	0.2	55
51	Virtual origin correction for lazy turbulent plumes. Journal of Fluid Mechanics, 2001, 435, 377-396.	1.4	193
52	Steady-state flows in an enclosure ventilated by buoyancy forces assisted by wind. Journal of Fluid Mechanics, 2001, 426, 355-386.	1.4	103
53	Laminar and turbulent radial jets. Acta Mechanica, 1998, 127, 25-38.	1.1	7