

Gary Hunt

List of Publications by Year in descending order

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53
papers

1,560
citations

361045

20
h-index

315357

38
g-index

53
all docs

53
docs citations

53
times ranked

648
citing authors

#	ARTICLE	IF	CITATIONS
1	Virtual origin correction for lazy turbulent plumes. <i>Journal of Fluid Mechanics</i> , 2001, 435, 377-396.	1.4	193
2	Lazy plumes. <i>Journal of Fluid Mechanics</i> , 2005, 533, .	1.4	109
3	Steady-state flows in an enclosure ventilated by buoyancy forces assisted by wind. <i>Journal of Fluid Mechanics</i> , 2001, 426, 355-386.	1.4	103
4	Weak fountains. <i>Journal of Fluid Mechanics</i> , 2006, 558, 319.	1.4	94
5	Time-dependent flows in an emptying filling box. <i>Journal of Fluid Mechanics</i> , 2004, 520, 135-156.	1.4	88
6	Classical plume theory: 1937-2010 and beyond. <i>IMA Journal of Applied Mathematics</i> , 2011, 76, 424-448.	0.8	82
7	Displacement and mixing ventilation driven by opposing wind and buoyancy. <i>Journal of Fluid Mechanics</i> , 2005, 527, 27-55.	1.4	66
8	Dynamical variability of axisymmetric buoyant plumes. <i>Journal of Fluid Mechanics</i> , 2015, 765, 576-611.	1.4	59
9	Turbulent transport and entrainment in jets and plumes: A DNS study. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	59
10	The rise heights of low- and high-Froude-number turbulent axisymmetric fountains. <i>Journal of Fluid Mechanics</i> , 2012, 691, 392-416.	1.4	58
11	CFD Modelling of Natural Ventilation: Combined Wind and Buoyancy Forces. <i>International Journal of Ventilation</i> , 2003, 1, 169-179.	0.2	55
12	Overturning in a filling box. <i>Journal of Fluid Mechanics</i> , 2007, 576, 297-323.	1.4	47
13	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.	1.4	39
14	Universal solutions for Boussinesq and non-Boussinesq plumes. <i>Journal of Fluid Mechanics</i> , 2010, 644, 165-192.	1.4	37
15	The ventilated filling box containing a vertically distributed source of buoyancy. <i>Journal of Fluid Mechanics</i> , 2010, 646, 39-58.	1.4	37
16	Emptying boxes “classifying transient natural ventilation flows. <i>Journal of Fluid Mechanics</i> , 2010, 646, 137-168.	1.4	33
17	Analytical solutions for turbulent non-Boussinesq plumes. <i>Journal of Fluid Mechanics</i> , 2005, 538, 343.	1.4	32
18	Natural ventilation in cities: the implications of fluid mechanics. <i>Building Research and Information</i> , 2018, 46, 809-828.	2.0	32

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19	Two-dimensional planar plumes and fountains. <i>Journal of Fluid Mechanics</i> , 2014, 750, 210-244.	1.4	28
20	Characterising line fountains. <i>Journal of Fluid Mechanics</i> , 2009, 623, 317-327.	1.4	24
21	Density stratified environments: the double-tank method. <i>Experiments in Fluids</i> , 2009, 46, 453-466.	1.1	22
22	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, .	1.4	21
23	Unconfined turbulent entrainment across density interfaces. <i>Journal of Fluid Mechanics</i> , 2014, 757, 573-598.	1.4	20
24	The effect of source Reynolds number on the rise height of a fountain. <i>Physics of Fluids</i> , 2015, 27, .	1.6	19
25	Entrainment by turbulent fountains. <i>Journal of Fluid Mechanics</i> , 2016, 790, 407-418.	1.4	19
26	The unidirectional emptying box. <i>Journal of Fluid Mechanics</i> , 2010, 660, 456-474.	1.4	16
27	Negatively buoyant projectiles “ from weak fountains to heavy vortices. <i>Journal of Fluid Mechanics</i> , 2010, 657, 227-237.	1.4	13
28	Forced fountains. <i>Journal of Fluid Mechanics</i> , 2016, 802, 437-463.	1.4	12
29	Scaling arguments for the fluxes in turbulent miscible fountains. <i>Journal of Fluid Mechanics</i> , 2014, 744, 273-285.	1.4	11
30	An entrainment model for lazy turbulent plumes. <i>Journal of Fluid Mechanics</i> , 2017, 811, 682-700.	1.4	11
31	Transient ventilation dynamics induced by heat sources of unequal strength. <i>Journal of Fluid Mechanics</i> , 2014, 738, 34-64.	1.4	10
32	Confined turbulent entrainment across density interfaces. <i>Journal of Fluid Mechanics</i> , 2015, 779, 116-143.	1.4	10
33	Control of light gas releases in ventilated tunnels. <i>Journal of Fluid Mechanics</i> , 2019, 872, 515-531.	1.4	10
34	Impinging axisymmetric turbulent fountains. <i>Physics of Fluids</i> , 2007, 19, .	1.6	9
35	What is the entrainment coefficient of a pure turbulent line plume?. <i>Journal of Fluid Mechanics</i> , 2022, 934, .	1.4	8
36	Laminar and turbulent radial jets. <i>Acta Mechanica</i> , 1998, 127, 25-38.	1.1	7

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37	The influence of spanwise confinement on round fountains. <i>Journal of Fluid Mechanics</i> , 2018, 845, 263-292.	1.4	7
38	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, .	1.4	7
39	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, .	1.0	7
40	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.	1.5	6
41	Buoyancy-driven unbalanced exchange flow through a horizontal opening. <i>Journal of Fluid Mechanics</i> , 2020, 888, .	1.4	6
42	Multiple Flow Regimes in Stack Ventilation of Multi-Storey Atrium Buildings. <i>International Journal of Ventilation</i> , 2013, 12, 31-40.	0.2	5
43	Two-dimensional planar plumes: non-Boussinesq effects. <i>Journal of Fluid Mechanics</i> , 2014, 750, 245-258.	1.4	5
44	On the transition from finite-volume negatively buoyant releases to continuous fountains. <i>Journal of Fluid Mechanics</i> , 2012, 698, 168-184.	1.4	4
45	A phenomenological model for fountain-top entrainment. <i>Journal of Fluid Mechanics</i> , 2016, 796, 195-210.	1.4	4
46	Analytical solutions for flow induced by a vertically distributed turbulent plume. <i>Environmental Fluid Mechanics</i> , 2019, 19, 801-818.	0.7	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.	3.0	4
48	Turbulent jet from a slender annular slot ventilated by a self-induced flow through the open core. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	3
49	Urban Canyon Influence on Building Natural Ventilation. <i>International Journal of Ventilation</i> , 2007, 6, 43-49.	0.2	2
50	The structure of a turbulent line fountain. <i>Journal of Fluid Mechanics</i> , 2019, 876, 680-714.	1.4	2
51	Two-dimensional buoyant plumes in a uniform co-flow. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	1.4	1
52	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.	0.2	0
53	Unbalanced exchange flow and its implications for the night cooling of buildings by displacement ventilation. <i>Environmental Fluid Mechanics</i> , 2021, 21, 561-585.	0.7	0