

Paul F Linden

List of Publications by Year in Descending Order

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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.

141
papers

6,029
citations

39
h-index

75
g-index

151
ext. papers

6,960
ext. citations

4.6
avg, IF

6.06
L-index

#	Paper	IF	Citations
141	Experimental properties of continuously forced, shear-driven, stratified turbulence. Part 1. Mean flows, self-organisation, turbulent fractions. <i>Journal of Fluid Mechanics</i> , 2022 , 937,	3.7	1
140	Vertically distributed wall sources of buoyancy. Part 1. Unconfined. <i>Journal of Fluid Mechanics</i> , 2021 , 907,	3.7	2
139	The ventilation of buildings and other mitigating measures for COVID-19: a focus on wintertime.. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477, 20200855	2.4	26
138	Seasonal variation in airborne infection risk in schools due to changes in ventilation inferred from monitored carbon dioxide. <i>Indoor Air</i> , 2021 , 31, 1154-1163	5.4	18
137	Effects of background rotation on the dynamics of multiphase plumes. <i>Journal of Fluid Mechanics</i> , 2021 , 915,	3.7	1
136	A metamorphosis of three-dimensional wave structure in transitional and turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2021 , 914,	3.7	4
135	Numerical study of COVID-19 spatial-temporal spreading in London. <i>Physics of Fluids</i> , 2021 , 33, 046605	4.4	9
134	Contaminant transport by human passage through an air curtain separating two sections of a corridor: Part I Uniform ambient temperature. <i>Energy and Buildings</i> , 2021 , 236, 110818	7	2
133	Assessment and mitigation of personal exposure to particulate air pollution in cities: An exploratory study. <i>Sustainable Cities and Society</i> , 2021 , 72, 103052	10.1	5
132	Natural ventilation in London: Towards energy-efficient and healthy buildings. <i>Building and Environment</i> , 2021 , 195, 107722	6.5	9
131	A full-scale field study for evaluation of simple analytical models of cross ventilation and single-sided ventilation. <i>Building and Environment</i> , 2021 , 187, 107386	6.5	6
130	Identifying Efficient Transport Pathways in Early-Wood Timber: Insights from 3D X-ray CT Imaging of Softwood in the Presence of Flow. <i>Transport in Porous Media</i> , 2021 , 136, 813-830	3.1	
129	Data Assimilation in the Latent Space of a Convolutional Autoencoder. <i>Lecture Notes in Computer Science</i> , 2021 , 373-386	0.9	3
128	Confronting Grand Challenges in environmental fluid mechanics. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	8
127	Transpiration through hydrogels. <i>Journal of Fluid Mechanics</i> , 2021 , 925,	3.7	1
126	Plumes in rotating fluid and their transformation into tornados. <i>Journal of Fluid Mechanics</i> , 2021 , 924,	3.7	1
125	Air Flow Experiments on a Train Carriage Towards Understanding the Risk of Airborne Transmission. <i>Atmosphere</i> , 2021 , 12, 1267	2.7	4

124	The effect of double diffusion on the dynamics of horizontal turbulent thermohaline jets. <i>Journal of Fluid Mechanics</i> , 2020 , 905,	3.7	3
123	The circular capillary jump. <i>Journal of Fluid Mechanics</i> , 2020 , 896,	3.7	3
122	Structure evolution at early stage of boundary-layer transition: simulation and experiment. <i>Journal of Fluid Mechanics</i> , 2020 , 890,	3.7	14
121	A comparison of entrainment in turbulent line plumes adjacent to and distant from a vertical wall. <i>Journal of Fluid Mechanics</i> , 2020 , 882,	3.7	6
120	The effect of double diffusion on entrainment in turbulent plumes. <i>Journal of Fluid Mechanics</i> , 2020 , 884,	3.7	6
119	Effects of ventilation on the indoor spread of COVID-19. <i>Journal of Fluid Mechanics</i> , 2020 , 903, F1	3.7	127
118	Displacement ventilation: a viable ventilation strategy for makeshift hospitals and public buildings to contain COVID-19 and other airborne diseases. <i>Royal Society Open Science</i> , 2020 , 7, 200680	3.3	15
117	Experimental study on low-speed streaks in a turbulent boundary layer at low Reynolds number. <i>Journal of Fluid Mechanics</i> , 2020 , 903,	3.7	9
116	The effect of an indoor-outdoor temperature difference on transient cross-ventilation. <i>Building and Environment</i> , 2020 , 168, 106447	6.5	8
115	Buoyancy-driven exchange flows in inclined ducts. <i>Journal of Fluid Mechanics</i> , 2020 , 893,	3.7	3
114	Testing the Assumptions Underlying Ocean Mixing Methodologies Using Direct Numerical Simulations. <i>Journal of Physical Oceanography</i> , 2019 , 49, 2761-2779	2.4	9
113	Regime transitions and energetics of sustained stratified shear flows. <i>Journal of Fluid Mechanics</i> , 2019 , 875, 657-698	3.7	4
112	The transport of liquids in softwood: timber as a model porous medium. <i>Scientific Reports</i> , 2019 , 9, 20282.9	2.9	3
111	Experimental exploration of fluid-driven cracks in brittle hydrogels. <i>Journal of Fluid Mechanics</i> , 2018 , 844, 435-458	3.7	8
110	Detrainment of plumes from vertically distributed sources. <i>Environmental Fluid Mechanics</i> , 2018 , 18, 3-25	2.2	7
109	On the origin of the circular hydraulic jump in a thin liquid film. <i>Journal of Fluid Mechanics</i> , 2018 , 851,	3.7	30
108	Flow of buoyant granular materials along a free surface. <i>Journal of Fluid Mechanics</i> , 2018 , 848, 312-339	3.7	2
107	The structure and origin of confined Holmboe waves. <i>Journal of Fluid Mechanics</i> , 2018 , 848, 508-544	3.7	16

106	Symmetric coalescence of two hydraulic fractures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10228-10232	11.5	1
105	Cell geometry across the ring structure of Sitka spruce. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	7
104	Natural ventilation in cities: the implications of fluid mechanics. <i>Building Research and Information</i> , 2018 , 46, 809-828	4.3	22
103	Characteristics of colliding sea breeze gravity current fronts: a laboratory study. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017 , 143, 1434-1441	6.4	10
102	Diapycnal mixing in layered stratified plane Couette flow quantified in a tracer-based coordinate. <i>Journal of Fluid Mechanics</i> , 2017 , 823, 198-229	3.7	17
101	Conditional sampling of a high Péclet number turbulent plume and the implications for entrainment. <i>Journal of Fluid Mechanics</i> , 2017 , 823, 26-56	3.7	11
100	Hydrogel as a Medium for Fluid-Driven Fracture Study. <i>Experimental Mechanics</i> , 2017 , 57, 1483-1493	2.6	3
99	Anticyclonic precession of a plume in a rotating environment. <i>Geophysical Research Letters</i> , 2017 , 44, 9400-9407	4.9	9
98	Predicting the pore-filling ratio in lumen-impregnated wood. <i>Wood Science and Technology</i> , 2017 , 51, 1277-1290	2.5	14
97	The wood from the trees: The use of timber in construction. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 68, 333-359	16.2	424
96	Impact of aperture separation on wind-driven single-sided natural ventilation. <i>Building and Environment</i> , 2016 , 108, 122-134	6.5	28
95	The Fluxes and Behaviour of Plumes Inferred from Measurements of Coherent Structures within Images of the Bulk Flow. <i>Atmosphere - Ocean</i> , 2016 , 54, 403-417	1.5	8
94	The Modular Aerial Sensing System. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016 , 33, 1169-1184		25
93	Questioning the Mpemba effect: hot water does not cool more quickly than cold. <i>Scientific Reports</i> , 2016 , 6, 37665	4.9	26
92	Mixing efficiency in run-down gravity currents. <i>Journal of Fluid Mechanics</i> , 2016 , 809, 691-704	3.7	9
91	The effects of an opposing buoyancy force on the performance of an air curtain in the doorway of a building. <i>Energy and Buildings</i> , 2015 , 96, 20-29	7	19
90	Gravity current propagation up a valley. <i>Journal of Fluid Mechanics</i> , 2015 , 762, 417-434	3.7	14
89	Intrusion-generated waves in a linearly stratified fluid. <i>Journal of Fluid Mechanics</i> , 2014 , 752, 282-295	3.7	7

88	Stratified shear flow: experiments in an inclined duct. <i>Journal of Fluid Mechanics</i> , 2014 , 753, 242-253	3.7	14
87	Entrainment in two coalescing axisymmetric turbulent plumes. <i>Journal of Fluid Mechanics</i> , 2014 , 752,	3.7	20
86	The effectiveness of an air curtain in the doorway of a ventilated building. <i>Journal of Fluid Mechanics</i> , 2014 , 756, 130-164	3.7	14
85	Validity of thermally-driven small-scale ventilated filling box models. <i>Experiments in Fluids</i> , 2013 , 54, 1	2.5	9
84	The efficiency of pulsed-jet propulsion. <i>Journal of Fluid Mechanics</i> , 2011 , 668, 1-4	3.7	7
83	Geophysical and Environmental Fluid Dynamics. <i>Lecture Notes Series, Institute for Mathematical Sciences</i> , 2011 , 29-62	0.1	
82	Intrusive gravity currents between two stably stratified fluids. <i>Journal of Fluid Mechanics</i> , 2010 , 647, 53-69	3.7	17
81	Laboratory modelling of the effects of temporal changes of estuarine-fresh-water discharge rates on the propagation speed of oceanographic coastal currents. <i>Journal of Fluid Mechanics</i> , 2010 , 664, 337-347	3.7	0
80	Particle transport in low-energy ventilation systems. Part 1: theory of steady states. <i>Indoor Air</i> , 2009 , 19, 122-9	5.4	11
79	The front speed of intrusions into a continuously stratified medium. <i>Journal of Fluid Mechanics</i> , 2008 , 594, 369-377	3.7	25
78	Buoyancy-driven flow between two rooms coupled by two openings at different levels. <i>Journal of Fluid Mechanics</i> , 2008 , 594, 425-443	3.7	5
77	Contaminants in ventilated filling boxes. <i>Journal of Fluid Mechanics</i> , 2007 , 591, 97-116	3.7	29
76	Rotating gravity currents: small-scale and large-scale laboratory experiments and a geostrophic model. <i>Journal of Fluid Mechanics</i> , 2007 , 578, 35-65	3.7	19
75	Lock-exchange flows in sloping channels. <i>Journal of Fluid Mechanics</i> , 2007 , 577, 53-77	3.7	53
74	Local implications for self-similar turbulent plume models. <i>Journal of Fluid Mechanics</i> , 2007 , 575, 257-265	3.7	10
73	Intrusive gravity currents. <i>Journal of Fluid Mechanics</i> , 2006 , 568, 193	3.7	30
72	Axisymmetric gravity currents on a cone. <i>Journal of Fluid Mechanics</i> , 2006 , 565, 227	3.7	17
71	The fluid dynamics of an underfloor air distribution system. <i>Journal of Fluid Mechanics</i> , 2006 , 554, 323	3.7	34

70	The front speed of intrusive gravity currents. <i>Journal of Fluid Mechanics</i> , 2006 , 552, 1	3.7	31
69	Colliding turbulent plumes. <i>Journal of Fluid Mechanics</i> , 2006 , 550, 85	3.7	6
68	Interacting Turbulent Plumes in a Naturally Ventilated Enclosure. <i>International Journal of Ventilation</i> , 2006 , 4, 301-310	1.1	13
67	The entrainment due to a turbulent fountain at a density interface. <i>Journal of Fluid Mechanics</i> , 2005 , 542, 25	3.7	37
66	The non-Boussinesq lock-exchange problem. Part 1. Theory and experiments. <i>Journal of Fluid Mechanics</i> , 2005 , 537, 101	3.7	85
65	The front condition for gravity currents. <i>Journal of Fluid Mechanics</i> , 2005 , 536, 49-78	3.7	106
64	Displacement and mixing ventilation driven by opposing wind and buoyancy. <i>Journal of Fluid Mechanics</i> , 2005 , 527, 27-55	3.7	52
63	'Optimal' vortex rings and aquatic propulsion mechanisms. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004 , 271, 647-53	4.4	69
62	Gravity currents produced by lock exchange. <i>Journal of Fluid Mechanics</i> , 2004 , 521, 1-34	3.7	275
61	Lock-release inertial gravity currents over a thick porous layer. <i>Journal of Fluid Mechanics</i> , 2004 , 503, 299-319	3.7	20
60	Coalescing axisymmetric turbulent plumes. <i>Journal of Fluid Mechanics</i> , 2004 , 502, 41-63	3.7	71
59	The drag on a vertically moving grid of bars in a linearly stratified fluid. <i>Experiments in Fluids</i> , 2003 , 34, 678-686	2.5	12
58	Buoyancy-driven ventilation between two chambers. <i>Journal of Fluid Mechanics</i> , 2002 , 463, 293-312	3.7	34
57	Eigenmode resonance in a two-layer stratification. <i>Journal of Fluid Mechanics</i> , 2002 , 460, 223-240	3.7	1
56	Gravity currents in rotating channels. Part 1. Steady-state theory. <i>Journal of Fluid Mechanics</i> , 2002 , 457, 295-324	3.7	12
55	A laboratory study of the velocity structure in an intrusive gravity current. <i>Journal of Fluid Mechanics</i> , 2002 , 456, 33-48	3.7	52
54	A study of three-dimensional gravity currents on a uniform slope. <i>Journal of Fluid Mechanics</i> , 2002 , 453, 239-261	3.7	43
53	Stability of a buoyancy-driven coastal current at the shelf break. <i>Journal of Fluid Mechanics</i> , 2002 , 452, 97-121	3.7	21

52	Internal wave excitation by a vertically oscillating elliptical cylinder. <i>Physics of Fluids</i> , 2002 , 14, 721-731	4.4	41
51	Sensitivity of horizontal flows to forcing geometry. <i>Journal of Fluid Mechanics</i> , 2001 , 432, 419-441	3.7	1
50	The formation of optimal vortex rings, and the efficiency of propulsion devices. <i>Journal of Fluid Mechanics</i> , 2001 , 427, 61-72	3.7	112
49	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
48	Self-similarity and internal structure of turbulence induced by Rayleigh-Taylor instability. <i>Journal of Fluid Mechanics</i> , 1999 , 399, 1-48	3.7	180
47	Saline and particle-driven interfacial intrusions. <i>Journal of Fluid Mechanics</i> , 1999 , 389, 303-334	3.7	31
46	Visualization and measurement of internal waves by synthetic schlieren—Part 1. Vertically oscillating cylinder. <i>Journal of Fluid Mechanics</i> , 1999 , 390, 93-126	3.7	127
45	THE FLUID MECHANICS OF NATURAL VENTILATION. <i>Annual Review of Fluid Mechanics</i> , 1999 , 31, 201-238	3.2	444
44	Experimental investigations of quasi-two-dimensional vortices in a stratified fluid with source-sink forcing. <i>Journal of Fluid Mechanics</i> , 1999 , 383, 249-283	3.7	9
43	Internal wave excitation from stratified flow over a thin barrier. <i>Journal of Fluid Mechanics</i> , 1998 , 377, 223-252	3.7	59
42	Gravity currents over porous substrates. <i>Journal of Fluid Mechanics</i> , 1998 , 366, 239-258	3.7	25
41	Mixing processes in a highly stratified river. <i>Coastal and Estuarine Studies</i> , 1998 , 389-400		18
40	Report on Turbulence and Mixing in Geophysical Flows II. <i>Flow, Turbulence and Combustion</i> , 1997 , 59, 89-110		
39	Similarity considerations for non-Boussinesq plumes in an unstratified environment. <i>Journal of Fluid Mechanics</i> , 1996 , 318, 237	3.7	80
38	Natural ventilation of an enclosure containing two buoyancy sources. <i>Journal of Fluid Mechanics</i> , 1996 , 311, 153	3.7	59
37	Multiple sources of buoyancy in a naturally ventilated enclosure. <i>Journal of Fluid Mechanics</i> , 1996 , 311, 177	3.7	61
36	A laboratory simulation of mixing across tidal fronts. <i>Journal of Fluid Mechanics</i> , 1996 , 309, 321-344	3.7	8
35	Source-sink turbulence in a rotating stratified fluid. <i>Journal of Fluid Mechanics</i> , 1995 , 298, 81-112	3.7	27

34	Molecular mixing in Rayleigh–Taylor instability. <i>Journal of Fluid Mechanics</i> , 1994 , 265, 97-124	3.7	112
33	Source-sink turbulence in a stratified fluid. <i>Journal of Fluid Mechanics</i> , 1994 , 261, 273-303	3.7	19
32	Forced, angled plumes. <i>Journal of Hazardous Materials</i> , 1993 , 33, 75-99	12.8	43
31	Spin-up of a two-layer fluid in a rotating cylinder. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1992 , 66, 47-66	1.4	1
30	Molecular mixing in Rayleigh–Taylor instability. Part I: Global mixing. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991 , 3, 1269-1277		53
29	Free-surface effects on the spin-up of fluid in a rotating cylinder. <i>Journal of Fluid Mechanics</i> , 1991 , 232, 439	3.7	8
28	Emptying filling boxes: the fluid mechanics of natural ventilation. <i>Journal of Fluid Mechanics</i> , 1990 , 212, 309	3.7	303
27	The effect of background rotation on fluid motions: a report on Euromech 245. <i>Journal of Fluid Mechanics</i> , 1990 , 211, 417-435	3.7	25
26	Frontogenesis in a fluid with horizontal density gradients. <i>Journal of Fluid Mechanics</i> , 1989 , 202, 1-16	3.7	65
25	Gravity-driven flows in a turbulent fluid. <i>Journal of Fluid Mechanics</i> , 1986 , 172, 481	3.7	100
24	Intermittent baroclinic instability and fluctuations in geophysical circulations. <i>Nature</i> , 1985 , 316, 801-803	50.4	11
23	Microbursts: a hazard for aircraft. <i>Nature</i> , 1985 , 317, 601-602	50.4	15
22	Two-layer spin-up and frontogenesis. <i>Journal of Fluid Mechanics</i> , 1984 , 143, 69-94	3.7	33
21	The final stage of decay of turbulence in stably stratified fluid. <i>Journal of Fluid Mechanics</i> , 1983 , 134, 195	3.7	35
20	Topographic instability and multiple equilibria on an f-plane. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1983 , 27, 163-182	1.4	1
19	Benthic fronts and global excess radon distribution. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1983 , 25, 309-315	1.4	4
18	Laboratory experiments on fronts. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1982 , 19, 159-187	1.4	107
17	Formation of thermoclines in zero-mean-shear turbulence subjected to a stabilizing buoyancy flux. <i>Journal of Fluid Mechanics</i> , 1982 , 114, 157	3.7	39

16	Laboratory experiments on fronts. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1982 , 19, 189-206	1.4	33
15	The stability of vortices in a rotating, stratified fluid. <i>Journal of Fluid Mechanics</i> , 1981 , 105, 283	3.7	150
14	Physical oceanography of the European shelf-seas: A report on the geophysical fluid mechanics symposium of the E.G.S. (1980). <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1981 , 17, 319-329	1.4	
13	The motion of the front of a gravity current travelling down an incline. <i>Journal of Fluid Mechanics</i> , 1980 , 99, 531-543	3.7	226
12	Mixing in stratified fluids. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1979 , 13, 3-23	1.4	169
11	On heating a stable salinity gradient from below. <i>Journal of Fluid Mechanics</i> , 1979 , 95, 431	3.7	133
10	The diffusive interface in double-diffusive convection. <i>Journal of Fluid Mechanics</i> , 1978 , 87, 417	3.7	117
9	The formation of layers in a double-diffusive system with a sloping boundary. <i>Journal of Fluid Mechanics</i> , 1977 , 81, 757-773	3.7	48
8	The flow of a stratified fluid in a rotating annulus. <i>Journal of Fluid Mechanics</i> , 1977 , 79, 435-447	3.7	11
7	The deepening of a mixed layer in a stratified fluid. <i>Journal of Fluid Mechanics</i> , 1975 , 71, 385-405	3.7	137
6	Small-scale mixing in stably stratified fluids: a report on Euromech 51. <i>Journal of Fluid Mechanics</i> , 1975 , 67, 1-16	3.7	6
5	The structure of turbulent density interfaces. <i>Journal of Fluid Mechanics</i> , 1974 , 65, 45-63	3.7	80
4	Salt fingers in a steady shear flow. <i>Geophysical Fluid Dynamics</i> , 1974 , 6, 1-27		102
3	The interaction of a vortex ring with a sharp density interface: a model for turbulent entrainment. <i>Journal of Fluid Mechanics</i> , 1973 , 60, 467	3.7	137
2	Salt fingers in the presence of grid-generated turbulence. <i>Journal of Fluid Mechanics</i> , 1971 , 49, 611	3.7	44
1	Predictive and retrospective modelling of airborne infection risk using monitored carbon dioxide. <i>Indoor and Built Environment</i> , 1420326X2110435	1.8	11