Stephen Thorpe

List of Publications by Year
in descending order

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Version: 2024-02-01

47 papers	3,024 citations	201674 27 h-index	214800 47 g-index
49 all docs	49 docs citations	49 times ranked	1506 citing authors

#	Article	IF	Citations
1	Experiments on instability and turbulence in a stratified shear flow. Journal of Fluid Mechanics, 1973, 61, 731-751.	3.4	284
2	Experiments on the instability of stratified shear flows: miscible fluids. Journal of Fluid Mechanics, 1971, 46, 299-319.	3.4	264
3	A method of producing a shear flow in a stratified fluid. Journal of Fluid Mechanics, 1968, 32, 693-704.	3.4	221
4	Transitional phenomena and the development of turbulence in stratified fluids: A review. Journal of Geophysical Research, 1987, 92, 5231-5248.	3.3	190
5	Turbulence in stably stratified fluids: A review of laboratory experiments. Boundary-Layer Meteorology, 1973, 5, 95-119.	2.3	184
6	Experiments on the instability of stratified shear flows: immiscible fluids. Journal of Fluid Mechanics, 1969, 39, 25-48.	3.4	137
7	A deep intermediate nepheloid layer. Deep-sea Research Part A, Oceanographic Research Papers, 1988, 35, 1665-1671.	1.5	100
8	On the reflection of a train of finite-amplitude internal waves from a uniform slope. Journal of Fluid Mechanics, 1987, 178, 279-302.	3.4	90
9	Surface effects of bottom-generated turbulence in a shallow tidal sea. Nature, 1999, 400, 251-254.	27.8	81
10	Winter cascading of cold water in Lake Geneva. Journal of Geophysical Research, 2002, 107, 13-1.	3.3	80
11	An experimental study of critical layers. Journal of Fluid Mechanics, 1981, 103, 321.	3.4	76
12	Laboratory observations of secondary structures in kelvin-helmhoitz billows and consequences for ocean mixing. Geophysical and Astrophysical Fluid Dynamics, 1985, 34, 175-199.	1.2	63
13	On the Interactions of Internal Waves Reflecting from Slopes. Journal of Physical Oceanography, 1997, 27, 2072-2078.	1.7	59
14	Statically unstable layers produced by overturning internal gravity waves. Journal of Fluid Mechanics, 1994, 260, 333-350.	3.4	50
15	Cascading of water down the sloping sides of a deep lake in winter. Geophysical Research Letters, 2001, 28, 2093-2096.	4.0	49
16	Bubble clouds and temperature anomalies in the upper ocean. Nature, 1987, 328, 48-51.	27.8	48
17	Estimating internal waves and diapycnal mixing from conventional mooring data in a lake. Limnology and Oceanography, 1998, 43, 936-945.	3.1	43
18	On Internal Wave Groups. Journal of Physical Oceanography, 1999, 29, 1085-1095.	1.7	43

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19	On the Breaking of Internal Waves in the Ocean. Journal of Physical Oceanography, 1999, 29, 2433-2441.	1.7	42
20	The axial coherence of Kelvinâ€“Helmholtz billows. Quarterly Journal of the Royal Meteorological Society, 2002, 128, 1529-1542.	2.7	42
21	Observations of the thermal structure of a lake using a submarine. Limnology and Oceanography, 1999, 44, 1575-1582.	3.1	41
22	Internal waves and whitecaps. Nature, 1987, 330, 740-742.	27.8	36
23	Billows in Loch Ness. Deep-sea Research, 1977, 24, 371-IN3.	0.5	33
24	The distortion of short internal waves produced by a long wave, with application to ocean boundary mixing. Journal of Fluid Mechanics, 1989, 208, 395-415.	3.4	32
25	The stability of statically unstable layers. Journal of Fluid Mechanics, 1994, 260, 315-331.	3.4	32
26	On the Reflection of Internal Wave Groups from Sloping Topography. Journal of Physical Oceanography, 2001, 31, 3121-3126.	1.7	32
27	Observations of mixing near the sides of a deep lake in winter. Limnology and Oceanography, 2002, 47, 535-544.	3.1	32
28	The effects of laterally sloping upper and lower boundaries on waves and instability in stratified shear flows. Journal of Fluid Mechanics, 1995, 286, 49-65.	3.4	27
29	Patterns in foam. Weather, 1999, 54, 327-334.	0.7	27
30	The effect of small viscosity and diffusivity on the marginal stability of stably stratified shearÂflows. Journal of Fluid Mechanics, 2013, 731, 461-476.	3.4	27
31	Internal gravity wave frequencies and wavenumbers from single point measurements over a slope. Journal of Marine Research, 2002, 60, 699-723.	0.3	24
32	On the Kelvinâ€“Helmholtz route to turbulence. Journal of Fluid Mechanics, 2012, 708, 1-4.	3.4	24
33	Models of energy loss from internal waves breaking in the ocean. Journal of Fluid Mechanics, 2018, 836, 72-116.	3.4	20
34	Observations of parametric instability and breaking waves in an oscillating tilted tube. Journal of Fluid Mechanics, 1994, 261, 33-45.	3.4	19
35	Destabilization of a stratified shear layer by ambient turbulence. Journal of Fluid Mechanics, 2015, 771, 1-15.	3.4	17
36	Turbulent hydraulic jumps in a stratified shear flow. Journal of Fluid Mechanics, 2010, 654, 305-350.	3.4	14

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37	Application of a model of internal hydraulicÂjumps. Journal of Fluid Mechanics, 2018, 834, 125-148.	3.4	13
38	Breaking internal waves and turbulent dissipation. Journal of Marine Research, 2010, 68, 851-880.	0.3	12
39	Kelvinâ€Helmholtz Billow Interactions and Instabilities in the Mesosphere Over the Andes Lidar Observatory: 2. Modeling and Interpretation. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033412.	3.3	12
40	Turbulent hydraulic jumps in a stratified shear flow. Part 2. Journal of Fluid Mechanics, 2014, 758, 94-120.	3.4	10
41	Multi-scale dynamics of Kelvinâ€“Helmholtz instabilities. Part 1. Secondary instabilities and the dynamics of tubes and knots. Journal of Fluid Mechanics, 2022, 941, .	3.4	9
42	The Effects of Rotation on the Nonlinear Reflection of Internal Waves from a Slope. Journal of Physical Oceanography, 2000, 30, 1901-1909.	1.7	8
43	Turbulence in the Stratified and Rotating World Ocean. Theoretical and Computational Fluid Dynamics, 1998, 11, 171-181.	2.2	7
44	Multi-scale dynamics of Kelvinâ€“Helmholtz instabilities. Part 2. Energy dissipation rates, evolutions and statistics. Journal of Fluid Mechanics, 2022, 941, .	3.4	5
45	The relation between the duration and shape of internal wave groups. Journal of Marine Research, 2010, 68, 63-95.	0.3	3
46	A Comparison of Stable Boundary Layers in the Ocean and the Atmosphere. Boundary-Layer Meteorology, 1999, 90, 521-528.	2.3	2
47	The interaction of internal wave groups with a uniform sloping boundary. Journal of Fluid Mechanics, 2021, 913, .	3.4	1