

Stephen Thorpe

List of Publications by Year in descending order

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47
papers

3,024
citations

201674

27
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214800

47
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docs citations

49
times ranked

1506
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-scale dynamics of Kelvinâ€Helmholtz instabilities. Part 2. Energy dissipation rates, evolutions and statistics. <i>Journal of Fluid Mechanics</i> , 2022, 941, .	3.4	5
2	Multi-scale dynamics of Kelvinâ€Helmholtz instabilities. Part 1. Secondary instabilities and the dynamics of tubes and knots. <i>Journal of Fluid Mechanics</i> , 2022, 941, .	3.4	9
3	Kelvinâ€Helmholtz Billow Interactions and Instabilities in the Mesosphere Over the Andes Lidar Observatory: 2. Modeling and Interpretation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033412.	3.3	12
4	The interaction of internal wave groups with a uniform sloping boundary. <i>Journal of Fluid Mechanics</i> , 2021, 913, .	3.4	1
5	Models of energy loss from internal waves breaking in the ocean. <i>Journal of Fluid Mechanics</i> , 2018, 836, 72-116.	3.4	20
6	Application of a model of internal hydraulic jumps. <i>Journal of Fluid Mechanics</i> , 2018, 834, 125-148.	3.4	13
7	Destabilization of a stratified shear layer by ambient turbulence. <i>Journal of Fluid Mechanics</i> , 2015, 771, 1-15.	3.4	17
8	Turbulent hydraulic jumps in a stratified shear flow. Part 2. <i>Journal of Fluid Mechanics</i> , 2014, 758, 94-120.	3.4	10
9	The effect of small viscosity and diffusivity on the marginal stability of stably stratified shear flows. <i>Journal of Fluid Mechanics</i> , 2013, 731, 461-476.	3.4	27
10	On the Kelvinâ€Helmholtz route to turbulence. <i>Journal of Fluid Mechanics</i> , 2012, 708, 1-4.	3.4	24
11	The relation between the duration and shape of internal wave groups. <i>Journal of Marine Research</i> , 2010, 68, 63-95.	0.3	3
12	Turbulent hydraulic jumps in a stratified shear flow. <i>Journal of Fluid Mechanics</i> , 2010, 654, 305-350.	3.4	14
13	Breaking internal waves and turbulent dissipation. <i>Journal of Marine Research</i> , 2010, 68, 851-880.	0.3	12
14	Observations of mixing near the sides of a deep lake in winter. <i>Limnology and Oceanography</i> , 2002, 47, 535-544.	3.1	32
15	Winter cascading of cold water in Lake Geneva. <i>Journal of Geophysical Research</i> , 2002, 107, 13-1.	3.3	80
16	Internal gravity wave frequencies and wavenumbers from single point measurements over a slope. <i>Journal of Marine Research</i> , 2002, 60, 699-723.	0.3	24
17	The axial coherence of Kelvinâ€Helmholtz billows. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2002, 128, 1529-1542.	2.7	42
18	Cascading of water down the sloping sides of a deep lake in winter. <i>Geophysical Research Letters</i> , 2001, 28, 2093-2096.	4.0	49

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19	On the Reflection of Internal Wave Groups from Sloping Topography. <i>Journal of Physical Oceanography</i> , 2001, 31, 3121-3126.	1.7	32
20	The Effects of Rotation on the Nonlinear Reflection of Internal Waves from a Slope. <i>Journal of Physical Oceanography</i> , 2000, 30, 1901-1909.	1.7	8
21	Surface effects of bottom-generated turbulence in a shallow tidal sea. <i>Nature</i> , 1999, 400, 251-254.	27.8	81
22	A Comparison of Stable Boundary Layers in the Ocean and the Atmosphere. <i>Boundary-Layer Meteorology</i> , 1999, 90, 521-528.	2.3	2
23	Patterns in foam. <i>Weather</i> , 1999, 54, 327-334.	0.7	27
24	On Internal Wave Groups. <i>Journal of Physical Oceanography</i> , 1999, 29, 1085-1095.	1.7	43
25	On the Breaking of Internal Waves in the Ocean. <i>Journal of Physical Oceanography</i> , 1999, 29, 2433-2441.	1.7	42
26	Observations of the thermal structure of a lake using a submarine. <i>Limnology and Oceanography</i> , 1999, 44, 1575-1582.	3.1	41
27	Turbulence in the Stratified and Rotating World Ocean. <i>Theoretical and Computational Fluid Dynamics</i> , 1998, 11, 171-181.	2.2	7
28	Estimating internal waves and diapycnal mixing from conventional mooring data in a lake. <i>Limnology and Oceanography</i> , 1998, 43, 936-945.	3.1	43
29	On the Interactions of Internal Waves Reflecting from Slopes. <i>Journal of Physical Oceanography</i> , 1997, 27, 2072-2078.	1.7	59
30	The effects of laterally sloping upper and lower boundaries on waves and instability in stratified shear flows. <i>Journal of Fluid Mechanics</i> , 1995, 286, 49-65.	3.4	27
31	Observations of parametric instability and breaking waves in an oscillating tilted tube. <i>Journal of Fluid Mechanics</i> , 1994, 261, 33-45.	3.4	19
32	The stability of statically unstable layers. <i>Journal of Fluid Mechanics</i> , 1994, 260, 315-331.	3.4	32
33	Statically unstable layers produced by overturning internal gravity waves. <i>Journal of Fluid Mechanics</i> , 1994, 260, 333-350.	3.4	50
34	The distortion of short internal waves produced by a long wave, with application to ocean boundary mixing. <i>Journal of Fluid Mechanics</i> , 1989, 208, 395-415.	3.4	32
35	A deep intermediate nepheloid layer. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1988, 35, 1665-1671.	1.5	100
36	On the reflection of a train of finite-amplitude internal waves from a uniform slope. <i>Journal of Fluid Mechanics</i> , 1987, 178, 279-302.	3.4	90

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37	Transitional phenomena and the development of turbulence in stratified fluids: A review. <i>Journal of Geophysical Research</i> , 1987, 92, 5231-5248.	3.3	190
38	Bubble clouds and temperature anomalies in the upper ocean. <i>Nature</i> , 1987, 328, 48-51.	27.8	48
39	Internal waves and whitecaps. <i>Nature</i> , 1987, 330, 740-742.	27.8	36
40	Laboratory observations of secondary structures in kelvin-helmholtz billows and consequences for ocean mixing. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1985, 34, 175-199.	1.2	63
41	An experimental study of critical layers. <i>Journal of Fluid Mechanics</i> , 1981, 103, 321.	3.4	76
42	Billows in Loch Ness. <i>Deep-sea Research</i> , 1977, 24, 371-IN3.	0.5	33
43	Turbulence in stably stratified fluids: A review of laboratory experiments. <i>Boundary-Layer Meteorology</i> , 1973, 5, 95-119.	2.3	184
44	Experiments on instability and turbulence in a stratified shear flow. <i>Journal of Fluid Mechanics</i> , 1973, 61, 731-751.	3.4	284
45	Experiments on the instability of stratified shear flows: miscible fluids. <i>Journal of Fluid Mechanics</i> , 1971, 46, 299-319.	3.4	264
46	Experiments on the instability of stratified shear flows: immiscible fluids. <i>Journal of Fluid Mechanics</i> , 1969, 39, 25-48.	3.4	137
47	A method of producing a shear flow in a stratified fluid. <i>Journal of Fluid Mechanics</i> , 1968, 32, 693-704.	3.4	221