Tom P Rippeth

List of Publications by Year
in descending order

49 papers	2,874 citations	159585 30 h-index	206112 48 g-index
51 all docs	51 docs citations	51 times ranked	2329 citing authors

#	Article	IF	Citations
1	The Vertical Structure of Turbulent Dissipation in Shelf Seas. Journal of Physical Oceanography, 1996, 26, 1579-1590.	1.7	197
2	Phytoplankton distribution and survival in the thermocline. Limnology and Oceanography, 2001, 46, 486-496.	3.1	171
3	Comparing the performance of the Mellor-Yamada and the Îº-Îµ two-equation turbulence models. Journal of Geophysical Research, 1998, 103, 10543-10554.	3.3	158
4	The Cycle of Turbulent Dissipation in the Presence of Tidal Straining. Journal of Physical Oceanography, 2001, 31, 2458-2471.	1.7	154
5	Springâ€neap modulation of internal tide mixing and vertical nitrate fluxes at a shelf edge in summer. Limnology and Oceanography, 2007, 52, 1735-1747.	3.1	153
6	A novel technique for measuring the rate of turbulent dissipation in the marine environment. Geophysical Research Letters, 2006, 33, .	4.0	145
7	Reynolds Stress and Turbulent Energy Production in a Tidal Channel. Journal of Physical Oceanography, 2002, 32, 1242-1251.	1.7	126
8	Observational and numerical modeling methods for quantifying coastal ocean turbulence and mixing. Progress in Oceanography, 2008, 76, 399-442.	3.2	113
9	Impact of nonlinear waves on the dissipation of internal tidal energy at a shelf break. Journal of Geophysical Research, 2000, 105, 8687-8705.	3.3	111
10	Tide-mediated warming of Arctic halocline by Atlantic heat fluxes over rough topography. Nature Geoscience, 2015, 8, 191-194.	12.9	111
11	Measurement of the Rates of Production and Dissipation of Turbulent Kinetic Energy in an Energetic Tidal Flow: Red Wharf Bay Revisited. Journal of Physical Oceanography, 2003, 33, 1889-1901.	1.7	99
12	The semi-diurnal cycle of dissipation in a ROFI: model-measurement comparisons. Continental Shelf Research, 2002, 22, 1615-1628.	1.8	95
13	Weakening of Cold Halocline Layer Exposes Sea Ice to Oceanic Heat in the Eastern Arctic Ocean. Journal of Climate, 2020, 33, 8107-8123.	3.2	82
14	Mixing in seasonally stratified shelf seas: a shifting paradigm. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 2837-2854.	3.4	70
15	Observations of the internal tide and associated mixing across the Malin Shelf. Journal of Geophysical Research, 2002, 107, 3-1.	3.3	62
16	The diapcynal nutrient flux and shear-induced diapcynal mixing in the seasonally stratified western Irish Sea. Continental Shelf Research, 2009, 29, 1580-1587.	1.8	60
17	Current oscillations in the diurnalâ€"inertial band on the Catalonian shelf in spring. Continental Shelf Research, 2002, 22, 247-265.	1.8	58
18	Thermocline mixing in summer stratified continental shelf seas. Geophysical Research Letters, 2005, 32, .	4.0	58

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19	Intermittent Intense Turbulent Mixing under Ice in the Laptev Sea Continental Shelf. Journal of Physical Oceanography, 2011, 41, 531-547.	1.7	58
20	Generation of Bulk Shear Spikes in Shallow Stratified Tidal Seas. Journal of Physical Oceanography, 2009, 39, 969-985.	1.7	56
21	An investigation of internal mixing in a seasonally stratified shelf sea. Journal of Geophysical Research, 2008, 113, .	3.3	55
22	Windâ€driven nutrient pulses to the subsurface chlorophyll maximum in seasonally stratified shelf seas. Geophysical Research Letters, 2013, 40, 5467-5472.	4.0	53
23	Windâ€driven mixing at intermediate depths in an iceâ€free Arctic Ocean. Geophysical Research Letters, 2016, 43, 9749-9756.	4.0	47
24	Evolution and distribution of TKE production and dissipation within stratified flow over topography. Geophysical Research Letters, 2005, 32, .	4.0	44
25	The Contribution of Surface and Submesoscale Processes to Turbulence in the Open Ocean Surface Boundary Layer. Journal of Advances in Modeling Earth Systems, 2019, 11, 4066-4094.	3.8	44
26	Temporal variation of suspended particulate matter and turbulence in a high energy, tide-stirred, coastal sea: Relative contributions of resuspension and disaggregation. Continental Shelf Research, 2006, 26, 2019-2028.	1.8	39
27	Tidal mixing and the Meridional Overturning Circulation from the Last Glacial Maximum. Geophysical Research Letters, 2009, 36, .	4.0	39
28	Tidal Conversion and Mixing Poleward of the Critical Latitude (an Arctic Case Study). Geophysical Research Letters, 2017, 44, 12,349.	4.0	36
29	Ocean nutrient pathways associated with the passage of a storm. Global Biogeochemical Cycles, 2015, 29, 1179-1189.	4.9	34
30	Tidally Forced Lee Waves Drive Turbulent Mixing Along the Arctic Ocean Margins. Geophysical Research Letters, 2020, 47, e2020GL088083.	4.0	32
31	Intensification of Nearâ€Surface Currents and Shear in the Eastern Arctic Ocean. Geophysical Research Letters, 2020, 47, e2020GL089469.	4.0	32
32	Global Tidal Impacts of Largeâ€Scale Ice Sheet Collapses. Journal of Geophysical Research: Oceans, 2017, 122, 8354-8370.	2.6	30
33	Diurnal signals in vertical motions on the Hebridean Shelf. Limnology and Oceanography, 1998, 43, 1690-1696.	3.1	29
34	Dissipation of Tidal Energy and Associated Mixing in a Wide Fjord. Environmental Fluid Mechanics, 2002, 2, 219-240.	1.6	24
35	Anthropogenic Mixing in Seasonally Stratified Shelf Seas by Offshore Wind Farm Infrastructure. Frontiers in Marine Science, 2022, 9, .	2.5	22
36	Shear at the Base of the Oceanic Mixed Layer Generated by Wind Shear Alignment. Journal of Physical Oceanography, 2013, 43, 1798-1810.	1.7	21

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37	The maintenance of the subsurface chlorophyll maximum in the stratified western Irish Sea. Limnology & Oceanography Fluids & Environments, 2013, 3, 61-73.	1.7	20
38	Spatial Variability of Diapycnal Mixing and Turbulent Dissipation Rates in a Stagnant Fjord Basin. Journal of Physical Oceanography, 2004, 34, 1679-1691.	1.7	18
39	Impact of vertical mixing on sea surface <i>p</i>CO₂ in temperate seasonally stratified shelf seas. Journal of Geophysical Research: Oceans, 2014, 119, 3868-3882.	2.6	17
40	Observations of a diapycnal shortcut to adiabatic upwelling of Antarctic Circumpolar Deep Water. Geophysical Research Letters, 2014, 41, 7950-7956.	4.0	16
41	Impact of seaâ€level rise over the last deglacial transition on the strength of the continental shelf CO₂ pump. Geophysical Research Letters, 2008, 35, .	4.0	15
42	Correcting Surface Wave Bias in Structure Function Estimates of Turbulent Kinetic Energy Dissipation Rate. Journal of Atmospheric and Oceanic Technology, 2017, 34, 2257-2273.	1.3	15
43	Turbulent Mixing and the Formation of an Intermediate Nepheloid Layer Above the Siberian Continental Shelf Break. Geophysical Research Letters, 2021, 48, e2021GL092988.	4.0	13
44	The structure of dissipation in the western Irish Sea front. Journal of Marine Systems, 2009, 77, 428-440.	2.1	11
45	Evolution of Oceanic Near-Surface Stratification in Response to an Autumn Storm. Journal of Physical Oceanography, 2019, 49, 2961-2978.	1.7	10
46	Turbulent Mixing in a Changing Arctic Ocean. Oceanography, 2022, , .	1.0	7
47	Shelf Seas Baroclinic Energy Loss: Pycnocline Mixing and Bottom Boundary Layer Dissipation. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016528.	2.6	6
48	Increasing Nutrient Fluxes and Mixing Regime Changes in the Eastern Arctic Ocean. Geophysical Research Letters, 2022, 49, .	4.0	6
49	Impact of acoustic Doppler current profiler (ADCP) motion on structure function estimates of turbulent kinetic energy dissipation rate. Ocean Science, 2022, 18, 169-192.	3.4	1