Benoit Cushman-Roisin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4223698/publications.pdf

Version: 2024-02-01

55 papers	1,111 citations	430874 18 h-index	395702 33 g-index
60 all docs	60 docs citations	60 times ranked	922 citing authors

#	Article	IF	Citations
1	Dynamical adjustment of two streams past their confluence. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 305-313.	1.7	7
2	Celebrating the twentieth anniversary of EFM. Environmental Fluid Mechanics, 2020, 20, 1379-1381.	1.6	0
3	Top-to-bottom Ekman layer and its implications for shallow rotating flows. Environmental Fluid Mechanics, 2019, 19, 1105-1119.	1.6	2
4	Stratification. International Geophysics, 2011, 101, 347-364.	0.6	2
5	Transport and Fate. International Geophysics, 2011, 101, 163-202.	0.6	3
6	Diffusive Processes. International Geophysics, 2011, 101, 131-161.	0.6	0
7	Barotropic Waves. International Geophysics, 2011, 101, 271-315.	0.6	1
8	The Coriolis Force. International Geophysics, 2011, 101, 41-75.	0.6	1
9	Equations Governing Geophysical Flows. International Geophysics, 2011, 101, 99-129.	0.6	3
10	Quasi-Geostrophic Dynamics. International Geophysics, 2011, 101, 521-551.	0.6	3
11	Equations of Fluid Motion. International Geophysics, 2011, 101, 77-97.	0.6	1
12	Layered Models. International Geophysics, 2011, 101, 365-394.	0.6	0
13	Dynamics of Stratified Rotating Flows. International Geophysics, 2011, 101, 473-520.	0.6	1
14	Fronts, Jets and Vortices. International Geophysics, 2011, 101, 589-623.	0.6	4
15	Oceanic General Circulation. International Geophysics, 2011, 101, 657-699.	0.6	0
16	Geostrophic Flows and Vorticity Dynamics. International Geophysics, 2011, 101, 205-238.	0.6	1
17	The Ekman Layer. International Geophysics, 2011, 101, 239-270.	0.6	1
18	Barotropic instability of coastal flows as a boundary-value problem: linear and non-linear theory. Geophysical and Astrophysical Fluid Dynamics, 2009, 103, 279-292.	1.2	0

#	Article	IF	Citations
19	Beyond eddy diffusivity: an alternative model for turbulent dispersion. Environmental Fluid Mechanics, 2008, 8, 543-549.	1.6	17
20	Simulation and characterization of the Adriatic Sea mesoscale variability. Journal of Geophysical Research, 2007, 112, .	3.3	27
21	Mesoscaleâ€resolving simulations of summer and winter bora events in the Adriatic Sea. Journal of Geophysical Research, 2007, 112, .	3.3	24
22	Introduction to special section: Recent Advances in Oceanography and Marine Meteorology of the Adriatic Sea. Journal of Geophysical Research, 2007, 112, .	3.3	9
23	On a Non-local Parameterisation for Shear Turbulence and the Uniqueness of its Solutions. Boundary-Layer Meteorology, 2006, 118, 69-82.	2.3	6
24	Kelvinâ€“Helmholtz Instability as a Boundary-Value Problem. Environmental Fluid Mechanics, 2005, 5, 507-525.	1.6	13
25	Influence of stratification on decaying surface seiche modes. Continental Shelf Research, 2005, 25, 227-242.	1.8	14
26	Northern Adriatic response to a wintertime bora wind event. Eos, 2005, 86, 157.	0.1	69
27	A 3D finite-element model of the Adriatic tides. Journal of Marine Systems, 2002, 37, 279-297.	2.1	71
28	What is Environmental Fluid Mechanics?. Environmental Fluid Mechanics, 2001, 1, 1-2.	1.6	11
29	Organic Modeling Systems. Marine Technology Society Journal, 2000, 34, 42-45.	0.4	0
30	A particle-in-cell method for the solution of two-layer shallow-water equations. International Journal for Numerical Methods in Fluids, 2000, 32, 515-543.	1.6	9
31	A Simulation Tool for Industrial Ecology: Creating a Board Game. Journal of Industrial Ecology, 1999, 3, 131-144.	5.5	9
32	Bottom Ekman Pumping with Stress-Dependent Eddy Viscosity. Journal of Physical Oceanography, 1997, 27, 1967-1975.	1.7	13
33	Barotropic thin jets over arbitrary topography. Dynamics of Atmospheres and Oceans, 1997, 26, 73-93.	1.8	3
34	Lower and Upper Bounds on Internal-Wave Frequencies in Stratified Rotating Fluids. Physical Review Letters, 1996, 77, 4903-4905.	7.8	5
35	Elliptical Warm-Core Rings in a Two-Layer Ocean with Ambient Shear. Journal of Physical Oceanography, 1995, 25, 2011-2024.	1.7	12
36	Upwelling in broad fjords. Continental Shelf Research, 1994, 14, 1701-1721.	1.8	38

#	Article	IF	Citations
37	On the stability of two-layered large-amplitude geostrophic flows with thin upper layer. Geophysical and Astrophysical Fluid Dynamics, 1994, 76, 29-41.	1.2	9
38	A General Theory for Equivalent Barotropic Thin Jets. Journal of Physical Oceanography, 1993, 23, 91-103.	1.7	46
39	Two-Layer Geostrophic Dynamics. Part I: Governing Equations. Journal of Physical Oceanography, 1992, 22, 117-127.	1.7	46
40	Solution of the mild-slope wave problem by iteration. Applied Ocean Research, 1991, 13, 187-199.	4.1	82
41	On the Influence of a Lower Layer on the Propagation of Nonlinear Oceanic Eddies. Journal of Physical Oceanography, 1991, 21, 939-957.	1.7	54
42	Westward Motion of Mesoscale Eddies. Journal of Physical Oceanography, 1990, 20, 758-768.	1.7	201
43	Merging of Frontal Eddies. Journal of Physical Oceanography, 1990, 20, 1886-1906.	1.7	26
44	On the Role of Filamentation in the Merging of Anticyclonic Lenses. Journal of Physical Oceanography, 1989, 19, 253-258.	1.7	24
45	Resonance of internal waves in fjords: A finite-difference model. Journal of Marine Research, 1989, 47, 547-567.	0.3	12
46	On the Role of Heat Flux in the Gulf Stream-Sargasso Sea Subtropical Gyre System. Journal of Physical Oceanography, 1987, 17, 2189-2202.	1.7	23
47	Exact analytical solutions for elliptical vortices of the shallow-water equations. Tellus, Series A: Dynamic Meteorology and Oceanography, 1987, 39, 235-244.	1.7	20
48	Frontal Geostrophic Dynamics. Journal of Physical Oceanography, 1986, 16, 132-143.	1.7	78
49	Interactions between mean flow and finite-amplitude mesoscale eddies in a barotropic ocean. Geophysical and Astrophysical Fluid Dynamics, 1984, 29, 333-353.	1.2	2
50	Analytical, linear stability criteria for the leap-frog, Dufort-Frankel method. Journal of Computational Physics, 1984, 53, 227-239.	3.8	26
51	On the Maintenance of the Subtropical Front and its Associated Countercurrent. Journal of Physical Oceanography, 1984, 14, 1179-1190.	1.7	33
52	On Wind and Ocean-Velocity Correlations in a Coastal-Upwelling System. Journal of Physical Oceanography, 1983, 13, 547-550.	1.7	7
53	A theory of convection: Modelling by two buoyant interacting fluids. Geophysical and Astrophysical Fluid Dynamics, 1982, 19, 35-59.	1.2	7
54	Penetrative convection in the upper ocean due to surface cooling. Geophysical and Astrophysical Fluid Dynamics, 1982, 19, 61-91.	1.2	10

#	Article	IF	Citations
55	Effects of Horizontal Advection on Upper Ocean Mixing: A Case of Frontogenesis. Journal of Physical Oceanography, 1981, 11, 1345-1356.	1.7	24