

Benoit Cushman-Roisin

List of Publications by Year in descending order

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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	Westward Motion of Mesoscale Eddies. <i>Journal of Physical Oceanography</i> , 1990, 20, 758-768.	1.7	201
2	Solution of the mild-slope wave problem by iteration. <i>Applied Ocean Research</i> , 1991, 13, 187-199.	4.1	82
3	Frontal Geostrophic Dynamics. <i>Journal of Physical Oceanography</i> , 1986, 16, 132-143.	1.7	78
4	A 3D finite-element model of the Adriatic tides. <i>Journal of Marine Systems</i> , 2002, 37, 279-297.	2.1	71
5	Northern Adriatic response to a wintertime bora wind event. <i>Eos</i> , 2005, 86, 157.	0.1	69
6	On the Influence of a Lower Layer on the Propagation of Nonlinear Oceanic Eddies. <i>Journal of Physical Oceanography</i> , 1991, 21, 939-957.	1.7	54
7	Two-Layer Geostrophic Dynamics. Part I: Governing Equations. <i>Journal of Physical Oceanography</i> , 1992, 22, 117-127.	1.7	46
8	A General Theory for Equivalent Barotropic Thin Jets. <i>Journal of Physical Oceanography</i> , 1993, 23, 91-103.	1.7	46
9	Upwelling in broad fjords. <i>Continental Shelf Research</i> , 1994, 14, 1701-1721.	1.8	38
10	On the Maintenance of the Subtropical Front and its Associated Countercurrent. <i>Journal of Physical Oceanography</i> , 1984, 14, 1179-1190.	1.7	33
11	Simulation and characterization of the Adriatic Sea mesoscale variability. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	27
12	Analytical, linear stability criteria for the leap-frog, Dufort-Frankel method. <i>Journal of Computational Physics</i> , 1984, 53, 227-239.	3.8	26
13	Merging of Frontal Eddies. <i>Journal of Physical Oceanography</i> , 1990, 20, 1886-1906.	1.7	26
14	Effects of Horizontal Advection on Upper Ocean Mixing: A Case of Frontogenesis. <i>Journal of Physical Oceanography</i> , 1981, 11, 1345-1356.	1.7	24
15	On the Role of Filamentation in the Merging of Anticyclonic Lenses. <i>Journal of Physical Oceanography</i> , 1989, 19, 253-258.	1.7	24
16	Mesoscale-resolving simulations of summer and winter bora events in the Adriatic Sea. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	24
17	On the Role of Heat Flux in the Gulf Stream-Sargasso Sea Subtropical Gyre System. <i>Journal of Physical Oceanography</i> , 1987, 17, 2189-2202.	1.7	23
18	Exact analytical solutions for elliptical vortices of the shallow-water equations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1987, 39, 235-244.	1.7	20

#	ARTICLE	IF	CITATIONS
19	Beyond eddy diffusivity: an alternative model for turbulent dispersion. <i>Environmental Fluid Mechanics</i> , 2008, 8, 543-549.	1.6	17
20	Influence of stratification on decaying surface seiche modes. <i>Continental Shelf Research</i> , 2005, 25, 227-242.	1.8	14
21	Bottom Ekman Pumping with Stress-Dependent Eddy Viscosity. <i>Journal of Physical Oceanography</i> , 1997, 27, 1967-1975.	1.7	13
22	Kelvin's Helmholtz Instability as a Boundary-Value Problem. <i>Environmental Fluid Mechanics</i> , 2005, 5, 507-525.	1.6	13
23	Resonance of internal waves in fjords: A finite-difference model. <i>Journal of Marine Research</i> , 1989, 47, 547-567.	0.3	12
24	Elliptical Warm-Core Rings in a Two-Layer Ocean with Ambient Shear. <i>Journal of Physical Oceanography</i> , 1995, 25, 2011-2024.	1.7	12
25	What is Environmental Fluid Mechanics?. <i>Environmental Fluid Mechanics</i> , 2001, 1, 1-2.	1.6	11
26	Penetrative convection in the upper ocean due to surface cooling. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1982, 19, 61-91.	1.2	10
27	On the stability of two-layered large-amplitude geostrophic flows with thin upper layer. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1994, 76, 29-41.	1.2	9
28	A Simulation Tool for Industrial Ecology: Creating a Board Game. <i>Journal of Industrial Ecology</i> , 1999, 3, 131-144.	5.5	9
29	A particle-in-cell method for the solution of two-layer shallow-water equations. <i>International Journal for Numerical Methods in Fluids</i> , 2000, 32, 515-543.	1.6	9
30	Introduction to special section: Recent Advances in Oceanography and Marine Meteorology of the Adriatic Sea. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	9
31	A theory of convection: Modelling by two buoyant interacting fluids. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1982, 19, 35-59.	1.2	7
32	On Wind and Ocean-Velocity Correlations in a Coastal-Upwelling System. <i>Journal of Physical Oceanography</i> , 1983, 13, 547-550.	1.7	7
33	Dynamical adjustment of two streams past their confluence. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2020, 58, 305-313.	1.7	7
34	On a Non-local Parameterisation for Shear Turbulence and the Uniqueness of its Solutions. <i>Boundary-Layer Meteorology</i> , 2006, 118, 69-82.	2.3	6
35	Lower and Upper Bounds on Internal-Wave Frequencies in Stratified Rotating Fluids. <i>Physical Review Letters</i> , 1996, 77, 4903-4905.	7.8	5
36	Fronts, Jets and Vortices. <i>International Geophysics</i> , 2011, 101, 589-623.	0.6	4

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37	Barotropic thin jets over arbitrary topography. <i>Dynamics of Atmospheres and Oceans</i> , 1997, 26, 73-93.	1.8	3
38	Transport and Fate. <i>International Geophysics</i> , 2011, 101, 163-202.	0.6	3
39	Equations Governing Geophysical Flows. <i>International Geophysics</i> , 2011, 101, 99-129.	0.6	3
40	Quasi-Geostrophic Dynamics. <i>International Geophysics</i> , 2011, 101, 521-551.	0.6	3
41	Interactions between mean flow and finite-amplitude mesoscale eddies in a barotropic ocean. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1984, 29, 333-353.	1.2	2
42	Stratification. <i>International Geophysics</i> , 2011, 101, 347-364.	0.6	2
43	Top-to-bottom Ekman layer and its implications for shallow rotating flows. <i>Environmental Fluid Mechanics</i> , 2019, 19, 1105-1119.	1.6	2
44	Barotropic Waves. <i>International Geophysics</i> , 2011, 101, 271-315.	0.6	1
45	The Coriolis Force. <i>International Geophysics</i> , 2011, 101, 41-75.	0.6	1
46	Equations of Fluid Motion. <i>International Geophysics</i> , 2011, 101, 77-97.	0.6	1
47	Dynamics of Stratified Rotating Flows. <i>International Geophysics</i> , 2011, 101, 473-520.	0.6	1
48	Geostrophic Flows and Vorticity Dynamics. <i>International Geophysics</i> , 2011, 101, 205-238.	0.6	1
49	The Ekman Layer. <i>International Geophysics</i> , 2011, 101, 239-270.	0.6	1
50	Organic Modeling Systems. <i>Marine Technology Society Journal</i> , 2000, 34, 42-45.	0.4	0
51	Barotropic instability of coastal flows as a boundary-value problem: linear and non-linear theory. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2009, 103, 279-292.	1.2	0
52	Diffusive Processes. <i>International Geophysics</i> , 2011, 101, 131-161.	0.6	0
53	Layered Models. <i>International Geophysics</i> , 2011, 101, 365-394.	0.6	0
54	Oceanic General Circulation. <i>International Geophysics</i> , 2011, 101, 657-699.	0.6	0

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55	Celebrating the twentieth anniversary of EFM. Environmental Fluid Mechanics, 2020, 20, 1379-1381.	1.6	0