

Oliver B Fringer

List of Publications by Year in descending order

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85
papers

3,415
citations

159358

30
h-index

149479

56
g-index

88
all docs

88
docs citations

88
times ranked

2719
citing authors

#	ARTICLE	IF	CITATIONS
1	The formation and fate of internal waves in the South China Sea. <i>Nature</i> , 2015, 521, 65-69.	13.7	487
2	An unstructured-grid, finite-volume, nonhydrostatic, parallel coastal ocean simulator. <i>Ocean Modelling</i> , 2006, 14, 139-173.	1.0	346
3	The dynamics of breaking progressive interfacial waves. <i>Journal of Fluid Mechanics</i> , 2003, 494, 319-353.	1.4	140
4	Energetics of Barotropic and Baroclinic Tides in the Monterey Bay Area. <i>Journal of Physical Oceanography</i> , 2012, 42, 272-290.	0.7	134
5	Modeling Environmental DNA Transport in the Coastal Ocean Using Lagrangian Particle Tracking. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	104
6	Mechanistic Modeling of Broth Temperature in Outdoor Photobioreactors. <i>Environmental Science & Technology</i> , 2010, 44, 2197-2203.	4.6	101
7	On the formation and propagation of nonlinear internal boluses across a shelf break. <i>Journal of Fluid Mechanics</i> , 2007, 577, 137-159.	1.4	96
8	Physical vs. numerical dispersion in nonhydrostatic ocean modeling. <i>Ocean Modelling</i> , 2011, 40, 72-86.	1.0	89
9	Nearshore internal bores and turbulent mixing in southern Monterey Bay. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	86
10	Modeling and Prediction of Internal Waves in the South China Sea. <i>Oceanography</i> , 2011, 24, 88-99.	0.5	84
11	A model for the simulation of coupled flow–form evolution in turbulent flows. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	76
12	The dynamics of breaking internal solitary waves on slopes. <i>Journal of Fluid Mechanics</i> , 2014, 761, 360-398.	1.4	76
13	The future of coastal and estuarine modeling: Findings from a workshop. <i>Ocean Modelling</i> , 2019, 143, 101458.	1.0	72
14	On the Calculation of Available Potential Energy in Internal Wave Fields. <i>Journal of Physical Oceanography</i> , 2010, 40, 2539-2545.	0.7	68
15	Simulations of shear instabilities in interfacial gravity waves. <i>Journal of Fluid Mechanics</i> , 2010, 644, 61-95.	1.4	64
16	Modeling Exposure Close to Air Pollution Sources in Naturally Ventilated Residences: Association of Turbulent Diffusion Coefficient with Air Change Rate. <i>Environmental Science & Technology</i> , 2011, 45, 4016-4022.	4.6	59
17	Regional Models of Internal Tides. <i>Oceanography</i> , 2012, 25, 56-65.	0.5	57
18	Modeling dilute sediment suspension using large-eddy simulation with a dynamic mixed model. <i>Physics of Fluids</i> , 2008, 20, .	1.6	55

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19	Historical Analysis of Hydraulic Bridge Collapses in the Continental United States. <i>Journal of Infrastructure Systems</i> , 2017, 23, .	1.0	55
20	Improved parameterization of seagrass blade dynamics and wave attenuation based on numerical and laboratory experiments. <i>Limnology and Oceanography</i> , 2014, 59, 251-266.	1.6	51
21	Time scales in Galveston Bay: An unsteady estuary. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 2268-2285.	1.0	47
22	The variability of the large-amplitude internal wave field on the Australian North West Shelf. <i>Continental Shelf Research</i> , 2009, 29, 1373-1383.	0.9	43
23	Sensitivity analysis of three-dimensional salinity simulations in North San Francisco Bay using the unstructured-grid SUNTANS model. <i>Ocean Modelling</i> , 2011, 39, 332-350.	1.0	42
24	A coupled wave-hydrodynamic model of an atoll with high friction: Mechanisms for flow, connectivity, and ecological implications. <i>Ocean Modelling</i> , 2017, 110, 66-82.	1.0	41
25	High-resolution simulations of a macrotidal estuary using SUNTANS. <i>Ocean Modelling</i> , 2009, 26, 60-85.	1.0	38
26	Mixing and sediment resuspension associated with internal bores in a shallow bay. <i>Continental Shelf Research</i> , 2015, 110, 85-99.	0.9	38
27	Transport by breaking internal gravity waves on slopes. <i>Journal of Fluid Mechanics</i> , 2016, 789, 93-126.	1.4	35
28	Fate of Internal Waves on a Shallow Shelf. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015377.	1.0	35
29	Integrable vs. nonintegrable geodesic soliton behavior. <i>Physica D: Nonlinear Phenomena</i> , 2001, 150, 237-263.	1.3	34
30	Numerical diffusion for flow-aligned unstructured grids with application to estuarine modeling. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 72, 1117-1145.	0.9	34
31	Modeling the tidal and sub-tidal hydrodynamics in a shallow, micro-tidal estuary. <i>Ocean Modelling</i> , 2015, 89, 29-44.	1.0	34
32	Sediment resuspension and the generation of intermediate nepheloid layers by shoaling internal bores. <i>Journal of Marine Systems</i> , 2017, 170, 31-41.	0.9	32
33	Reducing numerical diffusion in interfacial gravity wave simulations. <i>International Journal for Numerical Methods in Fluids</i> , 2005, 49, 301-329.	0.9	31
34	Mitigating horizontal divergence checker-board oscillations on unstructured triangular C-grids for nonlinear hydrostatic and nonhydrostatic flows. <i>Ocean Modelling</i> , 2013, 69, 64-78.	1.0	28
35	Long-Term Earth-Moon Evolution With High-Level Orbit and Ocean Tide Models. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006875.	1.5	28
36	A New Hybrid Model for Coastal Simulations. <i>Oceanography</i> , 2006, 19, 64-77.	0.5	28

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37	Numerical modeling of aquaculture dissolved waste transport in a coastal embayment. <i>Environmental Fluid Mechanics</i> , 2011, 11, 329-352.	0.7	27
38	Strong turbulent mixing induced by internal bores interacting with internal tide-driven vertically sheared flow. <i>Geophysical Research Letters</i> , 2016, 43, 2094-2101.	1.5	23
39	Dynamics and Energetics of Trapped Diurnal Internal Kelvin Waves around a Midlatitude Island. <i>Journal of Physical Oceanography</i> , 2017, 47, 2479-2498.	0.7	23
40	The effects of intensive aquaculture on nutrient residence time and transport in a coastal embayment. <i>Environmental Fluid Mechanics</i> , 2018, 18, 1321-1349.	0.7	23
41	Buoyant formation number of a starting buoyant jet. <i>Physics of Fluids</i> , 2009, 21, .	1.6	22
42	Remotely sensed river surface features compared with modeling and in situ measurements. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	21
43	Large-eddy simulation of starting buoyant jets. <i>Environmental Fluid Mechanics</i> , 2011, 11, 591-609.	0.7	21
44	A nonhydrostatic, isopycnal-coordinate ocean model for internal waves. <i>Ocean Modelling</i> , 2014, 83, 118-144.	1.0	21
45	Sediment transport dynamics near a river inflow in a large alpine lake. <i>Limnology and Oceanography</i> , 2015, 60, 1195-1211.	1.6	21
46	How we compute $\langle N \rangle$ matters to estimates of mixing in stratified flows. <i>Journal of Fluid Mechanics</i> , 2017, 831, .	1.4	21
47	Resolving high-frequency internal waves generated at an isolated coral atoll using an unstructured grid ocean model. <i>Ocean Modelling</i> , 2018, 122, 67-84.	1.0	20
48	Frontogenesis and Frontal Progression of a Trapping-Generated Estuarine Convergence Front and Its Influence on Mixing and Stratification. <i>Estuaries and Coasts</i> , 2012, 35, 665-681.	1.0	18
49	Three-Dimensional Modeling of Fine Sediment Transport by Waves and Currents in a Shallow Estuary. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4177-4199.	1.0	18
50	Observations of Near-Bed Shear Stress in a Shallow, Wave- and Current-Driven Flow. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 6323-6344.	1.0	18
51	An observational and numerical study of river plume dynamics in Otsuchi Bay, Japan. <i>Journal of Oceanography</i> , 2016, 72, 3-21.	0.7	17
52	Examining Breaking Internal Waves on a Shelf Slope Using Numerical Simulations. <i>Oceanography</i> , 2012, 25, 132-139.	0.5	16
53	Reconstruction of vector fields for semi-Lagrangian advection on unstructured, staggered grids. <i>Ocean Modelling</i> , 2011, 40, 52-71.	1.0	15
54	Local versus volume-integrated turbulence and mixing in breaking internal waves on slopes. <i>Journal of Fluid Mechanics</i> , 2017, 815, 169-198.	1.4	15

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55	The effects of particle clustering on hindered settling in high-concentration particle suspensions. <i>Journal of Fluid Mechanics</i> , 2021, 920, .	1.4	15
56	Stability and consistency of nonhydrostatic free-surface models using the semi-implicit method. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 72, 550-582.	0.9	13
57	Sediment-Induced Stratification in an Estuarine Bottom Boundary Layer. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC016022.	1.0	12
58	Competing flow and collision effects in a monodispersed liquid-solid fluidized bed at a moderate Archimedes number. <i>Journal of Fluid Mechanics</i> , 2021, 927, .	1.4	12
59	Numerical investigation of split flows by gravity currents into two-layered stratified water bodies. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5254-5271.	1.0	10
60	Three-dimensional wave-coupled hydrodynamics modeling in South San Francisco Bay. <i>Computers and Geosciences</i> , 2015, 85, 10-21.	2.0	9
61	Moving grid method for numerical simulation of stratified flows. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 71, 1524-1545.	0.9	8
62	Using an Isohaline Flux Analysis to Predict the Salt Content in an Unsteady Estuary. <i>Journal of Physical Oceanography</i> , 2017, 47, 2811-2828.	0.7	8
63	Bottom Drag Varies Seasonally With Biological Roughness. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088425.	1.5	8
64	Improving Nonlinear and Nonhydrostatic Ocean Lee Wave Drag Parameterizations. <i>Journal of Physical Oceanography</i> , 2020, 50, 2417-2435.	0.7	8
65	Connecting Process Models of Topographic Wave Drag to Global Eddy General Circulation Models. <i>Oceanography</i> , 2019, 32, 146-155.	0.5	8
66	Behavior of a wave-driven buoyant surface jet on a coral reef. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4088-4109.	1.0	6
67	Evaluation of the Delta Simulation Model-2 in Computing Tidally Driven Flows in the Sacramento-San Joaquin Delta. <i>San Francisco Estuary and Watershed Science</i> , 2018, 16, .	0.2	6
68	Modeling Sedimentation Dynamics of Sediment-Laden River Intrusions in a Rotationally-Influenced, Stratified Lake. <i>Water Resources Research</i> , 2018, 54, 4084-4107.	1.7	6
69	A framework for seamless one-way nesting of internal wave-resolving ocean models. <i>Ocean Modelling</i> , 2019, 143, 101462.	1.0	6
70	Comparison of the properties of segregated layers in a bidispersed fluidized bed to those of a monodispersed fluidized bed. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	6
71	CFD-accelerated bioreactor optimization: reducing the hydrodynamic parameter space. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 456-464.	1.2	6
72	Modeling Intrajunction Dispersion at a Well-Mixed Tidal River Junction. <i>Journal of Hydraulic Engineering</i> , 2016, 142, 04016019.	0.7	5

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73	A three-dimensional numerical study of river plume mixing processes in Otsuchi Bay, Japan. <i>Journal of Oceanography</i> , 2018, 74, 169-186.	0.7	5
74	Internal Wave Breaking Dynamics and Associated Mixing in the Coastal Ocean. , 2019, , 548-554.		5
75	Cohesive Sediment Erosion in a Combined Wave&Current Boundary Layer. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016655.	1.0	5
76	Dynamics of barotropic low-frequency fluctuations in San Francisco Bay during upwelling. <i>Continental Shelf Research</i> , 2013, 65, 81-96.	0.9	4
77	Time Accuracy of Pressure Methods for Nonhydrostatic Free-Surface Flows. , 2006, , 419.		3
78	Dispersion Mechanisms of a Tidal River Junction in the Sacramento&San Joaquin Delta, California. <i>San Francisco Estuary and Watershed Science</i> , 2014, 12, 1-23.	0.2	3
79	On the Variability of Floc Characteristics in a Shallow Estuary. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	3
80	High-Resolution Simulations of Nonlinear Internal Gravity Waves in the South China Sea. , 2008, , .		2
81	Phase&Resolved Wave Boundary Layer Dynamics in a Shallow Estuary. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092251.	1.5	1
82	Seasonal particle responses to near&bed shear stress in a shallow, wave&and current&driven environment. <i>Limnology and Oceanography Letters</i> , 0, , .	1.6	1
83	Analysis of Stratified Flow and Separation over Complex Bathymetry in a Field-Scale Estuarine Model. , 2010, , .		0
84	A high-order spectral method for effective simulation of surface waves interacting with an internal wave of large amplitude. <i>Ocean Modelling</i> , 2022, 173, 101996.	1.0	0
85	On Internal Tides Driving Residual Currents and Upwelling on an Island. <i>Journal of Geophysical Research: Oceans</i> , 0, , .	1.0	0