

Alexander Horner-Devine

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,572
citations

361413

20
h-index

315739

38
g-index

59
all docs

59
docs citations

59
times ranked

1340
citing authors

#	ARTICLE	IF	CITATIONS
1	Channel Conveyance Variability can Influence Flood Risk as Much as Streamflow Variability in Western Washington State. <i>Water Resources Research</i> , 2022, 58, .	4.2	9
2	Seasonal Changes in Structure and Dynamics in an Urbanized Salt Wedge Estuary. <i>Estuaries and Coasts</i> , 2021, 44, 589-607.	2.2	7
3	The Role of Sand in Wave Boundary Layers Over Primarily Muddy Seabeds: Implications for Wave-Supported Gravity Flows. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016621.	2.6	2
4	Surface Turbulence Reveals Riverbed Drag Coefficient. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092326.	4.0	2
5	The evolution of plume fronts in the Rhine region of freshwater influence. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2019JC015927.	2.6	5
6	Observations of Multiple Internal Wave Packets in a Tidal River Plume. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016575.	2.6	3
7	River Plume Liftoff Dynamics and Surface Expressions. <i>Water Resources Research</i> , 2020, 56, e2019WR026475.	4.2	5
8	The Formation of Turbidity Maximum Zones by Minor Axis Tidal Straining in Regions of Freshwater Influence. <i>Journal of Physical Oceanography</i> , 2020, 50, 1265-1287.	1.7	5
9	The use of a morphological acceleration factor in the simulation of large-scale fluvial morphodynamics. <i>Geomorphology</i> , 2020, 356, 107088.	2.6	15
10	A Conceptual Model of a River Plume in the Surf Zone. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8060-8078.	2.6	10
11	The role of periodically varying discharge on river plume structure and transport. <i>Continental Shelf Research</i> , 2018, 158, 15-25.	1.8	13
12	Cross-shore stratified tidal flow seaward of a mega-nourishment. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 200, 59-70.	2.1	1
13	The Influence of Wind and Waves on Spreading and Mixing in the Fraser River Plume. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6818-6840.	2.6	18
14	Two-layer hydraulics at the river-ocean interface. <i>Journal of Fluid Mechanics</i> , 2018, 856, 633-672.	3.4	5
15	The Influence of Tide and Wind on the Propagation of Fronts in a Shallow River Plume. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5426-5442.	2.6	17
16	Wave Generation of Gravity-Driven Sediment Flows on a Predominantly Sandy Seabed. <i>Geophysical Research Letters</i> , 2018, 45, 7634-7645.	4.0	24
17	Airborne LiDAR Measurements and Model Simulations of Tides, Waves, and Surface Slope at the Mouth of the Columbia River. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 7038-7048.	6.3	5
18	Lobe-left instability in the buoyant gravity current generated by estuarine outflow. <i>Geophysical Research Letters</i> , 2017, 44, 5001-5007.	4.0	18

#	ARTICLE	IF	CITATIONS
19	The impact of storms and stratification on sediment transport in the nearshore region of freshwater influence. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4456-4477.	2.6	23
20	Cross-shore transport of nearshore sediment by river plume frontal pumping. <i>Geophysical Research Letters</i> , 2017, 44, 6343-6351.	4.0	14
21	On the dynamics of turbulence near a free surface. <i>Journal of Fluid Mechanics</i> , 2017, 821, 248-265.	3.4	13
22	Experimental investigation of large-scale vortices in a freely spreading gravity current. <i>Physics of Fluids</i> , 2017, 29, 106603.	4.0	13
23	10.1063/1.5006176.1. , 2017, , .		0
24	Influence of Subsurface Stratification on Turbulence and Aeration in a Tidal River. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 1975-1978.	3.1	2
25	Small Scale Bedform Types off the South-Holland Coast. <i>Journal of Coastal Research</i> , 2016, 75, 423-426.	0.3	2
26	Structure of turbulence and sediment stratification in wave-supported mud layers. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 2430-2448.	2.6	26
27	The Sensitivity of Salt Wedge Estuaries to Channel Geometry. <i>Journal of Physical Oceanography</i> , 2015, 45, 3169-3183.	1.7	11
28	Mixing and Transport in Coastal River Plumes. <i>Annual Review of Fluid Mechanics</i> , 2015, 47, 569-594.	25.0	298
29	Wave breaking turbulence at the offshore front of the Columbia River Plume. <i>Geophysical Research Letters</i> , 2014, 41, 8987-8993.	4.0	21
30	Offshore spreading of buoyant bulge from numerical simulations and laboratory experiments. , 2014, , .		0
31	The role of wind in the near field and midfield of a river plume. <i>Geophysical Research Letters</i> , 2014, 41, 5132-5138.	4.0	24
32	Middle shoreface sand transport under the influence of a river plume. <i>Journal of Coastal Research</i> , 2014, 70, 182-186.	0.3	0
33	Laboratory Investigation of the Impact of Lateral Spreading on Buoyancy Flux in a River Plume. <i>Journal of Physical Oceanography</i> , 2013, 43, 2588-2610.	1.7	33
34	Turbulent kinetic energy and coherent structures in a tidal river. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6965-6981.	2.6	28
35	Rapid sediment removal from the Columbia River plume near field. <i>Continental Shelf Research</i> , 2012, 35, 16-28.	1.8	20
36	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.	2.2	18

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37	Estimation of In Situ 3-D Particle Distributions From a Stereo Laser Imaging Profiler. IEEE Journal of Oceanic Engineering, 2011, 36, 586-601.	3.8	0
38	Infrared-Based Measurements of Velocity, Turbulent Kinetic Energy, and Dissipation at the Water Surface in a Tidal River. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 849-853.	3.1	50
39	A two-color optical method for determining layer thickness in two interacting buoyant plumes. Experiments in Fluids, 2011, 50, 1235-1245.	2.4	17
40	An Autonomous Open-Ocean Stereoscopic PIV Profiler. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1362-1380.	1.3	18
41	Mixing layer dynamics in separated flow over an estuarine sill with variable stratification. Journal of Geophysical Research, 2010, 115, .	3.3	9
42	Multiple trophic levels fueled by recirculation in the Columbia River plume. Geophysical Research Letters, 2010, 37, .	4.0	36
43	River Influences on Shelf Ecosystems: Introduction and synthesis. Journal of Geophysical Research, 2010, 115, .	3.3	135
44	Asymmetry of Columbia River tidal plume fronts. Journal of Marine Systems, 2009, 78, 442-459.	2.1	44
45	A conceptual model of the strongly tidal Columbia River plume. Journal of Marine Systems, 2009, 78, 460-475.	2.1	120
46	Seasonal patterns of coarse sediment transport on a mixed sand and gravel beach due to vessel wakes, wind waves, and tidal currents. Marine Geology, 2009, 259, 73-85.	2.1	57
47	The bulge circulation in the Columbia River plume. Continental Shelf Research, 2009, 29, 234-251.	1.8	99
48	Vertical boil propagation from a submerged estuarine sill. Geophysical Research Letters, 2009, 36, .	4.0	44
49	Remotely sensed river surface features compared with modeling and in situ measurements. Journal of Geophysical Research, 2009, 114, .	3.3	21
50	Particle resuspension in the Columbia River plume near field. Journal of Geophysical Research, 2009, 114, .	3.3	21
51	Temporal and spatial variability of vertical salt flux in a highly stratified estuary. Journal of Geophysical Research, 2008, 113, .	3.3	32
52	Evidence for the inherent unsteadiness of a river plume: Satellite observations of the Niagara River discharge. Limnology and Oceanography, 2008, 53, 2731-2737.	3.1	22
53	Laboratory experiments simulating a coastal river inflow. Journal of Fluid Mechanics, 2006, 555, 203.	3.4	104
54	Velocity, density and transport measurements in rotating, stratified flows. Experiments in Fluids, 2006, 41, 559-571.	2.4	17