

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	Mixing and Transport in Coastal River Plumes. <i>Annual Review of Fluid Mechanics</i> , 2015, 47, 569-594.	25.0	298
2	River Influences on Shelf Ecosystems: Introduction and synthesis. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	135
3	A conceptual model of the strongly tidal Columbia River plume. <i>Journal of Marine Systems</i> , 2009, 78, 460-475.	2.1	120
4	Laboratory experiments simulating a coastal river inflow. <i>Journal of Fluid Mechanics</i> , 2006, 555, 203.	3.4	104
5	The bulge circulation in the Columbia River plume. <i>Continental Shelf Research</i> , 2009, 29, 234-251.	1.8	99
6	Seasonal patterns of coarse sediment transport on a mixed sand and gravel beach due to vessel wakes, wind waves, and tidal currents. <i>Marine Geology</i> , 2009, 259, 73-85.	2.1	57
7	Infrared-Based Measurements of Velocity, Turbulent Kinetic Energy, and Dissipation at the Water Surface in a Tidal River. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011, 8, 849-853.	3.1	50
8	Asymmetry of Columbia River tidal plume fronts. <i>Journal of Marine Systems</i> , 2009, 78, 442-459.	2.1	44
9	Vertical boil propagation from a submerged estuarine sill. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	44
10	Multiple trophic levels fueled by recirculation in the Columbia River plume. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	36
11	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
12	Temporal and spatial variability of vertical salt flux in a highly stratified estuary. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	32
13	Turbulent kinetic energy and coherent structures in a tidal river. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6965-6981.	2.6	28
14	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
15	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
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	The impact of storms and stratification on sediment transport in the <scp>R</scp>hine region of freshwater influence. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4456-4477.	2.6	23
18	Evidence for the inherent unsteadiness of a river plume: Satellite observations of the Niagara River discharge. <i>Limnology and Oceanography</i> , 2008, 53, 2731-2737.	3.1	22

#	ARTICLE	IF	CITATIONS
19	Remotely sensed river surface features compared with modeling and in situ measurements. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	21
20	Particle resuspension in the Columbia River plume near field. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	21
21	Wave breaking turbulence at the offshore front of the Columbia River Plume. <i>Geophysical Research Letters</i> , 2014, 41, 8987-8993.	4.0	21
22	Rapid sediment removal from the Columbia River plume near field. <i>Continental Shelf Research</i> , 2012, 35, 16-28.	1.8	20
23	An Autonomous Open-Ocean Stereoscopic PIV Profiler. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 1362-1380.	1.3	18
24	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
25	Lobe-Instability in the buoyant gravity current generated by estuarine outflow. <i>Geophysical Research Letters</i> , 2017, 44, 5001-5007.	4.0	18
26	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
27	Velocity, density and transport measurements in rotating, stratified flows. <i>Experiments in Fluids</i> , 2006, 41, 559-571.	2.4	17
28	A two-color optical method for determining layer thickness in two interacting buoyant plumes. <i>Experiments in Fluids</i> , 2011, 50, 1235-1245.	2.4	17
29	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
30	The use of a morphological acceleration factor in the simulation of large-scale fluvial morphodynamics. <i>Geomorphology</i> , 2020, 356, 107088.	2.6	15
31	Cross-shore transport of nearshore sediment by river plume frontal pumping. <i>Geophysical Research Letters</i> , 2017, 44, 6343-6351.	4.0	14
32	On the dynamics of turbulence near a free surface. <i>Journal of Fluid Mechanics</i> , 2017, 821, 248-265.	3.4	13
33	Experimental investigation of large-scale vortices in a freely spreading gravity current. <i>Physics of Fluids</i> , 2017, 29, 106603.	4.0	13
34	The role of periodically varying discharge on river plume structure and transport. <i>Continental Shelf Research</i> , 2018, 158, 15-25.	1.8	13
35	The Sensitivity of Salt Wedge Estuaries to Channel Geometry. <i>Journal of Physical Oceanography</i> , 2015, 45, 3169-3183.	1.7	11
36	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

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37	Mixing layer dynamics in separated flow over an estuarine sill with variable stratification. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	9
38	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
39	Seasonal Changes in Structure and Dynamics in an Urbanized Salt Wedge Estuary. <i>Estuaries and Coasts</i> , 2021, 44, 589-607.	2.2	7
40	Two-layer hydraulics at the river-ocean interface. <i>Journal of Fluid Mechanics</i> , 2018, 856, 633-672.	3.4	5
41	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
42	River Plume Lutoff Dynamics and Surface Expressions. <i>Water Resources Research</i> , 2020, 56, e2019WR026475.	4.2	5
43	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
44	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
45	Observations of Multiple Internal Wave Packets in a Tidal River Plume. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016575.	2.6	3
46	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
47	Small Scale Bedform Types off the South-Holland Coast. <i>Journal of Coastal Research</i> , 2016, 75, 423-426.	0.3	2
48	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
49	Surface Turbulence Reveals Riverbed Drag Coefficient. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092326.	4.0	2
50	Cross-shore stratified tidal flow seaward of a mega-nourishment. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 200, 59-70.	2.1	1
51	Estimation of In Situ 3-D Particle Distributions From a Stereo Laser Imaging Profiler. <i>IEEE Journal of Oceanic Engineering</i> , 2011, 36, 586-601.	3.8	0
52	Offshore spreading of buoyant bulge from numerical simulations and laboratory experiments. , 2014, , .		0
53	Middle shoreface sand transport under the influence of a river plume. <i>Journal of Coastal Research</i> , 2014, 70, 182-186.	0.3	0
54	10.1063/1.5006176.1. , 2017, , .		0