David K Ralston

List of Publications by Year
in descending order

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58	2,220	172386	233338
papers	citations	29 h-index	45 g-index

64	64	64	2053
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Frontogenesis, Mixing, and Stratification in Estuarine Channels with Curvature. Journal of Physical Oceanography, 2022, 52, 1333-1350.	0.7	3
2	Projected effects of climate change on Pseudo-nitzschia bloom dynamics in the Gulf of Maine. Journal of Marine Systems, 2022, 230, 103737.	0.9	7
3	Impacts of Storm Surge Barriers on Drag, Mixing, and Exchange Flow in a Partially Mixed Estuary. Journal of Geophysical Research: Oceans, 2022, 127, .	1.0	7
4	Rapid tidal marsh development in anthropogenic backwaters. Earth Surface Processes and Landforms, 2021, 46, 554-572.	1.2	9
5	Shifting Sediment Dynamics in the Coos Bay Estuary in Response to 150 Years of Modification. Journal of Geophysical Research: Oceans, 2021, 126, .	1.0	8
6	Sediment Budget Estimates for a Highly Impacted Embayment with Extensive Wetland Loss. Estuaries and Coasts, 2021, 44, 608-626.	1.0	8
7	Watershed Suspended Sediment Supply and Potential Impacts of Dam Removals for an Estuary. Estuaries and Coasts, 2021, 44, 1195-1215.	1.0	9
8	High and Variable Drag in a Sinuous Estuary With Intermittent Stratification. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017327.	1.0	3
9	Investigating Pseudo-nitzschia australis introduction to the Gulf of Maine with observations and models. Continental Shelf Research, 2021, 228, 104493.	0.9	12
10	Modeling harmful algal blooms in a changing climate. Harmful Algae, 2020, 91, 101729.	2.2	73
11	Estuarine Exchange Flow Variability in a Seasonal, Segmented Estuary. Journal of Physical Oceanography, 2020, 50, 595-613.	0.7	19
12	Flow Separation and Increased Drag Coefficient in Estuarine Channels With Curvature. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016267.	1.0	13
13	Mechanisms of Exchange Flow in an Estuary With a Narrow, Deep Channel and Wide, Shallow Shoals. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016092.	1.0	11
14	Turbidity Hysteresis in an Estuary and Tidal River Following an Extreme Discharge Event. Geophysical Research Letters, 2020, 47, e2020GL088005.	1.5	5
15	Using Tracer Variance Decay to Quantify Variability of Salinity Mixing in the Hudson River Estuary. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016096.	1.0	9
16	Pseudo-nitzschia bloom dynamics in the Gulf of Maine: 2012â€“2016. Harmful Algae, 2019, 88, 101656.	2.2	34
17	The future of coastal and estuarine modeling: Findings from a workshop. Ocean Modelling, 2019, 143, 101458.	1.0	72
18	Effects of Locally Generated Wind Waves on the Momentum Budget and Subtidal Exchange in a Coastal Plain Estuary. Journal of Geophysical Research: Oceans, 2019, 124, 1005-1028.	1.0	13

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19	Reversed Lateral Circulation in a Sharp Estuarine Bend with Weak Stratification. Journal of Physical Oceanography, 2019, 49, 1619-1637.	0.7	23
20	Response to Channel Deepening of the Salinity Intrusion, Estuarine Circulation, and Stratification in an Urbanized Estuary. Journal of Geophysical Research: Oceans, 2019, 124, 4784-4802.	1.0	44
21	Seasonal variation in sediment transport and deposition on a muddy clinoform in the Yellow Sea. Continental Shelf Research, 2019, 179, 37-51.	0.9	24
22	Bigger Tides, Less Flooding: Effects of Dredging on Barotropic Dynamics in a Highly Modified Estuary. Journal of Geophysical Research: Oceans, 2019, 124, 196-211.	1.0	92
23	Wave Generation, Dissipation, and Disequilibrium in an Embayment With Complex Bathymetry. Journal of Geophysical Research: Oceans, 2018, 123, 7856-7876.	1.0	17
24	Acoustic propagation at low-to-mid-frequencies in the Connecticut River. Proceedings of Meetings on Acoustics, 2018, , .	0.3	3
25	Sediment Trapping in Estuaries. Annual Review of Marine Science, 2018, 10, 371-395.	5.1	181
26	Historical sources of polychlorinated biphenyls to the sediment of the New York/New Jersey Harbor. Chemosphere, 2017, 169, 450-459.	4.2	30
27	Salt wedge dynamics lead to enhanced sediment trapping within side embayments in highâ€energy estuaries. Journal of Geophysical Research: Oceans, 2017, 122, 2226-2242.	1.0	25
28	Hydraulics and mixing in a laterally divergent channel of a highly stratified estuary. Journal of Geophysical Research: Oceans, 2017, 122, 4743-4760.	1.0	18
29	Turbulent and numerical mixing in a salt wedge estuary: Dependence on grid resolution, bottom roughness, and turbulence closure. Journal of Geophysical Research: Oceans, 2017, 122, 692-712.	1.0	48
30	Bloom termination of the toxic dinoflagellate Alexandrium catenella: Vertical migration behavior, sediment infiltration, and benthic cyst yield. Limnology and Oceanography, 2017, 62, 2829-2849.	1.6	37
31	Sediment Transport Time Scales and Trapping Efficiency in a Tidal River. Journal of Geophysical Research F: Earth Surface, 2017, 122, 2042-2063.	1.0	37
32	A crab swarm at an ecological hotspot: patchiness and population density from AUV observations at a coastal, tropical seamount. PeerJ, 2016, 4, e1770.	0.9	17
33	Progress and Challenges in Coupled Hydrodynamic-Ecological Estuarine Modeling. Estuaries and Coasts, 2016, 39, 311-332.	1.0	62
34	Rapid growth and concerted sexual transitions by a bloom of the harmful dinoflagellate Alexandrium fundyense (Dinophyceae). Limnology and Oceanography, 2015, 60, 2059-2078.	1.6	49
35	Contribution of Sand-Associated Enterococci to Dry Weather Water Quality. Environmental Science & Technology, 2015, 49, 451-458.	4.6	14
36	Temperature and Residence Time Controls on an Estuarine Harmful Algal Bloom: Modeling Hydrodynamics and Alexandrium fundyense in Nauset Estuary. Estuaries and Coasts, 2015, 38, 2240-2258.	1.0	35

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37	Temperature dependence of an estuarine harmful algal bloom: Resolving interannual variability in bloom dynamics using a degreeâ€day approach. Limnology and Oceanography, 2014, 59, 1112-1126.	1.6	48
38	Observations and predictions of summertime winds on the Skagit tidal flats, Washington. Continental Shelf Research, 2013, 60, S13-S21.	0.9	11
39	Waves in the Red Sea: Response to monsoonal and mountain gap winds. Continental Shelf Research, 2013, 65, 1-13.	0.9	44
40	Effects of estuarine and fluvial processes on sediment transport over deltaic tidal flats. Continental Shelf Research, 2013, 60, S40-S57.	0.9	42
41	Sediment transport due to extreme events: The Hudson River estuary after tropical storms Irene and Lee. Geophysical Research Letters, 2013, 40, 5451-5455.	1.5	65
42	Estuarine Exchange Flow Quantified with Isohaline Coordinates: Contrasting Long and Short Estuaries. Journal of Physical Oceanography, 2012, 42, 748-763.	0.7	48
43	Bathymetric controls on sediment transport in the Hudson River estuary: Lateral asymmetry and frontal trapping. Journal of Geophysical Research, 2012, 117, .	3.3	81
44	Dynamics of Alexandrium fundyense blooms and shellfish toxicity in the Nauset Marsh System of Cape Cod (Massachusetts, USA). Harmful Algae, 2011, 12, 26-38.	2.2	45
45	Climate Change, Precipitation and Impacts on an Estuarine Refuge from Disease. PLoS ONE, 2011, 6, e18849.	1.1	62
46	Structure, variability, and salt flux in a strongly forced salt wedge estuary. Journal of Geophysical Research, 2010, 115, .	3.3	92
47	Turbulent mixing in a strongly forced salt wedge estuary. Journal of Geophysical Research, 2010, 115, .	3.3	33
48	Sediment transport and deposition on a riverâ€dominated tidal flat: An idealized model study. Journal of Geophysical Research, 2010, 115, .	3.3	20
49	The Temporal Response of the Length of a Partially Stratified Estuary to Changes in River Flow and Tidal Amplitude. Journal of Physical Oceanography, 2009, 39, 915-933.	0.7	68
50	Episodic and Long-Term Sediment Transport Capacity in The Hudson River Estuary. Estuaries and Coasts, 2009, 32, 1130-1151.	1.0	30
51	Lateral circulation and sediment transport driven by axial winds in an idealized, partially mixed estuary. Journal of Geophysical Research, 2009, 114, .	3.3	32
52	Quantifying vertical mixing in estuaries. Environmental Fluid Mechanics, 2008, 8, 495-509.	0.7	59
53	Subtidal Salinity and Velocity in the Hudson River Estuary: Observations and Modeling. Journal of Physical Oceanography, 2008, 38, 753-770.	0.7	153
54	Tidal and meteorological forcing of sediment transport in tributary mudflat channels. Continental Shelf Research, 2007, 27, 1510-1527.	0.9	49

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55	Shear and turbulence production across subtidal channels. Journal of Marine Research, 2006, 64, 147-171.	0.3	12
56	The Scaling and Structure of the Estuarine Bottom Boundary Layer. Journal of Physical Oceanography, 2005, 35, 55-71.	0.7	83
57	Stratification and turbulence in subtidal channels through intertidal mudflats. Journal of Geophysical Research, 2005, 110, .	3.3	27
58	Longitudinal dispersion and lateral circulation in the intertidal zone. Journal of Geophysical Research, 2005, 110, .	3.3	40