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	Sediment Trapping in Estuaries. Annual Review of Marine Science, 2018, 10, 371-395.	5.1	181
2	Subtidal Salinity and Velocity in the Hudson River Estuary: Observations and Modeling. Journal of Physical Oceanography, 2008, 38, 753-770.	0.7	153
3	Structure, variability, and salt flux in a strongly forced salt wedge estuary. Journal of Geophysical Research, 2010, 115, .	3.3	92
4	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
5	The Scaling and Structure of the Estuarine Bottom Boundary Layer. Journal of Physical Oceanography, 2005, 35, 55-71.	0.7	83
6	Bathymetric controls on sediment transport in the Hudson River estuary: Lateral asymmetry and frontal trapping. Journal of Geophysical Research, 2012, 117, .	3.3	81
7	Modeling harmful algal blooms in a changing climate. Harmful Algae, 2020, 91, 101729.	2.2	73
8	The future of coastal and estuarine modeling: Findings from a workshop. Ocean Modelling, 2019, 143, 101458.	1.0	72
9	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
10	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
11	Progress and Challenges in Coupled Hydrodynamic-Ecological Estuarine Modeling. Estuaries and Coasts, 2016, 39, 311-332.	1.0	62
12	Climate Change, Precipitation and Impacts on an Estuarine Refuge from Disease. PLoS ONE, 2011, 6, e18849.	1.1	62
13	Quantifying vertical mixing in estuaries. Environmental Fluid Mechanics, 2008, 8, 495-509.	0.7	59
14	Tidal and meteorological forcing of sediment transport in tributary mudflat channels. Continental Shelf Research, 2007, 27, 1510-1527.	0.9	49
15	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
16	Estuarine Exchange Flow Quantified with Isohaline Coordinates: Contrasting Long and Short Estuaries. Journal of Physical Oceanography, 2012, 42, 748-763.	0.7	48
17	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
18	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

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19	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
20	Waves in the Red Sea: Response to monsoonal and mountain gap winds. Continental Shelf Research, 2013, 65, 1-13.	0.9	44
21	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
22	Effects of estuarine and fluvial processes on sediment transport over deltaic tidal flats. Continental Shelf Research, 2013, 60, S40-S57.	0.9	42
23	Longitudinal dispersion and lateral circulation in the intertidal zone. Journal of Geophysical Research, 2005, 110, .	3.3	40
24	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
25	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
26	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
27	Pseudo-nitzschia bloom dynamics in the Gulf of Maine: 2012â€“2016. Harmful Algae, 2019, 88, 101656.	2.2	34
28	Turbulent mixing in a strongly forced salt wedge estuary. Journal of Geophysical Research, 2010, 115, .	3.3	33
29	Lateral circulation and sediment transport driven by axial winds in an idealized, partially mixed estuary. Journal of Geophysical Research, 2009, 114, .	3.3	32
30	Episodic and Long-Term Sediment Transport Capacity in The Hudson River Estuary. Estuaries and Coasts, 2009, 32, 1130-1151.	1.0	30
31	Historical sources of polychlorinated biphenyls to the sediment of the New York/New Jersey Harbor. Chemosphere, 2017, 169, 450-459.	4.2	30
32	Stratification and turbulence in subtidal channels through intertidal mudflats. Journal of Geophysical Research, 2005, 110, .	3.3	27
33	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
34	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
35	Reversed Lateral Circulation in a Sharp Estuarine Bend with Weak Stratification. Journal of Physical Oceanography, 2019, 49, 1619-1637.	0.7	23
36	Sediment transport and deposition on a riverâ€dominated tidal flat: An idealized model study. Journal of Geophysical Research, 2010, 115, .	3.3	20

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37	Estuarine Exchange Flow Variability in a Seasonal, Segmented Estuary. Journal of Physical Oceanography, 2020, 50, 595-613.	0.7	19
38	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
39	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
40	Wave Generation, Dissipation, and Disequilibrium in an Embayment With Complex Bathymetry. Journal of Geophysical Research: Oceans, 2018, 123, 7856-7876.	1.0	17
41	Contribution of Sand-Associated Enterococci to Dry Weather Water Quality. Environmental Science & Technology, 2015, 49, 451-458.	4.6	14
42	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
43	Flow Separation and Increased Drag Coefficient in Estuarine Channels With Curvature. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016267.	1.0	13
44	Shear and turbulence production across subtidal channels. Journal of Marine Research, 2006, 64, 147-171.	0.3	12
45	Investigating Pseudo-nitzschia australis introduction to the Gulf of Maine with observations and models. Continental Shelf Research, 2021, 228, 104493.	0.9	12
46	Observations and predictions of summertime winds on the Skagit tidal flats, Washington. Continental Shelf Research, 2013, 60, S13-S21.	0.9	11
47	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
48	Rapid tidal marsh development in anthropogenic backwaters. Earth Surface Processes and Landforms, 2021, 46, 554-572.	1.2	9
49	Watershed Suspended Sediment Supply and Potential Impacts of Dam Removals for an Estuary. Estuaries and Coasts, 2021, 44, 1195-1215.	1.0	9
50	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
51	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
52	Sediment Budget Estimates for a Highly Impacted Embayment with Extensive Wetland Loss. Estuaries and Coasts, 2021, 44, 608-626.	1.0	8
53	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
54	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

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55	Turbidity Hysteresis in an Estuary and Tidal River Following an Extreme Discharge Event. Geophysical Research Letters, 2020, 47, e2020GL088005.	1.5	5
56	Acoustic propagation at low-to-mid-frequencies in the Connecticut River. Proceedings of Meetings on Acoustics, 2018, , .	0.3	3
57	High and Variable Drag in a Sinuous Estuary With Intermittent Stratification. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017327.	1.0	3
58	Frontogenesis, Mixing, and Stratification in Estuarine Channels with Curvature. Journal of Physical Oceanography, 2022, 52, 1333-1350.	0.7	3