Patricia L Wiberg

List of Publications by Year
in descending order

41 papers	2,729 citations	201674 27 h-index	315739 38 g-index
43 all docs	43 docs citations	43 times ranked	2371 citing authors

#	Article	IF	Citations
1	Calculations of the critical shear stress for motion of uniform and heterogeneous sediments. Water Resources Research, 1987, 23, 1471-1480.	4.2	465
2	Velocity distribution and bed roughness in high-gradient streams. Water Resources Research, 1991, 27, 825-838.	4.2	198
3	Calculating wave-generated bottom orbital velocities from surface-wave parameters. Computers and Geosciences, 2008, 34, 1243-1262.	4.2	198
4	Sediment resuspension and bed armoring during high bottom stress events on the northern California inner continental shelf: measurements and predictions. Continental Shelf Research, 1994, 14, 1191-1219.	1.8	165
5	Marsh Collapse Does Not Require Sea Level Rise. Oceanography, 2013, 26, 70-77.	1.0	149
6	A comparison of field data and theoretical models for wave-current interactions at the bed on the continental shelf. Continental Shelf Research, 1983, 2, 147-162.	1.8	121
7	Eddy correlation flux measurements: The sediment surface area that contributes to the flux. Limnology and Oceanography, 2007, 52, 1672-1684.	3.1	118
8	A two-dimensional, time-dependent model of suspended sediment transport and bed reworking for continental shelves. Computers and Geosciences, 2001, 27, 675-690.	4.2	105
9	Rates and Forcing of Marsh Edge Erosion in a Shallow Coastal Bay. Estuaries and Coasts, 2015, 38, 620-638.	2.2	90
10	Fluxes of water, sediments, and biogeochemical compounds in salt marshes. Ecological Processes, 2013, 2, .	3.9	82
11	A Perfect Storm: Formation and Potential for Preservation of Storm Beds on the Continental Shelf. Oceanography, 2000, 13, 93-99.	1.0	74
12	Approaches to quantifying long-term continental shelf sediment transport with an example from the Northern California STRESS mid-shelf site. Continental Shelf Research, 1997, 17, 1389-1418.	1.8	66
13	Wave Attenuation by Oyster Reefs in Shallow Coastal Bays. Estuaries and Coasts, 2019, 42, 331-347.	2.2	63
14	Relative importance of local and regional controls on coupled water, carbon, and energy fluxes. Advances in Water Resources, 2001, 24, 1103-1118.	3.8	62
15	Sedimentation and Boundary Changes of Virginia Salt Marshes. Estuarine, Coastal and Shelf Science, 1996, 42, 683-700.	2.1	53
16	Improving Predictions of Salt Marsh Evolution Through Better Integration of Data and Models. Annual Review of Marine Science, 2020, 12, 389-413.	11.6	49
17	Intense Storms Increase the Stability of Tidal Bays. Geophysical Research Letters, 2018, 45, 5491-5500.	4.0	48
18	Sediment transport on the Palos Verdes shelf over seasonal to decadal time scales. Continental Shelf Research, 2002, 22, 987-1004.	1.8	42

#	Article	IF	Citations
19	Sediment transport on the Palos Verdes shelf, California. Continental Shelf Research, 2010, 30, 761-780.	1.8	42
20	Prediction of the fate of p,pâ€²-DDE in sediment on the Palos Verdes shelf, California, USA. Continental Shelf Research, 2002, 22, 1025-1058.	1.8	41
21	Spatially explicit feedbacks between seagrass meadow structure, sediment and light: Habitat suitability for seagrass growth. Advances in Water Resources, 2016, 93, 315-325.	3.8	39
22	Tradeoffs among hydrodynamics, sediment fluxes and vegetation community in the Virginia Coast Reserve, USA. Estuarine, Coastal and Shelf Science, 2018, 210, 98-108.	2.1	39
23	Desorption of p,pâ€²-DDE from sediment during resuspension events on the Palos Verdes shelf, California: a modeling approach. Continental Shelf Research, 2002, 22, 1005-1023.	1.8	36
24	Seasonal variations in erodibility and sediment transport potential in a mesotidal channel-flat complex, Willapa Bay, WA. Continental Shelf Research, 2013, 60, S185-S197.	1.8	35
25	Linking Sediment Transport and Stratigraphy on the Continental Shelf. Oceanography, 1996, 9, 153-157.	1.0	35
26	The dynamics of subtidal poleward flows over a narrow continental shelf, Palos Verdes, CA. Continental Shelf Research, 2002, 22, 923-944.	1.8	34
27	Depth Affects Seagrass Restoration Success and Resilience to Marine Heat Wave Disturbance. Estuaries and Coasts, 2020, 43, 316-328.	2.2	34
28	Quantifying the distribution and influence of nonâ€uniform bed properties in shallow coastal bays. Limnology and Oceanography: Methods, 2015, 13, 746-762.	2.0	28
29	Writing a Rosetta Stone: Insights into Continental-Margin Sedimentary Processes and Strata. , 0, , 1-48.		21
30	Controls on Sediment Suspension, Flux, and Marsh Deposition near a Bay-Marsh Boundary. Estuaries and Coasts, 2019, 42, 403-424.	2.2	21
31	Processes Influencing Marsh Elevation Change in Low- and High-Elevation Zones of a Temperate Salt Marsh. Estuaries and Coasts, 2021, 44, 818-833.	2.2	19
32	Character, fate, and biological effects of contaminated, effluent-affected sediment on the Palos Verdes margin, southern California: an overview. Continental Shelf Research, 2002, 22, 835-840.	1.8	18
33	Quantifying Seasonal Seagrass Effects on Flow and Sediment Dynamics in a Backâ€Barrier Bay. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016547.	2.6	18
34	A theoretical investigation of boundary layer flow and bottom shear stress for smooth, transitional, and rough flow under waves. Journal of Geophysical Research, 1995, 100, 22667.	3.3	17
35	Exploring the Impacts of Seagrass on Coupled Marsh-Tidal Flat Morphodynamics. Frontiers in Environmental Science, 2018, 6, .	3.3	15
36	Acoustic measurements of the spatial and temporal structure of the near-bottom boundary layer in the 1990-1991 STRESS experiment. Continental Shelf Research, 1997, 17, 1271-1295.	1.8	14

#	Article	IF	Citations
37	Controls on the degree of fluvial incision of continental shelves. Computers and Geosciences, 2008, 34, 1381-1393.	4.2	10
38	Predicting benthic macroalgal abundance in shallow coastal lagoons from geomorphology and hydrologic flow patterns. Limnology and Oceanography, 2021, 66, 123-140.	3.1	7
39	Prediction of Margin Stratigraphy. , 0, , 459-529.		5
40	Seasonal growth and senescence of seagrass alters sediment accumulation rates and carbon burial in a coastal lagoon. Limnology and Oceanography, 2022, 67, 1931-1942.	3.1	3
41	Ecogeomorphology of Salt Marshes. , 2021, , .		0