

# Richard P Signell

## List of Publications by Year in descending order

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63  
papers

5,167  
citations

147726

31  
h-index

133188

59  
g-index

74  
all docs

74  
docs citations

74  
times ranked

4444  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cloud-Native Repositories for Big Scientific Data. <i>Computing in Science and Engineering</i> , 2021, 23, 26-35.	1.2	33
2	Science Storms the Cloud. <i>AGU Advances</i> , 2021, 2, e2020AV000354.	2.3	19
3	Spatial distribution of water level impacting back-barrier bays. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 1823-1838.	1.5	2
4	From the Oceans to the Cloud: Opportunities and Challenges for Data, Models, Computation and Workflows. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	18
5	Analysis and Visualization of Coastal Ocean Model Data in the Cloud. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 110.	1.2	8
6	Observations and a linear model of water level in an interconnected inlet-bay system. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2760-2780.	1.0	18
7	Dynamic Reusable Workflows for Ocean Science. <i>Journal of Marine Science and Engineering</i> , 2016, 4, 68.	1.2	1
8	Progress and Challenges in Coupled Hydrodynamic-Ecological Estuarine Modeling. <i>Estuaries and Coasts</i> , 2016, 39, 311-332.	1.0	62
9	Technical note: Harmonising metocean model data via standard web services within small research groups. <i>Ocean Science</i> , 2016, 12, 633-645.	1.3	5
10	Data management update for the integrated ocean observing system (IOOS). , 2014, , .		6
11	Investigating the importance of sediment resuspension in <i>Alexandrium fundyense</i> cyst population dynamics in the Gulf of Maine. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 103, 79-95.	0.6	32
12	Near-bottom circulation and dispersion of sediment containing <i>Alexandrium fundyense</i> cysts in the Gulf of Maine during 2010-2011. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 103, 96-111.	0.6	15
13	Advances in a Distributed Approach for Ocean Model Data Interoperability. <i>Journal of Marine Science and Engineering</i> , 2014, 2, 194-208.	1.2	10
14	Observations and predictions of summertime winds on the Skagit tidal flats, Washington. <i>Continental Shelf Research</i> , 2013, 60, S13-S21.	0.9	11
15	Characterizing wave- and current- induced bottom shear stress: U.S. middle Atlantic continental shelf. <i>Continental Shelf Research</i> , 2013, 52, 73-86.	0.9	48
16	Introduction to special section on The U.S. IOOS Coastal and Ocean Modeling Testbed. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6319-6328.	1.0	22
17	U.S. IOOS coastal and ocean modeling testbed: Inter-model evaluation of tides, waves, and hurricane surge in the Gulf of Mexico. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 5129-5172.	1.0	72
18	The US IOOS Coastal and Ocean Modeling Testbed for advancing research to applications. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
19	Building the IOOS® Data Management Subsystem. Marine Technology Society Journal, 2010, 44, 73-83.	0.3	2
20	Implementing the National Integrated Ocean Observing System (IOOS®)â€”From the Federal Agency Perspective. Marine Technology Society Journal, 2010, 44, 32-41.	0.3	5
21	Model Data Interoperability for the United States Integrated Ocean Observing System (IOOS)., 2010, , .		11
22	Highâ€”resolution mapping of Bora winds in the northern Adriatic Sea using synthetic aperture radar. Journal of Geophysical Research, 2010, 115, .	3.3	47
23	Automated Sensor Network to Advance Ocean Science. Eos, 2010, 91, 345-346.	0.1	32
24	Deposition and flux of sediment from the Po River, Italy: An idealized and wintertime numerical modeling study. Marine Geology, 2009, 260, 69-80.	0.9	46
25	Ocean forecasting in terrain-following coordinates: Formulation and skill assessment of the Regional Ocean Modeling System. Journal of Computational Physics, 2008, 227, 3595-3624.	1.9	1,032
26	Development of a three-dimensional, regional, coupled wave, current, and sediment-transport model. Computers and Geosciences, 2008, 34, 1284-1306.	2.0	641
27	Collaboration tools and techniques for large model datasets. Journal of Marine Systems, 2008, 69, 154-161.	0.9	31
28	Surface drift prediction in the Adriatic Sea using hyper-ensemble statistics on atmospheric, ocean and wave models: Uncertainties and probability distribution areas. Journal of Marine Systems, 2008, 69, 86-98.	0.9	39
29	Sediment dispersal in the northwestern Adriatic Sea. Journal of Geophysical Research, 2008, 113, .	3.3	84
30	Variational analysis of drifter positions and model outputs for the reconstruction of surface currents in the central Adriatic during fall 2002. Journal of Geophysical Research, 2008, 113, .	3.3	15
31	Blooms of the toxic dinoflagellate Alexandrium fundyense in the western Gulf of Maine in 1993 and 1994: A comparative modeling study. Continental Shelf Research, 2007, 27, 2486-2512.	0.9	13
32	Role of Sediment Resuspension in the Remobilization of Particulate-Phase Metals from Coastal Sediments. Environmental Science & Technology, 2007, 41, 2282-2288.	4.6	117
33	February 2003 marine atmospheric conditions and the bora over the northern Adriatic. Journal of Geophysical Research, 2007, 112, .	3.3	49
34	Surface drifter derived circulation in the northern and middle Adriatic Sea: Response to wind regime and season. Journal of Geophysical Research, 2007, 112, .	3.3	33
35	Measurements of storm and nonstorm circulation in the northern Adriatic: October 2002 Through April 2003. Journal of Geophysical Research, 2007, 112, .	3.3	20
36	Bora event variability and the role of air-sea feedback. Journal of Geophysical Research, 2007, 112, .	3.3	72

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37	Two-Way Air-Sea Coupling: A Study of the Adriatic. <i>Monthly Weather Review</i> , 2006, 134, 1465-1483.	0.5	67
38	Toxic Alexandrium blooms in the western Gulf of Maine: The plume advection hypothesis revisited. <i>Limnology and Oceanography</i> , 2005, 50, 328-345.	1.6	59
39	Assessment of wind quality for oceanographic modelling in semi-enclosed basins. <i>Journal of Marine Systems</i> , 2005, 53, 217-233.	0.9	143
40	Structure and variability of the Western Maine Coastal Current. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 2392-2410.	0.6	38
41	Modeling coastal current transport in the Gulf of Maine. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 2430-2449.	0.6	38
42	The kinematic and hydrographic structure of the Gulf of Maine Coastal Current. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 2369-2391.	0.6	156
43	Performance of four turbulence closure models implemented using a generic length scale method. <i>Ocean Modelling</i> , 2005, 8, 81-113.	1.0	588
44	Northern Adriatic response to a wintertime bora wind event. <i>Eos</i> , 2005, 86, 157.	0.1	69
45	The freshwater transport and dynamics of the western Maine coastal current. <i>Continental Shelf Research</i> , 2004, 24, 1339-1357.	0.9	63
46	Sediment Dynamics in the Adriatic Sea Investigated with Coupled Models. <i>Oceanography</i> , 2004, 17, 58-69.	0.5	43
47	A mechanism for offshore initiation of harmful algal blooms in the coastal Gulf of Maine. <i>Journal of Plankton Research</i> , 2003, 25, 1131-1138.	0.8	92
48	Cross-frontal entrainment of plankton into a buoyant plume: The frog tongue mechanism. <i>Journal of Marine Research</i> , 2002, 60, 763-777.	0.3	27
49	Predicting the Physical Effects of Relocating Boston's Sewage Outfall. <i>Estuarine, Coastal and Shelf Science</i> , 2000, 50, 59-71.	0.9	45
50	Workshop discusses community models for coastal sediment transport. <i>Eos</i> , 2000, 81, 502.	0.1	8
51	Seafloor environments in the Long Island Sound estuarine system. <i>Marine Geology</i> , 1999, 155, 277-318.	0.9	20
52	Hydrodynamic Forcing and Sediment Character in Boston Harbor. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1998, 124, 40-42.	0.5	4
53	Effect of Wave-Enhanced Bottom Friction on Storm-Driven Circulation in Massachusetts Bay. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1997, 123, 233-239.	0.5	16
54	The wind-forced response on a buoyant coastal current: Observations of the western Gulf of Maine plume. <i>Journal of Marine Systems</i> , 1997, 12, 69-81.	0.9	104

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55	Modeling Waves and Circulation in Lake Pontchartrain : ABSTRACT. AAPG Bulletin, 1997, 81 (1997), .	0.7	2
56	Seafloor environments in Cape Cod Bay, a large coastal embayment. Marine Geology, 1996, 133, 11-33.	0.9	12
57	Modeling tidal exchange and dispersion in Boston Harbor. Journal of Geophysical Research, 1992, 97, 15591-15606.	3.3	100
58	A Reassessment of the Role of Tidal Dispersion in Estuaries and Bays. Estuaries and Coasts, 1992, 15, 97.	1.7	142
59	Transient eddy formation around headlands. Journal of Geophysical Research, 1991, 96, 2561-2575.	3.3	282
60	Numerical simulation of tidal dispersion around a coastal headland. Coastal and Estuarine Studies, 1990, , 210-222.	0.4	23
61	Measurements of tidal flow around a headland with a shipboard acoustic Doppler current profiler. Journal of Geophysical Research, 1990, 95, 3189-3197.	3.3	183
62	Effect of waveâ€current interaction on windâ€driven circulation in narrow, shallow embayments. Journal of Geophysical Research, 1990, 95, 9671-9678.	3.3	137
63	Numerical Simulation of Tidal Dispersion Around a Coastal Headland. , 1990, , 210-222.		4