Steven D Meyers

List of Publications by Year
in descending order

45 papers	1,564 citations	19 h-index 394421	39 g-index 302126
45 all docs	45 docs citations	45 times ranked	1727 citing authors

#	Article	IF	Citations
1	Increasing risk of compound flooding from storm surge and rainfall for major US cities. Nature Climate Change, 2015, 5, 1093-1097.	18.8	500
2	Laboratory simulation of Jupiter's Great Red Spot. Nature, 1988, 331, 689-693.	27.8	169
3	Laboratory model of a planetary eastward jet. Nature, 1989, 337, 58-61.	27.8	116
4	Chaos and mixing in a geostrophic flow. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1243-1249.	1.6	65
5	ENSO Effects on Gulf of Alaska Eddies. Earth Interactions, 1999, 3, 1-30.	1.5	52
6	ENSO and eddies on the southwest coast of Mexico. Geophysical Research Letters, 2001, 28, 13-16.	4.0	48
7	Detection of the fast Kelvin wave teleconnection due to El Niño-Southern Oscillation. Journal of Geophysical Research, 1998, 103, 27655-27663.	3.3	47
8	Reconstruction of Monthly SST in the Tropical Pacific Ocean during 1868–1993Using Adaptive Climate Basis Functions. Monthly Weather Review, 1999, 127, 1599-1612.	1.4	46
9	A Numerical Simulation of Residual Circulation in Tampa Bay. Part II: Lagrangian Residence Time. Estuaries and Coasts, 2008, 31, 815-827.	2.2	43
10	Lagrangian particle tracking of a toxic dinoflagellate bloom within the Tampa Bay estuary. Marine Pollution Bulletin, 2010, 60, 2233-2241.	5.0	29
11	Laboratory study of the dynamics of Jovian-type vortices. Physica D: Nonlinear Phenomena, 1989, 37, 515-530.	2.8	28
12	Annual and interannual sea level variations in the Indian Ocean from TOPEX/Poseidon observations and ocean model simulations. Journal of Geophysical Research, 2000, 105, 975-994.	3.3	27
13	A numerical simulation of residual circulation in Tampa Bay. Part I: Low-frequency temporal variations. Estuaries and Coasts, 2007, 30, 679-697.	2.2	26
14	Cross-Frontal Mixing in a Meandering Jet. Journal of Physical Oceanography, 1994, 24, 1641-1646.	1.7	25
15	Eddies in the eastern Gulf of Alaska from TOPEX/POSEIDON altimetry. Journal of Geophysical Research, 1999, 104, 13333-13343.	3.3	25
16	Interdecadal Variability in a Numerical Model of the Northeast Pacific Ocean: 1970–89. Journal of Physical Oceanography, 1996, 26, 2635-2652.	1.7	23
17	Alteration of Residual Circulation Due to Large-Scale Infrastructure in a Coastal Plain Estuary. Estuaries and Coasts, 2014, 37, 493-507.	2.2	23
18	Disparity between planktonic fish egg and larval communities as indicated by DNA barcoding. Marine Ecology - Progress Series, 2014, 503, 195-204.	1.9	23

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19	Spatial and temporal 26-day SST variations in the equatorial Indian Ocean using wavelet analysis. Geophysical Research Letters, 1994, 21, 777-780.	4.0	21
20	Models of the Great Red Spot. Nature, 1990, 343, 517-518.	27.8	19
21	Observations of currents on the West Florida Shelf Break. Geophysical Research Letters, 2001, 28, 2037-2040.	4.0	19
22	Acoustic thermometry data compared with two ocean models: the importance of Rossby waves and ENSO in modifying the ocean interior. Dynamics of Atmospheres and Oceans, 1998, 26, 209-240.	1.8	18
23	Pacific Ocean influences atmospheric carbon dioxide. Eos, 1995, 76, 533-533.	0.1	16
24	On a generating mechanism for Yanai waves and the 25-day oscillation. Journal of Geophysical Research, 1995, 100, 10589.	3.3	15
25	Modelling of wind wave-induced bottom processes during the slack water periods in Tampa Bay, Florida. International Journal for Numerical Methods in Fluids, 2006, 52, 1277-1292.	1.6	14
26	Multi- and Quasi-Decadal Variations of Sea Surface Temperature in the North Atlantic. Journal of Physical Oceanography, 1999, 29, 3133-3144.	1.7	13
27	A coastal prediction system as an event response tool: Particle tracking simulation of an anhydrous ammonia spill in Tampa Bay. Marine Pollution Bulletin, 2009, 58, 1202-1209.	5.0	13
28	Application of the fokker-planck equation to data assimilation into hydrodynamical models. Journal of Mathematical Sciences, 2000, 99, 1393-1402.	0.4	12
29	Using logistic regression to model the risk of sewer overflows triggered by compound flooding with application to sea level rise. Urban Climate, 2021, 35, 100752.	5.7	11
30	The Sensitivity to Parametric Variation in Direct Minimization Techniques. Monthly Weather Review, 1994, 122, 1632-1639.	1.4	10
31	The impact of sea level rise on maritime navigation within a large, channelized estuary. Maritime Policy and Management, 2020, 47, 920-936.	3.8	10
32	Applying a Coupled Biophysical Model to Predict Larval Dispersal and Source/Sink Relationships in a Depleted Metapopulation of the Eastern Oyster *Crassostrea virginica*. Journal of Shellfish Research, 2017, 36, 101-118.	0.9	9
33	Fractal trajectories in a numerical model of the upper Indian Ocean. Nonlinear Processes in Geophysics, 1994, 1, 45-50.	1.3	7
34	A Scopus-based bibliometric study of maritime research involving the Automatic Identification System. Transportation Research Interdisciplinary Perspectives, 2021, 10, 100387.	2.7	7
35	Synoptic volumetric variations and flushing of the Tampa Bay estuary. Climate Dynamics, 2014, 42, 1587-1594.	3.8	6
36	Changes in Residence Time due to Large-Scale Infrastructure in a Coastal Plain Estuary. Journal of Coastal Research, 2017, 33, 815-828.	0.3	6

#	Article	IF	Citations
37	Distributed Enviromental Sensor Network: Design and Experiments. , 2006, , .		5
38	The Impact of a Barrier Island Loss on Extreme Events in the Tampa Bay. Frontiers in Marine Science, 2016, 3, .	2.5	5
39	Observations of hysteresis in the annual exchange circulation of a large microtidal estuary. Journal of Geophysical Research: Oceans, 2015, 120, 2904-2919.	2.6	4
40	Characterizing Vessel Traffic Using the AIS: A Case Study in Florida's Largest Estuary. Journal of Waterway, Port, Coastal and Ocean Engineering, 2020, 146, .	1.2	4
41	Real-Time Oceanographic Data: From Safety to Science. Eos, 2014, 95, 305-306.	0.1	2
42	Ship wakes and their potential shoreline impact in Tampa Bay. Ocean and Coastal Management, 2021, 211, 105749.	4.4	2
43	Real Time Observations of Oceanographic and Meteorological Parameters for Maritime Transportation: Origins and Novel Applications. , 2018, , .		1
44	A Coastal Ocean Prediction System for Tampa Bay, Florida. , 2007, , .		0
45	Wakes from Large Vessels and the Risk to the Shoreline Environment in Tampa Bay. , 2018, , .		0