

# Merrick C Haller

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,379  
citations

471509

17  
h-index

330143

37  
g-index

62  
all docs

62  
docs citations

62  
times ranked

874  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study of nearshore dynamics on a barred beach with rip channels. Journal of Geophysical Research, 2002, 107, 14-1.	3.3	152
2	Boussinesq modeling of a rip current system. Journal of Geophysical Research, 1999, 104, 20617-20637.	3.3	148
3	Remote Sensing of the Nearshore. Annual Review of Marine Science, 2013, 5, 95-113.	11.6	126
4	Beach Wizard: Nearshore bathymetry estimation through assimilation of model computations and remote observations. Coastal Engineering, 2008, 55, 1016-1027.	4.0	114
5	Quasi-three-dimensional modeling of rip current systems. Journal of Geophysical Research, 2003, 108, .	3.3	86
6	Remote sensing of breaking wave phase speeds with application to non-linear depth inversions. Coastal Engineering, 2008, 55, 93-111.	4.0	77
7	Rip current instabilities. Journal of Fluid Mechanics, 2001, 433, 161-192.	3.4	65
8	Ocean Wavenumber Estimation From Wave-Resolving Time Series Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2644-2658.	6.3	65
9	Rip Current Observations via Marine Radar. Journal of Waterway, Port, Coastal and Ocean Engineering, 2014, 140, 115-124.	1.2	47
10	Surf zone bathymetry and circulation predictions via data assimilation of remote sensing observations. Journal of Geophysical Research: Oceans, 2014, 119, 1993-2016.	2.6	41
11	Optical and Microwave Detection of Wave Breaking in the Surf Zone. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 1879-1893.	6.3	39
12	Comparison of radar and video observations of shallow water breaking waves. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 832-844.	6.3	37
13	Long waves propagating over a circular bowl pit. Wave Motion, 2005, 42, 143-154.	2.0	32
14	High-resolution bathymetry estimates via X-band marine radar: 1. beaches. Coastal Engineering, 2019, 149, 39-48.	4.0	29
15	Remote sensing of wave roller lengths in the laboratory. Journal of Geophysical Research, 2009, 114, .	3.3	25
16	Microwave backscattering from surf zone waves. Journal of Geophysical Research: Oceans, 2014, 119, 3098-3120.	2.6	18
17	The impact of wave energy converter arrays on wave-induced forcing in the surf zone. Ocean Engineering, 2018, 161, 322-336.	4.3	18
18	Wave Group Forcing of Low Frequency Surf Zone Motion. Coastal Engineering Journal, 1999, 41, 121-136.	1.9	17

#	ARTICLE	IF	CITATIONS
19	Asymmetry in Directional Spreading Function of Random Waves due to Refraction. Journal of Waterway, Port, Coastal and Ocean Engineering, 2010, 136, 1-9.	1.2	17
20	Radar Remote Sensing Estimates of Waves and Wave Forcing at a Tidal Inlet. Journal of Atmospheric and Oceanic Technology, 2015, 32, 842-854.	1.3	17
21	Oblique Internal Hydraulic Jumps at a Stratified Estuary Mouth. Journal of Physical Oceanography, 2017, 47, 85-100.	1.7	16
22	Alongshore Variability of Shoaling Internal Bores on the Inner Shelf. Journal of Physical Oceanography, 2020, 50, 2965-2981.	1.7	16
23	Rain-Contaminated Region Segmentation of X-Band Marine Radar Images With an Ensemble of SegNets. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 141-154.	4.9	15
24	The Inner-Shelf Dynamics Experiment. Bulletin of the American Meteorological Society, 2021, 102, E1033-E1063.	3.3	15
25	High-resolution bathymetry estimates via X-band marine radar: 2. Effects of currents at tidal inlets. Coastal Engineering, 2020, 156, 103626.	4.0	13
26	A Novel Scheme for Extracting Sea Surface Wind Information From Rain-Contaminated X-Band Marine Radar Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5220-5234.	4.9	12
27	Estimating surfzone wave transformation and wave setup from remote sensing data. Coastal Engineering, 2016, 114, 244-252.	4.0	11
28	Wave Reflection from Nearshore Depressions. Journal of Waterway, Port, Coastal and Ocean Engineering, 2008, 134, 1-11.	1.2	10
29	Untangling a Web of Interactions Where Surf Meets Coastal Ocean. Eos, 2019, 100, .	0.1	10
30	Kinematics and Statistics of Breaking Waves Observed Using SWIFT Buoys. IEEE Journal of Oceanic Engineering, 2019, 44, 1011-1023.	3.8	9
31	Simulations of the Surf Zone Eddy Field and Crossâ€Shore Exchange on a Nonidealized Bathymetry. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016619.	2.6	8
32	Wave-by-Wave Forecasting via Assimilation of Marine Radar Data. Journal of Atmospheric and Oceanic Technology, 2020, 37, 1269-1288.	1.3	7
33	Waves on unsteady currents. Physics of Fluids, 2007, 19, 126601.	4.0	5
34	Analyses of Wave Scattering and Absorption Produced by WEC Arrays: Physical/Numerical Experiments and Model Assessment. , 2017, , 71-97.		5
35	Observations and Modeling of a Buoyant Plume Exiting Into a Tidal Crossâ€Flow and Exhibiting Alongâ€Front Instabilities. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	5
36	Influence of Velocity Moments on Sand Bar Movement During CROSSTEX. , 2007, , 28.		4

#	ARTICLE	IF	CITATIONS
37	Breaking waves in deep water: measurements and modeling of energy dissipation. Ocean Dynamics, 2019, 69, 1165-1179.	2.2	4
38	Real-Time Marine Radar Observations of Nearshore Waves and Flow Structures from Shore-based Towers. , 2019, , .		4
39	THE CROSS-SHORE SEDIMENT TRANSPORT EXPERIMENT (CROSSTEX). , 2007, , .		4
40	Lifecycle of a Submesoscale Front Birthed from a Nearshore Internal Bore. Journal of Physical Oceanography, 2021, , .	1.7	3
41	SEICHING IN A LARGE WAVE FLUME. , 2007, , .		3
42	MODELING UNDERTOW OVER A BARRED LABORATORY BEACH. , 2009, , .		3
43	MODELING OF SURFZONE BUBBLES USING A MULTIPHASE VOF MODEL. , 2009, , .		3
44	Nonlinear Phase Speeds and Depth Inversions. , 2006, , 1.		2
45	Morphological Characteristics of Rip Current Embayments on the Oregon Coast. , 2007, , .		2
46	Discussion of “A simple method to determine breaker height and depth for different deepwater wave height/length ratios and sea floor slopes”, by J.P. Le Roux [Coastal Engineering 54 (2007) 271–277]. Coastal Engineering, 2008, 55, 181-184.	4.0	2
47	Review of selected oceanic EM/EO scattering problems. Proceedings of SPIE, 2010, , .	0.8	2
48	Asymmetry in Directional Spreading Function of Sea Waves Due to Refraction. , 2009, , .		2
49	NOWCASTING OF COASTAL PROCESSES THROUGH ASSIMILATION OF MODEL COMPUTATIONS AND REMOTE OBSERVATIONS. , 2007, , .		2
50	Detecting breaking ocean waves through microwave scattering. SPIE Newsroom, 0, , .	0.1	2
51	Acoustic spectrometry of bubbles in an estuarine front: Sound speed dispersion, void fraction, and bubble density. Journal of the Acoustical Society of America, 2022, 151, 2429-2443.	1.1	2
52	Low Frequency Surf Zone Response to Wave Groups. , 1999, , 1124.		1
53	WAVE BREAKING AND RIP CURRENT CIRCULATION. , 2003, , .		1
54	Measurements of Shallow Water Breaking Wave Rollers. , 2006, , 1.		1

#	ARTICLE	IF	CITATIONS
55	Response to reply by J.P. Le Roux. Coastal Engineering, 2008, 55, 820-822.	4.0	1
56	Characterizing Dangerous Waves for Ocean Wave Energy Converter Survivability. , 2010, , .		1
57	SURF ZONE WAVE BREAKING IDENTIFICATION USING MARINE RADAR. , 2009, , .		1
58	LABORATORY OBSERVATIONS AND NUMERICAL MODELING OF THE EFFECTS OF AN ARRAY OF WAVE ENERGY CONVERTERS. Coastal Engineering Proceedings, 2012, 1, 67.	0.1	1
59	Effect of Asymmetric Directional Spreading on the Total Radiation Stress. Journal of Waterway, Port, Coastal and Ocean Engineering, 2015, 141, 06015004.	1.2	0
60	Remote Sensing of Shallow Water Breaking Waves. , 2002, , .		0