

# Ernesto Rodriguez

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29  
papers

5,427  
citations

16  
h-index

35  
g-index

35  
ext. papers

6,474  
ext. citations

6.6  
avg, IF

4.89  
L-index

#	Paper	IF	Citations
29	The Shuttle Radar Topography Mission. <i>Reviews of Geophysics</i> , <b>2007</b> , 45,	23.1	3672
28	Measuring surface water from space. <i>Reviews of Geophysics</i> , <b>2007</b> , 45,	23.1	614
27	The Surface Water and Ocean Topography Mission: Observing Terrestrial Surface Water and Oceanic Submesoscale Eddies. <i>Proceedings of the IEEE</i> , <b>2010</b> , 98, 766-779	14.3	208
26	The physical oceanography of the transport of floating marine debris. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 023003	6.2	186
25	Estimating reach-averaged discharge for the River Severn from measurements of river water surface elevation and slope. <i>Journal of Hydrology</i> , <b>2014</b> , 511, 92-104	6	110
24	Toward the Integrated Marine Debris Observing System. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	91
23	Estimating River Depth From Remote Sensing Swath Interferometry Measurements of River Height, Slope, and Width. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2010</b> , 3, 20-31	4.7	82
22	Preliminary Characterization of SWOT Hydrology Error Budget and Global Capabilities. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2010</b> , 3, 6-19	4.7	80
21	Measuring currents, ice drift, and waves from space: the Sea surface Kinematics Multiscale monitoring (SKIM) concept. <i>Ocean Science</i> , <b>2018</b> , 14, 337-354	4	60
20	Estimating Ocean Vector Winds and Currents Using a Ka-Band Pencil-Beam Doppler Scatterometer. <i>Remote Sensing</i> , <b>2018</b> , 10, 576	5	55
19	Automated River Reach Definition Strategies: Applications for the Surface Water and Ocean Topography Mission. <i>Water Resources Research</i> , <b>2017</b> , 53, 8164-8186	5.4	40
18	Remotely Sensed Winds and Wind Stresses for Marine Forecasting and Ocean Modeling. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	37
17	Integrated Observations of Global Surface Winds, Currents, and Waves: Requirements and Challenges for the Next Decade. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	34
16	The effect of small-wave modulation on the electromagnetic bias. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 2379		28
15	The Winds and Currents Mission Concept. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	27
14	Impact of Surface Waves on SWOT's Projected Ocean Accuracy. <i>Remote Sensing</i> , <b>2015</b> , 7, 14509-14529	5	16
13	Soil Moisture and Vegetation Water Content Retrieval Using QuikSCAT Data. <i>Remote Sensing</i> , <b>2018</b> , 10, 636	5	14

12	Winds and currents mission: Ability to observe mesoscale AIR/SEA coupling <b>2016</b> ,		14
11	On the Optimal Design of Doppler Scatterometers. <i>Remote Sensing</i> , <b>2018</b> , 10, 1765	5	13
10	Measuring currents, ice drift, and waves from space: the Sea Surface Kinematics Multiscale monitoring (SKIM) concept <b>2017</b> ,		11
9	Observing Rivers With Varying Spatial Scales. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR026476	5-4	7
8	Near nadir Ka-band sar interferometry: SWOT airborne experiment <b>2011</b> ,		5
7	Ka-Band Doppler Scatterometry over a Loop Current Eddy. <i>Remote Sensing</i> , <b>2020</b> , 12, 2388	5	5
6	Mapping Water Surface Elevation and Slope in the Mississippi River Delta Using the AirSWOT Ka-Band Interferometric Synthetic Aperture Radar. <i>Remote Sensing</i> , <b>2019</b> , 11, 2739	5	5
5	Measuring Winds and Currents with Ka-Band Doppler Scatterometry: An Airborne Implementation and Progress towards a Spaceborne Mission. <i>Remote Sensing</i> , <b>2020</b> , 12, 1021	5	3
4	S-MODE: The Sub-Mesoscale Ocean Dynamics Experiment <b>2020</b> ,		3
3	On the Surface Current Measurement Capabilities of Spaceborne Doppler Scatterometry. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090116	4-9	2
2	Separating Energetic Internal Gravity Waves and Small-Scale Frontal Dynamics. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4-9	2
1	A Ka-Band Wind Geophysical Model Function Using Doppler Scatterometer Measurements from the Air-Sea Interaction Tower Experiment. <i>Remote Sensing</i> , <b>2022</b> , 14, 2067	5	