Ernesto RodrÃ-guez

List of Publications by Year
in descending order

29 papers	7,679 citations	471061 17 h-index	580395 25 g-index
35 all docs	35 docs citations	35 times ranked	11008 citing authors

#	Article	IF	Citations
1	The Shuttle Radar Topography Mission. Reviews of Geophysics, 2007, 45, .	9.0	5,113
2	Measuring surface water from space. Reviews of Geophysics, 2007, 45, .	9.0	744
3	The physical oceanography of the transport of floating marine debris. Environmental Research Letters, 2020, 15, 023003.	2.2	469
4	The Surface Water and Ocean Topography Mission: Observing Terrestrial Surface Water and Oceanic Submesoscale Eddies. Proceedings of the IEEE, 2010, 98, 766-779.	16.4	261
5	Toward the Integrated Marine Debris Observing System. Frontiers in Marine Science, 2019, 6, .	1.2	178
6	Estimating reach-averaged discharge for the River Severn from measurements of river water surface elevation and slope. Journal of Hydrology, 2014, 511, 92-104.	2.3	126
7	Estimating River Depth From Remote Sensing Swath Interferometry Measurements of River Height, Slope, and Width. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 20-31.	2.3	94
8	Preliminary Characterization of SWOT Hydrology Error Budget and Global Capabilities. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 6-19.	2.3	94
9	Measuring currents, ice drift, and waves from space: the Sea surface KInematics Multiscale monitoring (SKIM) concept. Ocean Science, 2018, 14, 337-354.	1.3	87
10	Remotely Sensed Winds and Wind Stresses for Marine Forecasting and Ocean Modeling. Frontiers in Marine Science, 2019, 6, .	1.2	71
11	Estimating Ocean Vector Winds and Currents Using a Ka-Band Pencil-Beam Doppler Scatterometer. Remote Sensing, 2018, 10, 576.	1.8	67
12	Integrated Observations of Global Surface Winds, Currents, and Waves: Requirements and Challenges for the Next Decade. Frontiers in Marine Science, 2019, 6, .	1.2	60
13	The Winds and Currents Mission Concept. Frontiers in Marine Science, 2019, 6, .	1.2	51
14	Automated River Reach Definition Strategies: Applications for the Surface Water and Ocean Topography Mission. Water Resources Research, 2017, 53, 8164-8186.	1.7	46
15	The effect of smallâ€wave modulation on the electromagnetic bias. Journal of Geophysical Research, 1992, 97, 2379-2389.	3.3	30
16	Impact of Surface Waves on SWOTâ€™s Projected Ocean Accuracy. Remote Sensing, 2015, 7, 14509-14529.	1.8	30
17	On the Optimal Design of Doppler Scatterometers. Remote Sensing, 2018, 10, 1765.	1.8	18
18	Winds and currents mission: Ability to observe mesoscale AIR/SEA coupling. , 2016, , .		17

#	Article	IF	Citations
19	Soil Moisture and Vegetation Water Content Retrieval Using QuikSCAT Data. Remote Sensing, 2018, 10, 636.	1.8	15
20	Mapping Water Surface Elevation and Slope in the Mississippi River Delta Using the AirSWOT Ka-Band Interferometric Synthetic Aperture Radar. Remote Sensing, 2019, 11, 2739.	1.8	15
21	Observing Rivers With Varying Spatial Scales. Water Resources Research, 2020, 56, e2019WR026476.	1.7	12
22	Ka-Band Doppler Scatterometry over a Loop Current Eddy. Remote Sensing, 2020, 12, 2388.	1.8	11
23	Near nadir Ka-band sar interferometry: SWOT airborne experiment. , 2011, , .		10
24	On the Surface Current Measurement Capabilities of Spaceborne Doppler Scatterometry. Geophysical Research Letters, 2020, 47, e2020GL090116.	1.5	10
25	Measuring Winds and Currents with Ka-Band Doppler Scatterometry: An Airborne Implementation and Progress towards a Spaceborne Mission. Remote Sensing, 2020, 12, 1021.	1.8	9
26	S-MODE: The Sub-Mesoscale Ocean Dynamics Experiment. , 2020, , .		9
27	Separating Energetic Internal Gravity Waves and Smallâ€Scale Frontal Dynamics. Geophysical Research Letters, 2022, 49, .	1.5	6
28	A Ka-Band Wind Geophysical Model Function Using Doppler Scatterometer Measurements from the Air-Sea Interaction Tower Experiment. Remote Sensing, 2022, 14, 2067.	1.8	1
29	Towards a Characterization of the Ka-Band Ocean Surface Backscattering Mechanisms. , 2021, , .		0