Jacqueline Boutin

List of Publications by Year
in descending order

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143 papers	8,141 citations	87888 38 h-index	53230 85 g-index
173 all docs	173 docs citations	173 times ranked	6383 citing authors

#	Article	IF	Citations
1	The SMOS Mission: New Tool for Monitoring Key Elements ofthe Global Water Cycle. Proceedings of the IEEE, 2010, 98, 666-687.	21.3	1,507
2	In situ evaluation of air-sea gas exchange parameterizations using novel conservative and volatile tracers. Global Biogeochemical Cycles, 2000, 14, 373-387.	4.9	1,177
3	A multi-decade record of high-quality <i>f</i>CO₂ data in version 3 of the Surface Ocean CO₂ Atlas (SOCAT). Earth System Science Data, 2016, 8, 383-413.	9.9	413
4	SMOS: The Challenging Sea Surface Salinity Measurement From Space. Proceedings of the IEEE, 2010, 98, 649-665.	21.3	339
5	Estimates of anthropogenic carbon uptake from four three-dimensional global ocean models. Global Biogeochemical Cycles, 2001, 15, 43-60.	4.9	274
6	Seasonal and interannual variability of CO2 in the equatorial Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 2443-2469.	1.4	176
7	A uniform, quality controlled Surface Ocean CO₂ Atlas (SOCAT). Earth System Science Data, 2013, 5, 125-143.	9.9	158
8	An update to the Surface Ocean CO₂ Atlas (SOCAT version 2). Earth System Science Data, 2014, 6, 69-90.	9.9	158
9	The WISE 2000 and 2001 field experiments in support of the SMOS mission: sea surface L-band brightness temperature observations and their application to sea surface salinity retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 804-823.	6.3	132
10	Sea Surface Salinity Observations from Space with the SMOS Satellite: A New Means to Monitor the Marine Branch of the Water Cycle. Surveys in Geophysics, 2014, 35, 681-722.	4.6	132
11	New SMOS Sea Surface Salinity with reduced systematic errors and improved variability. Remote Sensing of Environment, 2018, 214, 115-134.	11.0	132
12	Satellite and In Situ Salinity: Understanding Near-Surface Stratification and Subfootprint Variability. Bulletin of the American Meteorological Society, 2016, 97, 1391-1407.	3.3	126
13	Satellite Salinity Observing System: Recent Discoveries and the Way Forward. Frontiers in Marine Science, 2019, 6, .	2.5	120
14	Sea surface salinity estimates from spaceborne L-band radiometers: An overview of the first decade of observation (2010â€"2019). Remote Sensing of Environment, 2020, 242, 111769.	11.0	120
15	Overview of the SMOS Sea Surface Salinity Prototype Processor. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 621-645.	6.3	117
16	Sea surface freshening inferred from SMOS and ARGO salinity: impact of rain. Ocean Science, 2013, 9, 183-192.	3.4	112
17	First Assessment of SMOS Data Over Open Ocean: Part IIâ€"Sea Surface Salinity. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1662-1675.	6.3	103
18	Surface Ocean CO₂ Atlas (SOCAT) gridded data products. Earth System Science Data, 2013, 5, 145-153.	9.9	101

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19	Expected Performances of the Copernicus Imaging Microwave Radiometer (CIMR) for an Allâ€Weather and High Spatial Resolution Estimation of Ocean and Sea Ice Parameters. Journal of Geophysical Research: Oceans, 2018, 123, 7564-7580.	2.6	87
20	SMOS first data analysis for sea surface salinity determination. International Journal of Remote Sensing, 2013, 34, 3654-3670.	2.9	81
21	Vertical Variability of Near-Surface Salinity in the Tropics: Consequences for L-Band Radiometer Calibration and Validation. Journal of Atmospheric and Oceanic Technology, 2010, 27, 192-209.	1.3	75
22	Issues concerning the sea emissivity modeling at L band for retrieving surface salinity. Radio Science, 2003, 38, n/a-n/a.	1.6	70
23	Transfer Across the Air-Sea Interface. Springer Earth System Sciences, 2014, , 55-112.	0.2	69
24	Overview of the First SMOS Sea Surface Salinity Products. Part I: Quality Assessment for the Second Half of 2010. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1636-1647.	6.3	66
25	Sea surface salinity structure of the meandering Gulf Stream revealed by SMOS sensor. Geophysical Research Letters, 2014, 41, 3141-3148.	4.0	60
26	Remote Sensing of Sea Surface Salinity: Comparison of Satellite and In Situ Observations and Impact of Retrieval Parameters. Remote Sensing, 2019, 11, 750.	4.0	55
27	CAROLS: A New Airborne L-Band Radiometer for Ocean Surface and Land Observations. Sensors, 2011, 11, 719-742.	3.8	51
28	Rainâ€induced variability of near seaâ€surface T and S from drifter data. Journal of Geophysical Research, 2012, 117, .	3.3	51
29	Surface Salinity Retrieved from SMOS Measurements over the Global Ocean: Imprecisions Due to Sea Surface Roughness and Temperature Uncertainties. Journal of Atmospheric and Oceanic Technology, 2004, 21, 1432-1447.	1.3	50
30	Seasonal and interannual CO2fluxes for the central and eastern equatorial Pacific Ocean as determined from fCO2-SST relationships. Journal of Geophysical Research, 2003, 108, .	3.3	48
31	Sea surface salinity under rain cells: SMOS satellite and in situ drifters observations. Journal of Geophysical Research: Oceans, 2014, 119, 5533-5545.	2.6	47
32	Mitigation of systematic errors in SMOS sea surface salinity. Remote Sensing of Environment, 2016, 180, 164-177.	11.0	47
33	Optimization of L-Band Sea Surface Emissivity Models Deduced From SMOS Data. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1414-1426.	6.3	46
34	First Assessment of SMOS Data Over Open Ocean: Part Iâ€"Pacific Ocean. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1648-1661.	6.3	44
35	Satellite sea surface temperature: a powerful tool for interpreting in situ pCO2 measurements in the equatorial Pacific Ocean. Tellus, Series B: Chemical and Physical Meteorology, 1999, 51, 490-508.	1.6	42
36	Influence of sea surface emissivity model parameters at L-band for the estimation of salinity. International Journal of Remote Sensing, 2002, 23, 5117-5122.	2.9	42

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37	Resolving the Global Surface Salinity Field and Variations by Blending Satellite and In Situ Observations. , 2010, , .		42
38	Consistency of Geosat, SSM/I, andERS-1Global Surface Wind Speedsâ€”Comparison with In Situ Data. Journal of Atmospheric and Oceanic Technology, 1996, 13, 183-197.	1.3	40
39	Sea surface emissivity observations at L-band: first results of the Wind and Salinity Experiment WISE 2000. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 2117-2130.	6.3	40
40	Analyzing the 2010â€“2011 La NiÃ±a signature in the tropical Pacific sea surface salinity using in situ data, SMOS observations, and a numerical simulation. Journal of Geophysical Research: Oceans, 2014, 119, 3855-3867.	2.6	40
41	SMOS salinity in the subtropical North Atlantic salinity maximum: 1. Comparison with Aquarius and in situ salinity. Journal of Geophysical Research: Oceans, 2014, 119, 8878-8896.	2.6	39
42	Selecting an optimal configuration for the Soil Moisture and Ocean Salinity mission. Radio Science, 2003, 38, n/a-n/a.	1.6	38
43	Wind speed effect on L-band brightness temperature inferred from EuroSTARRS and WISE 2001 field experiments. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 2206-2213.	6.3	38
44	Bay of Bengal Sea surface salinity variability using a decade of improved SMOS re-processing. Remote Sensing of Environment, 2020, 248, 111964.	11.0	37
45	L-band sea surface emissivity: Preliminary results of the WISE-2000 campaign and its application to salinity retrieval in the SMOS mission. Radio Science, 2003, 38, n/a-n/a.	1.6	36
46	Issues About Retrieving Sea Surface Salinity in Coastal Areas From SMOS Data. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2061-2072.	6.3	35
47	Formation and variability of the South Pacific Sea Surface Salinity maximum in recent decades. Journal of Geophysical Research: Oceans, 2013, 118, 5109-5116.	2.6	34
48	ARGO Upper Salinity Measurements: Perspectives for L-Band Radiometers Calibration and Retrieved Sea Surface Salinity Validation. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 202-206.	3.1	33
49	Airâ€sea CO₂ flux variability in frontal regions of the Southern Ocean from CARbon Interface OCean Atmosphere drifters. Limnology and Oceanography, 2008, 53, 2062-2079.	3.1	32
50	Interannual anomalies of SMOS sea surface salinity. Remote Sensing of Environment, 2016, 180, 128-136.	11.0	32
51	Roughness and foam signature on SMOS-MIRAS brightness temperatures: A semi-theoretical approach. Remote Sensing of Environment, 2016, 180, 221-233.	11.0	32
52	New insights into SMOS sea surface salinity retrievals in the Arctic Ocean. Remote Sensing of Environment, 2020, 249, 112027.	11.0	31
53	Variability of the net airâ€“sea CO2flux inferred from shipboard and satellite measurements in the Southern Ocean south of Tasmania and New Zealand. Journal of Geophysical Research, 2005, 110, .	3.3	30
54	Biases Between Measured and Simulated SMOS Brightness Temperatures Over Ocean: Influence of Sun. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1341-1350.	4.9	30

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55	SMOSSea Surface Salinity signals of tropical instability waves. Journal of Geophysical Research: Oceans, 2014, 119, 7811-7826.	2.6	30
56	SMOS salinity in the subtropical North Atlantic salinity maximum: 2. Twoâ€dimensional horizontal thermohaline variability. Journal of Geophysical Research: Oceans, 2015, 120, 972-987.	2.6	29
57	Satelliteâ€Based Sea Surface Salinity Designed for Ocean and Climate Studies. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017676.	2.6	29
58	Influence of gas exchange coefficient parameterisation on seasonal and regional variability of CO2air-sea fluxes. Geophysical Research Letters, 2002, 29, 23-1-23-4.	4.0	28
59	Northward Pathway Across the Tropical North Pacific Ocean Revealed by Surface Salinity: How do El NiÃ±o Anomalies Reach Hawaii?. Journal of Geophysical Research: Oceans, 2018, 123, 2697-2715.	2.6	28
60	Long-term variability of the air-sea CO2exchange coefficient: Consequences for the CO2fluxes in the equatorial Pacific Ocean. Global Biogeochemical Cycles, 1997, 11, 453-470.	4.9	27
61	Errors in SMOS Sea Surface Salinity and their dependency on a priori wind speed. Remote Sensing of Environment, 2014, 146, 159-171.	11.0	26
62	Eddyâ€Induced Salinity Changes in the Tropical Pacific. Journal of Geophysical Research: Oceans, 2019, 124, 374-389.	2.6	26
63	Roles of biological and physical processes in driving seasonal airâ€"sea CO 2 flux in the Southern Ocean: New insights from CARIOCA pCO 2. Journal of Marine Systems, 2015, 147, 9-20.	2.1	24
64	Correcting Sea Surface Temperature Spurious Effects in Salinity Retrieved From Spaceborne L-Band Radiometer Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7256-7269.	6.3	23
65	Seasonal variation of the CO₂ exchange coefficient over the global ocean using satellite wind speed measurements. Tellus, Series B: Chemical and Physical Meteorology, 2022, 43, 247.	1.6	22
66	Intraseasonal Variability of Surface Salinity in the Eastern Tropical Pacific Associated With Mesoscale Eddies. Journal of Geophysical Research: Oceans, 2019, 124, 2861-2875.	2.6	22
67	Seasonal variation of the CO2 exchange coefficient over the global ocean using satellite wind speed measurements. Tellus, Series B: Chemical and Physical Meteorology, 1991, 43, 247-255.	1.6	21
68	Variability of surface waterfCO2during seasonal upwelling in the equatorial Atlantic Ocean as observed by a drifting buoy. Journal of Geophysical Research, 2001, 106, 9241-9253.	3.3	21
69	Assessment of seasonal and year-to-year surface salinity signals retrieved from SMOS and Aquarius missions in the Bay of Bengal. International Journal of Remote Sensing, 2016, 37, 1089-1114.	2.9	21
70	New in situ estimates of carbon biological production rates in the Southern Ocean from CARIOCA drifter measurements. Geophysical Research Letters, 2009, 36, .	4.0	20
71	Sea water fugacity of CO₂ at the PIRATA mooring at 6°S, 10°W. Tellus, Series B: Chemical and Physical Meteorology, 2022, 62, 636.	1.6	20
72	Precipitation Estimates from SMOS Seaâ€Surface Salinity. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 103-119.	2.7	20

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73	Mesoscale and diel to monthly variability of CO₂ and carbon fluxes at the ocean surface in the northeastern Atlantic. Journal of Geophysical Research, 2009, 114, .	3.3	19
74	Observed small spatial scale and seasonal variability of the CO₂ system in the Southern Ocean. Biogeosciences, 2014, 11, 75-90.	3.3	18
75	Comparisons of Ocean Radiative Transfer Models With SMAP and AMSR2 Observations. Journal of Geophysical Research: Oceans, 2019, 124, 7683-7699.	2.6	18
76	Properties of surface water masses in the Laptev and the East Siberian seas in summer 2018 from in situ and satellite data. Ocean Science, 2021, 17, 221-247.	3.4	18
77	Comparison of ECMWF and satellite ocean wind speeds from 1985 to 1992. International Journal of Remote Sensing, 1996, 17, 2897-2913.	2.9	17
78	Surface Salinity Measurementsâ€"COSMOS 2005 Experiment in the Bay of Biscay. Journal of Atmospheric and Oceanic Technology, 2007, 24, 1643-1654.	1.3	17
79	Remote Sensing of Sea Surface Salinity From CAROLS L-Band Radiometer in the Gulf of Biscay. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1703-1715.	6.3	17
80	Surface Salinity in the North Atlantic Subtropical Gyre During the STRASSE/SPURS Summer 2012 Cruise. Oceanography, 2015, 28, 114-123.	1.0	17
81	Increase of dissolved inorganic carbon and decrease in pH in near-surface waters in the Mediterranean Sea during the past two decades. Biogeosciences, 2018, 15, 5653-5662.	3.3	17
82	Formation and Evolution of a Freshwater Plume in the Northwestern Tropical Atlantic in February 2020. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016981.	2.6	17
83	Satellite sea surface temperature: a powerful tool for interpreting in situ <i>p</i>CO₂ measurements in the equatorial Pacific Ocean. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 490.	1.6	16
84	Surface CO2 parameters and airâ€“sea CO2 flux distribution in the eastern equatorial Atlantic Ocean. Journal of Marine Systems, 2010, 82, 135-144.	2.1	16
85	Relaxation of Wind Stress Drives the Abrupt Onset of Biological Carbon Uptake in the Kerguelen Bloom: A Multisensor Approach. Geophysical Research Letters, 2020, 47, e2019GL085992.	4.0	15
86	Comparison of NSCAT, ERS 2 active microwave instrument, special sensor microwave imager, and Carbon Interface Ocean Atmosphere buoy wind speed: Consequences for the air-sea CO2exchange coefficient. Journal of Geophysical Research, 1999, 104, 11375-11392.	3.3	14
87	Measuring pH variability using an experimental sensor on an underwater glider. Ocean Science, 2017, 13, 427-442.	3.4	14
88	Temperature Measurements from Surface Drifters. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1403-1409.	1.3	13
89	Importance of water mass formation regions for the air-sea CO2flux estimate in the Southern Ocean. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	4.9	13
90	Freshwater from the Bay of Biscay shelves in 2009. Journal of Marine Systems, 2013, 109-110, S134-S143.	2.1	13

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91	Intrinsic error in the air-sea CO2 exchange coefficient resulting from the use of satellite wind speeds. Tellus, Series B: Chemical and Physical Meteorology, 1991, 43, 236-246.	1.6	12
92	Global average of airâ€sea CO₂ transfer velocity from QuikSCAT scatterometer wind speeds. Journal of Geophysical Research, 2009, 114, .	3.3	12
93	New total electron content retrieval improves SMOS sea surface salinity. Journal of Geophysical Research: Oceans, 2014, 119, 7295-7307.	2.6	12
94	Inter-comparison of SMOS and aquarius Sea Surface Salinity: Effects of the dielectric constant and vicarious calibration. , 2014, , .		12
95	Surpact: A SMOS Surface Wave Rider for Air-Sea Interaction. Oceanography, 2013, 26, 48-57.	1.0	12
96	Wintertime process study of the North Brazil Current rings reveals the region as a larger sink for CO₂ than expected. Biogeosciences, 2022, 19, 2969-2988.	3.3	12
97	Seasat scatterometer versus scanning multichannel microwave radiometer wind speeds: A comparison on a global scale. Journal of Geophysical Research, 1990, 95, 22275-22288.	3.3	11
98	Intrinsic error in the air-sea CO₂ exchange coefficient resulting from the use of satellite wind speeds. Tellus, Series B: Chemical and Physical Meteorology, 2022, 43, 236.	1.6	11
99	New insights into <i>f</i>CO₂ variability in the tropical eastern Pacific Ocean using SMOS SSS. Biogeosciences, 2015, 12, 7315-7329.	3.3	11
100	Sea Surface Salinity and Temperature Budgets in the North Atlantic Subtropical Gyre during SPURS Experiment: August 2012-August 2013. Frontiers in Marine Science, 2015, 2, .	2.5	11
101	Observation of the surface horizontal thermohaline variability at mesoscale to submesoscale in the northâ€eastern subtropical <scp>A</scp>tlantic <scp>O</scp>cean. Journal of Geophysical Research: Oceans, 2015, 120, 2588-2600.	2.6	11
102	Objective Analysis of SMOS and SMAP Sea Surface Salinity to Reduce Large-Scale and Time-Dependent Biases from Low to High Latitudes. Journal of Atmospheric and Oceanic Technology, 2021, 38, 405-421.	1.3	11
103	Activeâ€passive synergy for interpreting ocean Lâ€band emissivity: Results from the CAROLS airborne campaigns. Journal of Geophysical Research: Oceans, 2014, 119, 4940-4957.	2.6	10
104	Tropical Instability Waves in the Atlantic Ocean: Investigating the Relative Role of Sea Surface Salinity and Temperature From 2010 to 2018. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016641.	2.6	10
105	Reference-Quality Emission and Backscatter Modeling for the Ocean. Bulletin of the American Meteorological Society, 2020, 101, E1593-E1601.	3.3	10
106	Validation of Salinity Data from Surface Drifters. Journal of Atmospheric and Oceanic Technology, 2014, 31, 967-983.	1.3	9
107	Air-sea CO₂ flux variability in the equatorial Pacific Ocean near 100Â°w. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 734.	1.6	9
108	A New L-Band Passive Radiometer For Earth Observation: SMOS-High Resolution (SMOS-HR). , 2020, , .		9

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109	Air-sea CO2 flux variability in the equatorial Pacific Ocean near 100oW. Tellus, Series B: Chemical and Physical Meteorology, 1999, 51, 734-747.	1.6	8
110	Nearâ€“Sea Surface Temperature Stratification from SVP Drifters. Journal of Atmospheric and Oceanic Technology, 2013, 30, 1867-1883.	1.3	8
111	CO2 exchange at the air-sea interface: Time and space variability. Advances in Space Research, 1991, 11, 77-85.	2.6	7
112	Absolute Calibration of Radar Altimeters: Consistency with Electromagnetic Modeling. Journal of Atmospheric and Oceanic Technology, 2005, 22, 771-781.	1.3	7
113	An Iterative Convergence Algorithm to Retrieve Sea Surface Salinity from SMOS L-band Radiometric Measurements. , 2006, , .		7
114	Variability of Satellite Sea Surface Salinity Under Rainfall. Advances in Global Change Research, 2020, , 1155-1176.	1.6	7
115	Carbon, oxygen and biological productivity in the Southern Ocean in and out the Kerguelen plume: CARIOCA drifter results. Biogeosciences, 2015, 12, 3513-3524.	3.3	5
116	Possible consequences of the chemical enhancement effect for air-sea CO2 flux estimates. Physics and Chemistry of the Earth, 1999, 24, 411-416.	0.3	4
117	Sea surface emissivity observations at L-band: first preliminary results of the WInd and Salinity Experiment WISE-2000. , 0, , .		4
118	Overview of SMOS Level 2 Ocean Salinity processing and first results. , 2010, , .		4
119	On the physical and biogeochemical processes driving the high frequency variability of <scp>CO</scp>₂ fugacity at 6Â°S, 10Â°W: <scp>P</scp>otential role of the internal waves. Journal of Geophysical Research: Oceans, 2014, 119, 8357-8374.	2.6	3
120	Satellite and In Situ Sampling Mismatches: Consequences for the Estimation of Satellite Sea Surface Salinity Uncertainties. Remote Sensing, 2022, 14, 1878.	4.0	3
121	Errors on surface salinity retrieved from SMOS measurements over global ocean. , 0, , .		2
122	Uncertainties on salinity retrieved from SMOS measurements over global ocean. , 0, , .		2
123	Sea surface salinity as measured by SMOS and by surface autonomous drifters. , 2012, , .		2
124	Present and Future of L-Band Radiometry. , 2018, , .		2
125	Results of the Dragon 4 Project on New Ocean Remote Sensing Data for Operational Applications. Remote Sensing, 2021, 13, 2847.	4.0	2
126	Perspectives and Integration in SOLAS Science. Springer Earth System Sciences, 2014, , 247-306.	0.2	2

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127	CCI+SSS, A New SMOS L2 Reprocessing Reduces Errors on Sea Surface Salinity Time Series. , 2021, , .		2
128	Sea surface emissivity at L-band: results of the WInd and Salinity Experiments WISE 2000 and 2001 and preliminary results from FROG 2003. , 2004, , .		1
129	Combined Airborne Radio-instruments for Ocean and Land Studies (CAROLS). , 2008, , .		1
130	Carols Campaign, Scientific Data Analysis Results. , 2008, , .		1
131	Validation of SMOS measurements over ocean and improvement of sea surface emissivity modelat L band. , 2011, , .		1
132	Comparison of SMOS and Aquarius Sea Surface Salinity and analysis of possible causes for the differences. , 2014, , .		1
133	SMOS ocean salinity: Recent improvements and applications. , 2014, , .		1
134	Revised Mitigation of Systematic Errors in SMOS Sea Surface Salinity. , 2018, , .		1
135	Estimating the interannual variability of the air-sea CO2 flux in the east equatorial Pacific. Physics and Chemistry of the Earth, 1999, 24, 405-410.	0.3	0
136	Sea state influence on L-band emissivity in various fetch conditions. , 0, , .		0
137	SMOS sea surface salinity prototype processor: Algorithm validation. , 2007, , .		0
138	Vertical variability of Sea Surface Salinity and influence on L-band brightness temperature. , 2007, , .		0
139	On systematic biases between modeled and measured SMOS brightness temperature. , 2012, , .		0
140	Large scale variability of SMOS sea surface salinity in 2010 and 2011: Ocean variability and other effects. , 2012, , .		0
141	Sea surface salinity signatures of tropical instability waves: New evidences from SMOS. , 2014, , .		0
142	SMOS Level 3 Salinity Maps at CATDS: What do We Learn with Recent Reprocessings?. , 2021, , .		0
143	Seawater Dielectric Constant At L-Band: How Consistent Are New Parametrisations Inferred from Smos and Laboratory Measurements?. , 2021, , .		0