

# Emmanuel Dinnat

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

1,233  
citations

361413

20  
h-index

395702

33  
g-index

90  
all docs

90  
docs citations

90  
times ranked

938  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Issues concerning the sea emissivity modeling at L band for retrieving surface salinity. Radio Science, 2003, 38, n/a-n/a.	1.6	70
4	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
5	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
6	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
7	Spaceâ€Based Observations for Understanding Changes in the Arcticâ€Boreal Zone. Reviews of Geophysics, 2020, 58, e2019RG000652.	23.0	39
8	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
9	The Aquarius Simulator and Cold-Sky Calibration. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3198-3210.	6.3	38
10	Status of Aquarius/SAC-D and Aquarius Salinity Retrievals. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 5401-5415.	4.9	34
11	Satellite observed salinity distributions at high latitudes in the <scp>N</scp>orthern <scp>H</scp>emisphere: A comparison of four products. Journal of Geophysical Research: Oceans, 2017, 122, 7717-7736.	2.6	33
12	Roughness and foam signature on SMOS-MIRAS brightness temperatures: A semi-theoretical approach. Remote Sensing of Environment, 2016, 180, 221-233.	11.0	32
13	The Influence of Antenna Pattern on Faraday Rotation in Remote Sensing at L-Band. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2737-2746.	6.3	29
14	L-Band Model Function of the Dielectric Constant of Seawater. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6964-6974.	6.3	28
15	Impact of Sun Glint on Salinity Remote Sensing: An Example With the Aquarius Radiometer. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3137-3150.	6.3	26
16	Weekly gridded Aquarius L-band radiometer/scatterometer observations and salinity retrievals over the polar regions â€“ Part 2: Initial product analysis. Cryosphere, 2014, 8, 915-930.	3.9	26
17	The impact of the assimilation of Aquarius sea surface salinity data in the GEOS ocean data assimilation system. Journal of Geophysical Research: Oceans, 2014, 119, 6974-6987.	2.6	23
18	Effect of Snow Surface Metamorphism on Aquarius L-Band Radiometer Observations at Dome C, Antarctica. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7408-7417.	6.3	23

#	ARTICLE	IF	CITATIONS
19	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
20	Seawater Debye Model Function at L-Band and Its Impact on Salinity Retrieval From Aquarius Satellite Data. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8103-8116.	6.3	21
21	Effects of the Antenna Aperture on Remote Sensing of Sea Surface Salinity at L-Band. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2051-2060.	6.3	20
22	Aquarius Third Stokes Parameter Measurements: Initial Results. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 520-524.	3.1	20
23	Status of Aquarius and Salinity Continuity. Remote Sensing, 2018, 10, 1585.	4.0	20
24	Weekly gridded Aquarius L-band radiometer/scatterometer observations and salinity retrievals over the polar regions " Part 1: Product description. Cryosphere, 2014, 8, 905-913.	3.9	18
25	Soil Moisture Active/Passive L-Band Microwave Radiometer Postlaunch Calibration. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5339-5354.	6.3	18
26	Aquarius L-band Radiometers Calibration Using Cold Sky Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 5433-5449.	4.9	17
27	The Multifrequency Future for Remote Sensing of Sea Surface Salinity from Space. Remote Sensing, 2020, 12, 1381.	4.0	17
28	Aquarius Mission Technical Overview. , 2006, , .		16
29	Microwave Radiometry at Frequencies From 500 to 1400 MHz: An Emerging Technology for Earth Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4894-4914.	4.9	16
30	Impact of Antenna Pattern on Measurement of the Third Stokes Parameter From Space at L-Band. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 406-414.	6.3	15
31	Ionospheric Effects for L-Band 2-D Interferometric Radiometry. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 105-118.	6.3	14
32	Soil Moisture Active/Passive (SMAP) L-Band Microwave Radiometer Post-Launch Calibration Upgrade. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1647-1657.	4.9	14
33	Aquarius: Status and recent results. Radio Science, 2014, 49, 709-720.	1.6	13
34	Revisiting the Global Patterns of Seasonal Cycle in Sea Surface Salinity. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016789.	2.6	13
35	Inter-comparison of SMOS and aquarius Sea Surface Salinity: Effects of the dielectric constant and vicarious calibration. , 2014, , .		12
36	Improved Sea Ice Fraction Characterization for L-Band Observations by the Aquarius Radiometers. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1285-1304.	6.3	12

#	ARTICLE	IF	CITATIONS
37	Active&passive synergy for interpreting ocean L&band emissivity: Results from the CAROLS airborne campaigns. Journal of Geophysical Research: Oceans, 2014, 119, 4940-4957.	2.6	10
38	Sea Surface Salinity Distribution in the Southern Ocean as Observed From Space. Journal of Geophysical Research: Oceans, 2019, 124, 3186-3205.	2.6	10
39	Reference-Quality Emission and Backscatter Modeling for the Ocean. Bulletin of the American Meteorological Society, 2020, 101, E1593-E1601.	3.3	10
40	Effect of Emission From the Moon on Remote Sensing of Sea Surface Salinity: An Example With the Aquarius Radiometer. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 239-243.	3.1	8
41	Absolute Calibration of Radar Altimeters: Consistency with Electromagnetic Modeling. Journal of Atmospheric and Oceanic Technology, 2005, 22, 771-781.	1.3	7
42	Aquarius whole range calibration: Celestial Sky, ocean, and land targets. , 2014, , .		7
43	Comparison of Aquarius measurements and radiative transfer models at L-band. , 2012, , .		4
44	L-band radiometry and reflection of the galaxy by a rough ocean surface. , 2008, , .		3
45	Assessing Long-Term Stability of SMOS Zero-Baseline Antenna Temperature Using the Aquarius Antenna Temperature Simulator. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1680-1684.	3.1	3
46	Seawater Dielectric Measurements at L-Band with Latest Improvements. , 2018, , .		3
47	Sensitivity of Wide Bandwidth Radiometer for Remote Sensing of Ocean Salinity. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	3
48	Surface emission. , 2006, , 225-426.		3
49	The influence of antenna pattern on Faraday rotation in remote sensing at L-band. , 2007, , .		2
50	Background emissions during cold sky calibration of Aquarius. , 2010, , .		2
51	Multi-frequency radiometer-based soil moisture retrieval algorithm parametrization using in situ validation sites. , 2017, , .		2
52	Smop Microwave Radiometer: Instrument Status and Calibration for the First Three Years of Operation. , 2018, , .		2
53	Intercalibration of Low Frequency Brightness Temperature Measurements For Long-Term Soil Moisture Record. , 2018, , .		2
54	L-, C- and X-Band Passive Microwave Soil Moisture Retrieval Algorithm Parameterization Using in Situ Validation Sites. , 2018, , .		2

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55	SMAP Observations of the Fourth Stokes Parameter At L-Band. , 2019, , .		2
56	Soil Moisture Active/Passive (SMAP) L-Band Microwave Radiometer Post-Launch Calibration Revisit: Approach and Performance. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 11406-11416.	4.9	2
57	Effects of the Antenna Aperture on Remote Sensing of Sea Surface Salinity at L-band.. , 0, , .		1
58	Comparison of SMOS and Aquarius Sea Surface Salinity and analysis of possible causes for the differences. , 2014, , .		1
59	Status of aquarius and the salinity retrieval. , 2016, , .		1
60	L-band radiometer calibration consistency assessment for the SMOS, SMAP and Aquarius instruments. , 2016, , .		1
61	Calibration and validation of the SMAP L-band radiometer. , 2016, , .		1
62	Sea surface salinity: Inter-comparison of satellite products, in situ measurements, and impact of differences in retrieval algorithm. , 2017, , .		1
63	ReCalibration and validation of the SMAP L-band radiometer. , 2017, , .		1
64	Intercomparison of brightness temperature measurements from SMAP and SMOS radiometers. , 2017, , .		1
65	The dielectric constant model function and implications for remote sensing of salinity. , 2017, , .		1
66	Status of Aquarius Salinity. , 2018, , .		1
67	Editorial for the Special Issue "Sea Surface Salinity Remote Sensing" Remote Sensing, 2019, 11, 1300.	4.0	1
68	L-Band Seawater Dielectric Model Function Based on Improved Measurement Data Set. , 2019, , .		1
69	Sea Surface Salinity Retrievals from Aquarius Using Neural Networks. , 2019, , .		1
70	Satellite Sea Surface Salinity: Evaluation of Products and Impact of Retrieval Algorithms. , 2019, , .		1
71	Measurement of SST and SSS Using Frequencies in the Range 0.3-2.0GHz. Radio Science, 2022, 57, .	1.6	1
72	Sun glint and sea surface salinity remote sensing. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
73	Spurious signal in measurement of the third Stokes parameter from space at L-band. , 2010, , .		0
74	Synthesizing SMOS zero-baselines with Aquarius brightness temperature simulator. , 2012, , .		0
75	Comparison of aquarius measurements over oceans with radiative transfer models at L-band. , 2012, , .		0
76	Aquarius RFI detection and mitigation. , 2013, , .		0
77	Aquarius radiometer status. , 2014, , .		0
78	Advances in calibration of the SMOS zero-baseline radiometers. , 2014, , .		0
79	Aquarius overview and up date. , 2014, , .		0
80	Recent improvements in L-band observations of ocean salinity by aquarius. , 2016, , .		0
81	Improved ICE fraction model for l-band remote sensing. , 2017, , .		0
82	Dielectric constant measurements for remote sensing of seawater salinity. , 2017, , .		0
83	Emissivity of Frozen Regions Retrieved from Aquarius Measurements. , 2018, , .		0
84	Aquarius Final Release Product and Full Range Calibration of L-Band Radiometers. , 2018, , .		0
85	A Theoretical Algorithm for the Retrieval of Sea Surface Salinity from Smap Observations. , 2019, , .		0
86	Lessons Learned from SMAP Radiometer Pre-/Post-launch Calibration. , 2021, , .		0
87	Spurious Signal in SMAP Fourth Stokes Parameter. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9472-9485.	6.3	0
88	Smap Microwave Radiometer Calibration Revisit Approaches and Performamnce. , 2020, , .		0
89	Debye Dielectric Model Function for Seawater Based on Expanded L-Band Measurement Data Set. , 2020, , .		0