

# Magdalena D Anguelova

## List of Publications by Year in descending order

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32  
papers

1,226  
citations

516710

16  
h-index

501196

28  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1734  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Experimental Study on Measuring Breaking-Wave Bubbles with LiDAR Remote Sensing. Remote Sensing, 2022, 14, 1680.	4.0	2
2	Big potential for tiny droplets. Nature Geoscience, 2021, 14, 543-544.	12.9	1
3	Improving the Representation of Whitecap Fraction and Sea Salt Aerosol Emissions in the ECMWF IFS-AER. Remote Sensing, 2021, 13, 4856.	4.0	5
4	Reference-Quality Emission and Backscatter Modeling for the Ocean. Bulletin of the American Meteorological Society, 2020, 101, E1593-E1601.	3.3	10
5	Global Whitecap Coverage from Satellite Remote Sensing and Wave Modelling. , 2020, , 153-174.		1
6	Absorption and Scattering by Sea Foam Streaks at Millimeter-Wave Frequencies. , 2020, , .		0
7	Brightness Temperature Sensitivity to Whitecap Fraction at Millimeter Wavelengths. Remote Sensing, 2019, 11, 2036.	4.0	6
8	Modeling L-Band Reflection and Emission From Seawater, Foam, and Whitecaps Using the Finite-Difference Time-Domain Method. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 682-686.	3.1	10
9	Whitecap Fraction From Satellite Measurements: Algorithm Description. Journal of Geophysical Research: Oceans, 2019, 124, 1827-1857.	2.6	28
10	Predicting Radiometric Effects of a Rough Sea Surface, Whitecaps, Foam, and Spray Using SURFER 2D. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3194-3207.	4.9	4
11	Effects of Salinity on Bubble Cloud Characteristics. Journal of Marine Science and Engineering, 2018, 6, 1.	2.6	41
12	Effects of Salinity on Surface Lifetime of Large Individual Bubbles. Journal of Marine Science and Engineering, 2017, 5, 41.	2.6	9
13	Parameterization of oceanic whitecap fraction based on satellite observations. Atmospheric Chemistry and Physics, 2016, 16, 13725-13751.	4.9	38
14	Using Energy Dissipation Rate to Obtain Active Whitecap Fraction. Journal of Physical Oceanography, 2016, 46, 461-481.	1.7	16
15	Comparing in situ and satellite-based parameterizations of oceanic whitecaps. Journal of Geophysical Research: Oceans, 2015, 120, 2826-2843.	2.6	11
16	Whitecap lifetime stages from infrared imagery with implications for microwave radiometric measurements of whitecap fraction. Journal of Geophysical Research: Oceans, 2015, 120, 7521-7537.	2.6	15
17	Global distribution and seasonal dependence of satellite-based whitecap fraction. Geophysical Research Letters, 2014, 41, 1616-1623.	4.0	33
18	On direct passive microwave remote sensing of sea spray aerosol production. Atmospheric Chemistry and Physics, 2014, 14, 11611-11631.	4.9	17

#	ARTICLE	IF	CITATIONS
19	Microwave emissivity of sea foam layers with vertically inhomogeneous dielectric properties. Remote Sensing of Environment, 2013, 139, 81-96.	11.0	53
20	On the variability of whitecap fraction using satellite-based observations. Journal of Geophysical Research: Oceans, 2013, 118, 6201-6222.	2.6	59
21	Effects of foam and wind waves on microwave ocean emission. , 2012, , .		1
22	Characteristics of bubble clouds at various wind speeds. Journal of Geophysical Research, 2012, 117, .	3.3	22
23	Dielectric and Radiative Properties of Sea Foam at Microwave Frequencies: Conceptual Understanding of Foam Emissivity. Remote Sensing, 2012, 4, 1162-1189.	4.0	36
24	Aerial Radiometric and Video Measurements of Whitecap Coverage. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2183-2193.	6.3	10
25	Production flux of sea spray aerosol. Reviews of Geophysics, 2011, 49, .	23.0	458
26	Skin depth at microwave frequencies of sea foam layers with vertical profile of void fraction. Journal of Geophysical Research, 2011, 116, .	3.3	36
27	Primary Marine Aerosol Fluxes. Bulletin of the American Meteorological Society, 2011, 92, 489-491.	3.3	3
28	Foam emissivity models for microwave observations of oceans from space. , 2009, , .		4
29	Complex dielectric constant of sea foam at microwave frequencies. Journal of Geophysical Research, 2008, 113, .	3.3	44
30	On the correlation of area-extensive measurement of fractional area whitecap coverage with microwave brightness temperatures. , 2008, , .		0
31	Whitecap coverage from satellite measurements: A first step toward modeling the variability of oceanic whitecaps. Journal of Geophysical Research, 2006, 111, .	3.3	166
32	Spume Drops Produced by the Wind Tearing of Wave Crests. Journal of Physical Oceanography, 1999, 29, 1156-1165.	1.7	44