

Magdalena D Anguelova

List of Publications by Year in descending order

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Version: 2024-02-01

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	Production flux of sea spray aerosol. <i>Reviews of Geophysics</i> , 2011, 49, .	23.0	458
2	Whitecap coverage from satellite measurements: A first step toward modeling the variability of oceanic whitecaps. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	166
3	On the variability of whitecap fraction using satellite-based observations. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6201-6222.	2.6	59
4	Microwave emissivity of sea foam layers with vertically inhomogeneous dielectric properties. <i>Remote Sensing of Environment</i> , 2013, 139, 81-96.	11.0	53
5	Spume Drops Produced by the Wind Tearing of Wave Crests. <i>Journal of Physical Oceanography</i> , 1999, 29, 1156-1165.	1.7	44
6	Complex dielectric constant of sea foam at microwave frequencies. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	44
7	Effects of Salinity on Bubble Cloud Characteristics. <i>Journal of Marine Science and Engineering</i> , 2018, 6, 1.	2.6	41
8	Parameterization of oceanic whitecap fraction based on satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13725-13751.	4.9	38
9	Skin depth at microwave frequencies of sea foam layers with vertical profile of void fraction. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	36
10	Dielectric and Radiative Properties of Sea Foam at Microwave Frequencies: Conceptual Understanding of Foam Emissivity. <i>Remote Sensing</i> , 2012, 4, 1162-1189.	4.0	36
11	Global distribution and seasonal dependence of satellite-based whitecap fraction. <i>Geophysical Research Letters</i> , 2014, 41, 1616-1623.	4.0	33
12	Whitecap Fraction From Satellite Measurements: Algorithm Description. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 1827-1857.	2.6	28
13	Characteristics of bubble clouds at various wind speeds. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	22
14	On direct passive microwave remote sensing of sea spray aerosol production. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11611-11631.	4.9	17
15	Using Energy Dissipation Rate to Obtain Active Whitecap Fraction. <i>Journal of Physical Oceanography</i> , 2016, 46, 461-481.	1.7	16
16	Whitecap lifetime stages from infrared imagery with implications for microwave radiometric measurements of whitecap fraction. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 7521-7537.	2.6	15
17	Comparing in situ and satellite-based parameterizations of oceanic whitecaps. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 2826-2843.	2.6	11
18	Aerial Radiometric and Video Measurements of Whitecap Coverage. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 2183-2193.	6.3	10

#	ARTICLE	IF	CITATIONS
19	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
20	Reference-Quality Emission and Backscatter Modeling for the Ocean. Bulletin of the American Meteorological Society, 2020, 101, E1593-E1601.	3.3	10
21	Effects of Salinity on Surface Lifetime of Large Individual Bubbles. Journal of Marine Science and Engineering, 2017, 5, 41.	2.6	9
22	Brightness Temperature Sensitivity to Whitecap Fraction at Millimeter Wavelengths. Remote Sensing, 2019, 11, 2036.	4.0	6
23	Improving the Representation of Whitecap Fraction and Sea Salt Aerosol Emissions in the ECMWF IFS-AER. Remote Sensing, 2021, 13, 4856.	4.0	5
24	Foam emissivity models for microwave observations of oceans from space. , 2009, , .		4
25	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
26	Primary Marine Aerosol Fluxes. Bulletin of the American Meteorological Society, 2011, 92, 489-491.	3.3	3
27	An Experimental Study on Measuring Breaking-Wave Bubbles with LiDAR Remote Sensing. Remote Sensing, 2022, 14, 1680.	4.0	2
28	Effects of foam and wind waves on microwave ocean emission. , 2012, , .		1
29	Big potential for tiny droplets. Nature Geoscience, 2021, 14, 543-544.	12.9	1
30	Global Whitecap Coverage from Satellite Remote Sensing and Wave Modelling. , 2020, , 153-174.		1
31	On the correlation of area-extensive measurement of fractional area whitecap coverage with microwave brightness temperatures. , 2008, , .		0
32	Absorption and Scattering by Sea Foam Streaks at Millimeter-Wave Frequencies. , 2020, , .		0