

# B W Blomquist

## List of Publications by Year in descending order

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76  
papers

3,573  
citations

87888

38  
h-index

149698

56  
g-index

96  
all docs

96  
docs citations

96  
times ranked

3749  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Hybrid Bulk Algorithm to Predict Turbulent Fluxes over Dry and Wet Bare Soils. <i>Journal of Applied Meteorology and Climatology</i> , 2022, 61, 393-414.	1.5	2
2	Overview of the MOSAiC expedition: Atmosphere. <i>Elementa</i> , 2022, 10, .	3.2	121
3	Ocean bubbles under high wind conditions – Part 2: Bubble size distributions and implications for models of bubble dynamics. <i>Ocean Science</i> , 2022, 18, 587-608.	3.4	5
4	Ocean bubbles under high wind conditions – Part 1: Bubble distribution and development. <i>Ocean Science</i> , 2022, 18, 565-586.	3.4	5
5	On the surface energy balance closure at different temporal scales. <i>Agricultural and Forest Meteorology</i> , 2020, 281, 107823.	4.8	19
6	The Observed Water Vapor Budget in an Atmospheric River over the Northeast Pacific. <i>Journal of Hydrometeorology</i> , 2020, 21, 2655-2673.	1.9	3
7	Assessing Surface Heat Flux Products with In Situ Observations over the Australian Sector of the Southern Ocean. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 1849-1861.	1.3	5
8	Air–Sea Heat and Momentum Fluxes in the Southern Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12426-12443.	3.3	12
9	CASPER: Coupled Air–Sea Processes and Electromagnetic Ducting Research. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1449-1471.	3.3	99
10	Aerial Observations of Symmetric Instability at the North Wall of the Gulf Stream. <i>Geophysical Research Letters</i> , 2018, 45, 236-244.	4.0	16
11	Air–Sea/Land Interaction in the Coastal Zone. <i>Boundary-Layer Meteorology</i> , 2018, 167, 181-210.	2.3	49
12	Shipboard Observations of the Meteorology and Near-Surface Environment During Autumn Freezeup in the Beaufort/Chukchi Seas. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4930-4969.	2.6	14
13	Evaluating the Use of Different Flux-Gradient Functions in NAVSLaM During Two Experiments. , 2018, , .		4
14	Low-Level Baroclinic Jets Over the New Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4074-4091.	2.6	16
15	Doppler Correction of Wave Frequency Spectra Measured by Underway Vessels. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 429-436.	1.3	17
16	Air–Sea exchange of biogenic volatile organic compounds and the impact on aerosol particle size distributions. <i>Geophysical Research Letters</i> , 2017, 44, 3887-3896.	4.0	42
17	Measuring ocean waves in sea ice using SAR imagery: A quasi-deterministic approach evaluated with Sentinel-1 and in situ data. <i>Remote Sensing of Environment</i> , 2017, 189, 211-222.	11.0	50
18	Whitecap Coverage Dependence on Wind and Wave Statistics as Observed during SO GasEx and HiWinGS. <i>Journal of Physical Oceanography</i> , 2017, 47, 2211-2235.	1.7	62

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19	Wave-Related Reynolds Number Parameterizations of CO <sub>2</sub> and DMS Transfer Velocities. <i>Geophysical Research Letters</i> , 2017, 44, 9865-9875.	4.0	40
20	Wind Speed and Sea State Dependencies of Air-Sea Gas Transfer: Results From the High Wind Speed Gas Exchange Study (HiWinGS). <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 8034-8062.	2.6	47
21	Revisiting benzene cluster cations for the chemical ionization of dimethyl sulfide and select volatile organic compounds. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 1473-1484.	3.1	19
22	Air-sea transfer of gas phase controlled compounds. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 35, 012011.	0.3	9
23	The MATERHORN: Unraveling the Intricacies of Mountain Weather. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1945-1967.	3.3	145
24	Measurements of diurnal variations and eddy covariance (EC) fluxes of glyoxal in the tropical marine boundary layer: description of the Fast LED-CE-DOAS instrument. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3579-3595.	3.1	49
25	Advances in Air-Sea CO <sub>2</sub> Flux Measurement by Eddy Correlation. <i>Boundary-Layer Meteorology</i> , 2014, 152, 245-276.	2.3	49
26	Dimethyl sulfide: Less important than long-range transport as a source of sulfate to the remote tropical Pacific marine boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9142-9167.	3.3	14
27	Air-sea exchange of methanol and acetone during HiWinGS: Estimation of air phase, water phase gas transfer velocities. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 7308-7323.	2.6	37
28	Air-sea fluxes of oxygenated volatile organic compounds across the Atlantic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7499-7517.	4.9	70
29	Atmospheric deposition of methanol over the Atlantic Ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20034-20039.	7.1	63
30	Measurements of OVOC fluxes by eddy covariance using a proton-transfer-reaction mass spectrometer method development at a coastal site. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6165-6184.	4.9	31
31	Lagrangian evolution of DMS during the Southern Ocean gas exchange experiment: The effects of vertical mixing and biological community shift. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6774-6790.	2.6	14
32	Direct measurement of the oceanic carbon monoxide flux by eddy correlation. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 3069-3075.	3.1	23
33	Air-sea exchange of dimethylsulfide in the Southern Ocean: Measurements from SO GasEx compared to temperate and tropical regions. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	66
34	Implementation of the Coupled Ocean-Atmosphere Response Experiment flux algorithm with CO <sub>2</sub> , dimethyl sulfide, and O <sub>3</sub> . <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	85
35	Impact of an artificial surfactant release on air-sea gas fluxes during Deep Ocean Gas Exchange Experiment II. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	84
36	Atmospheric sulfur cycling in the southeastern Pacific longitudinal distribution, vertical profile, and diel variability observed during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5079-5097.	4.9	50

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37	Pacific Atmospheric Sulfur Experiment (PASE): dynamics and chemistry of the south Pacific tropical trade wind regime. <i>Journal of Atmospheric Chemistry</i> , 2011, 68, 5-25.	3.2	13
38	Determining the sea-air flux of dimethylsulfide by eddy correlation using mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1-20.	3.1	73
39	Linearity of DMS transfer coefficient with both friction velocity and wind speed in the moderate wind speed range. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	35
40	Physical Exchanges at the Air-Sea Interface: UK SOLAS Field Measurements. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 629-644.	3.3	52
41	Sulfur dioxide in the tropical marine boundary layer: dry deposition and heterogeneous oxidation observed during the Pacific Atmospheric Sulfur Experiment. <i>Journal of Atmospheric Chemistry</i> , 2009, 63, 13-32.	3.2	56
42	Constraining the concentration of the hydroxyl radical in a stratocumulus-topped marine boundary layer from sea-to-air eddy covariance flux measurements of dimethylsulfide. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9225-9236.	4.9	37
43	Closing the dimethyl sulfide budget in the tropical marine boundary layer during the Pacific Atmospheric Sulfur Experiment. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8745-8756.	4.9	31
44	Supplement to Physical Exchanges at the Air-Sea Interface: UK SOLAS Field Measurements. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, ES9-ES16.	3.3	5
45	Dimethylsulfide production in Sargasso Sea eddies. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1491-1504.	1.4	38
46	DMS sea-air transfer velocity: Direct measurements by eddy covariance and parameterization based on the NOAA/COARE gas transfer model. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	79
47	Observations of Entrainment in Eastern Pacific Marine Stratocumulus Using Three Conserved Scalars. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 3268-3285.	1.7	132
48	PELTI: Measuring the Passing Efficiency of an Airborne Low Turbulence Aerosol Inlet. <i>Aerosol Science and Technology</i> , 2004, 38, 803-826.	3.1	55
49	Transport and transformation of sulfur compounds over East Asia during the TRACE-P and ACE-Asia campaigns. <i>Atmospheric Environment</i> , 2004, 38, 6947-6959.	4.1	64
50	Spatial distribution and size evolution of particles in Asian outflow: Significance of primary and secondary aerosols during ACE-Asia and TRACE-P. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	34
51	Measurement of the sea-air DMS flux and transfer velocity using eddy correlation. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	91
52	Aerosol composition and size versus altitude measured from the C-130 during ACE-Asia. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	55
53	Measurements of organic and elemental carbon in Asian outflow during ACE-Asia from the NSF/NCAR C-130. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	64
54	Secondary aerosol formation in continental outflow conditions during ACE-Asia. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	30

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55	On entrainment rates in nocturnal marine stratocumulus. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 3469-3493.	2.7	143
56	An intercomparison of lidar-derived aerosol optical properties with airborne measurements near Tokyo during ACE-Asia. Journal of Geophysical Research, 2003, 108, .	3.3	60
57	A global aerosol model forecast for the ACE-Asia field experiment. Journal of Geophysical Research, 2003, 108, .	3.3	78
58	Dynamics and Chemistry of Marine Stratocumulusâ€”DYCOMS-II. Bulletin of the American Meteorological Society, 2003, 84, 579-594.	3.3	209
59	Fast airborne sulfur dioxide measurements by Atmospheric Pressure Ionization Mass Spectrometry (APIMS). Journal of Geophysical Research, 2002, 107, ACH 13-1.	3.3	41
60	Determination of the vertical flux of dimethyl sulfide by eddy correlation and atmospheric pressure ionization mass spectrometry (APIMS). Journal of Geophysical Research, 2002, 107, ACH 3-1.	3.3	37
61	An Evaluation of the Community Aerosol Inlet for the NCAR C-130 Research Aircraft. Journal of Atmospheric and Oceanic Technology, 2001, 18, 1387-1397.	1.3	31
62	Title is missing!. Journal of Atmospheric Chemistry, 2000, 37, 137-160.	3.2	50
63	Volcano fixes nitrogen into plant-available forms. Biogeochemistry, 1999, 47, 111-118.	3.5	81
64	Volcano fixes nitrogen into plant-available forms. Biogeochemistry, 1999, 47, 111-118.	3.5	14
65	Vertical transport of sulfur dioxide and dimethyl sulfide in deep convection and its role in new particle formation. Journal of Geophysical Research, 1997, 102, 28501-28509.	3.3	50
66	Transport of sulfur dioxide from the Asian Pacific Rim to the North Pacific troposphere. Journal of Geophysical Research, 1997, 102, 28489-28499.	3.3	20
67	Impact of anthropogenic and biogenic sources and sinks on carbonyl sulfide in the North Pacific troposphere. Journal of Geophysical Research, 1996, 101, 1873-1881.	3.3	43
68	Sulfur gas measurements in the eastern North Atlantic Ocean during the Atlantic Stratocumulus Transition Experiment/Marine Aerosol and Gas Exchange. Journal of Geophysical Research, 1996, 101, 4377-4392.	3.3	19
69	The ASTEX/MAGE Experiment. Journal of Geophysical Research, 1996, 101, 4319-4329.	3.3	44
70	Sulfur dioxide as a source of condensation nuclei in the upper troposphere of the Pacific Ocean. Journal of Geophysical Research, 1996, 101, 1883-1890.	3.3	45
71	Chemistry of dimethyl sulfide in the equatorial Pacific atmosphere. Geophysical Research Letters, 1996, 23, 741-744.	4.0	97
72	An international marine-atmospheric Rn-222 measurement intercomparison in Bermuda .2. Results for the participating laboratories. Journal of Research of the National Institute of Standards and Technology, 1996, 101, 21.	1.2	8

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73	Grab sampling for the determination of sulfur dioxide and dimethyl sulfide in air by isotope dilution gas chromatography/mass spectrometry. <i>Journal of Atmospheric Chemistry</i> , 1993, 16, 23-30.	3.2	9
74	Key Sulfur-Containing Compounds in the Atmosphere and Ocean. <i>ACS Symposium Series</i> , 1992, , 409-422.	0.5	9
75	Low yields of SO <sub>2</sub> from dimethyl sulfide oxidation in the marine boundary layer. <i>Geophysical Research Letters</i> , 1992, 19, 1125-1127.	4.0	80
76	Global Synthesis of Air-Sea CO <sub>2</sub> Transfer Velocity Estimates From Ship-Based Eddy Covariance Measurements. <i>Frontiers in Marine Science</i> , 0, 9, .	2.5	9