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	Dynamics and Chemistry of Marine Stratocumulusâ€"DYCOMS-II. Bulletin of the American Meteorological Society, 2003, 84, 579-594.	3.3	209
2	The MATERHORN: Unraveling the Intricacies of Mountain Weather. Bulletin of the American Meteorological Society, 2015, 96, 1945-1967.	3.3	145
3	On entrainment rates in nocturnal marine stratocumulus. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 3469-3493.	2.7	143
4	Observations of Entrainment in Eastern Pacific Marine Stratocumulus Using Three Conserved Scalars. Journals of the Atmospheric Sciences, 2005, 62, 3268-3285.	1.7	132
5	Overview of the MOSAiC expedition: Atmosphere. Elementa, 2022, 10, .	3.2	121
6	CASPER: Coupled Airâ€"Sea Processes and Electromagnetic Ducting Research. Bulletin of the American Meteorological Society, 2018, 99, 1449-1471.	3.3	99
7	Chemistry of dimethyl sulfide in the equatorial Pacific atmosphere. Geophysical Research Letters, 1996, 23, 741-744.	4.0	97
8	Measurement of the sea-air DMS flux and transfer velocity using eddy correlation. Geophysical Research Letters, 2004, 31, .	4.0	91
9	Implementation of the Coupled Ocean-Atmosphere Response Experiment flux algorithm with CO₂, dimethyl sulfide, and O₃. Journal of Geophysical Research, 2011, 116, .	3.3	85
10	Impact of an artificial surfactant release on airâ€sea gas fluxes during Deep Ocean Gas Exchange Experiment II. Journal of Geophysical Research, 2011, 116, .	3.3	84
11	Volcano fixes nitrogen into plant-available forms. Biogeochemistry, 1999, 47, 111-118.	3.5	81
12	Low yields of SO₂ from dimethyl sulfide oxidation in the marine boundary layer. Geophysical Research Letters, 1992, 19, 1125-1127.	4.0	80
13	DMS sea-air transfer velocity: Direct measurements by eddy covariance and parameterization based on the NOAA/COARE gas transfer model. Geophysical Research Letters, 2006, 33, .	4.0	79
14	A global aerosol model forecast for the ACE-Asia field experiment. Journal of Geophysical Research, 2003, 108, .	3.3	78
15	Determining the sea-air flux of dimethylsulfide by eddy correlation using mass spectrometry. Atmospheric Measurement Techniques, 2010, 3, 1-20.	3.1	73
16	Airâ€"sea fluxes of oxygenated volatile organic compounds across the Atlantic Ocean. Atmospheric Chemistry and Physics, 2014, 14, 7499-7517.	4.9	70
17	Air-sea exchange of dimethylsulfide in the Southern Ocean: Measurements from SO GasEx compared to temperate and tropical regions. Journal of Geophysical Research, 2011, 116, .	3.3	66
18	Transport and transformation of sulfur compounds over East Asia during the TRACE-P and ACE-Asia campaigns. Atmospheric Environment, 2004, 38, 6947-6959.	4.1	64

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19	Measurements of organic and elemental carbon in Asian outflow during ACE-Asia from the NSF/NCAR C-130. Journal of Geophysical Research, 2004, 109, .	3.3	64
20	Atmospheric deposition of methanol over the Atlantic Ocean. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20034-20039.	7.1	63
21	Whitecap Coverage Dependence on Wind and Wave Statistics as Observed during SO GasEx and HiWinGS. Journal of Physical Oceanography, 2017, 47, 2211-2235.	1.7	62
22	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
23	Sulfur dioxide in the tropical marine boundary layer: dry deposition and heterogeneous oxidation observed during the Pacific Atmospheric Sulfur Experiment. Journal of Atmospheric Chemistry, 2009, 63, 13-32.	3.2	56
24	PELTI: Measuring the Passing Efficiency of an Airborne Low Turbulence Aerosol Inlet. Aerosol Science and Technology, 2004, 38, 803-826.	3.1	55
25	Aerosol composition and size versus altitude measured from the C-130 during ACE-Asia. Journal of Geophysical Research, 2004, 109, .	3.3	55
26	Physical Exchanges at the Airâ€“Sea Interface: UKâ€“SOLAS Field Measurements. Bulletin of the American Meteorological Society, 2009, 90, 629-644.	3.3	52
27	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
28	Title is missing!. Journal of Atmospheric Chemistry, 2000, 37, 137-160.	3.2	50
29	Atmospheric sulfur cycling in the southeastern Pacific â€“ longitudinal distribution, vertical profile, and diel variability observed during VOCALS-REx. Atmospheric Chemistry and Physics, 2011, 11, 5079-5097.	4.9	50
30	Measuring ocean waves in sea ice using SAR imagery: A quasi-deterministic approach evaluated with Sentinel-1 and in situ data. Remote Sensing of Environment, 2017, 189, 211-222.	11.0	50
31	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. Atmospheric Measurement Techniques, 2014, 7, 3579-3595.	3.1	49
32	Advances in Airâ€“Sea $$hbox {CO}_2$$ CO 2 Flux Measurement by Eddy Correlation. Boundary-Layer Meteorology, 2014, 152, 245-276.	2.3	49
33	Airâ€“Sea/Land Interaction in the Coastal Zone. Boundary-Layer Meteorology, 2018, 167, 181-210.	2.3	49
34	Wind Speed and Sea State Dependencies of Airâ€Sea Gas Transfer: Results From the High Wind Speed Gas Exchange Study (HiWinGS). Journal of Geophysical Research: Oceans, 2017, 122, 8034-8062.	2.6	47
35	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
36	The ASTEX/MAGE Experiment. Journal of Geophysical Research, 1996, 101, 4319-4329.	3.3	44

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37	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
38	Airâ€Sea exchange of biogenic volatile organic compounds and the impact on aerosol particle size distributions. Geophysical Research Letters, 2017, 44, 3887-3896.	4.0	42
39	Fast airborne sulfur dioxide measurements by Atmospheric Pressure Ionization Mass Spectrometry (APIMS). Journal of Geophysical Research, 2002, 107, ACH 13-1.	3.3	41
40	Waveâ€Related Reynolds Number Parameterizations of CO₂ and DMS Transfer Velocities. Geophysical Research Letters, 2017, 44, 9865-9875.	4.0	40
41	Dimethylsulfide production in Sargasso Sea eddies. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1491-1504.	1.4	38
42	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
43	Constraining the concentration of the hydroxyl radical in a stratocumulus-topped marine boundary layer from sea-to-air eddy covariance flux measurements of dimethylsulfide. Atmospheric Chemistry and Physics, 2009, 9, 9225-9236.	4.9	37
44	Airâ€sea exchange of methanol and acetone during HiWinGS: Estimation of air phase, water phase gas transfer velocities. Journal of Geophysical Research: Oceans, 2014, 119, 7308-7323.	2.6	37
45	Linearity of DMS transfer coefficient with both friction velocity and wind speed in the moderate wind speed range. Geophysical Research Letters, 2010, 37, .	4.0	35
46	Spatial distribution and size evolution of particles in Asian outflow: Significance of primary and secondary aerosols during ACE-Asia and TRACE-P. Journal of Geophysical Research, 2004, 109, .	3.3	34
47	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
48	Closing the dimethyl sulfide budget in the tropical marine boundary layer during the Pacific Atmospheric Sulfur Experiment. Atmospheric Chemistry and Physics, 2009, 9, 8745-8756.	4.9	31
49	Measurements of OVOC fluxes by eddy covariance using a proton-transfer-reaction mass spectrometer â€“ method development at a coastal site. Atmospheric Chemistry and Physics, 2013, 13, 6165-6184.	4.9	31
50	Secondary aerosol formation in continental outflow conditions during ACE-Asia. Journal of Geophysical Research, 2004, 109, .	3.3	30
51	Direct measurement of the oceanic carbon monoxide flux by eddy correlation. Atmospheric Measurement Techniques, 2012, 5, 3069-3075.	3.1	23
52	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
53	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
54	Revisiting benzene cluster cations for the chemical ionization of dimethyl sulfide and select volatile organic compounds. Atmospheric Measurement Techniques, 2016, 9, 1473-1484.	3.1	19

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55	On the surface energy balance closure at different temporal scales. Agricultural and Forest Meteorology, 2020, 281, 107823.	4.8	19
56	Doppler Correction of Wave Frequency Spectra Measured by Underway Vessels. Journal of Atmospheric and Oceanic Technology, 2017, 34, 429-436.	1.3	17
57	Aerial Observations of Symmetric Instability at the North Wall of the Gulf Stream. Geophysical Research Letters, 2018, 45, 236-244.	4.0	16
58	Lowâ€Level Baroclinic Jets Over the New Arctic Ocean. Journal of Geophysical Research: Oceans, 2018, 123, 4074-4091.	2.6	16
59	Volcano fixes nitrogen into plant-available forms. Biogeochemistry, 1999, 47, 111-118.	3.5	14
60	Lagrangian evolution of DMS during the Southern Ocean gas exchange experiment: The effects of vertical mixing and biological community shift. Journal of Geophysical Research: Oceans, 2013, 118, 6774-6790.	2.6	14
61	Dimethyl sulfide: Less important than longâ€range transport as a source of sulfate to the remote tropical Pacific marine boundary layer. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9142-9167.	3.3	14
62	Shipboard Observations of the Meteorology and Nearâ€Surface Environment During Autumn Freezeup in the Beaufort/Chukchi Seas. Journal of Geophysical Research: Oceans, 2018, 123, 4930-4969.	2.6	14
63	Pacific Atmospheric Sulfur Experiment (PASE): dynamics and chemistry of the south Pacific tropical trade wind regime. Journal of Atmospheric Chemistry, 2011, 68, 5-25.	3.2	13
64	Airâ€Sea Heat and Momentum Fluxes in the Southern Ocean. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12426-12443.	3.3	12
65	Key Sulfur-Containing Compounds in the Atmosphere and Ocean. ACS Symposium Series, 1992, , 409-422.	0.5	9
66	Grab sampling for the determination of sulfur dioxide and dimethyl sulfide in air by isotope dilution gas chromatography/mass spectrometry. Journal of Atmospheric Chemistry, 1993, 16, 23-30.	3.2	9
67	Air-sea transfer of gas phase controlled compounds. IOP Conference Series: Earth and Environmental Science, 2016, 35, 012011.	0.3	9
68	Global Synthesis of Air-Sea CO2 Transfer Velocity Estimates From Ship-Based Eddy Covariance Measurements. Frontiers in Marine Science, 0, 9, .	2.5	9
69	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
70	Supplement to Physical Exchanges at the Airâ€“Sea Interface: UKâ€“SOLAS Field Measurements. Bulletin of the American Meteorological Society, 2009, 90, ES9-ES16.	3.3	5
71	Assessing Surface Heat Flux Products with In Situ Observations over the Australian Sector of the Southern Ocean. Journal of Atmospheric and Oceanic Technology, 2019, 36, 1849-1861.	1.3	5
72	Ocean bubbles under high wind conditions â€“ Part 2: Bubble size distributions and implications for models of bubble dynamics. Ocean Science, 2022, 18, 587-608.	3.4	5

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73	Ocean bubbles under high wind conditions â€“ Part 1: Bubble distribution and development. Ocean Science, 2022, 18, 565-586.	3.4	5
74	Evaluating the Use of Different Flux-Gradient Functions in NAVSLaM During Two Experiments. , 2018, , .		4
75	The Observed Water Vapor Budget in an Atmospheric River over the Northeast Pacific. Journal of Hydrometeorology, 2020, 21, 2655-2673.	1.9	3
76	A Hybrid Bulk Algorithm to Predict Turbulent Fluxes over Dry and Wet Bare Soils. Journal of Applied Meteorology and Climatology, 2022, 61, 393-414.	1.5	2