Ralf M Staebler

List of Publications by Year
in descending order

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78 papers	4,322 citations	101543 36 h-index	118850 62 g-index
106 all docs	106 docs citations	106 times ranked	6115 citing authors

#	Article	IF	Citations
1	Observed increase in local cooling effect of deforestation at higher latitudes. Nature, 2011, 479, 384-387.	27.8	543
2	Leaf chlorophyll content as a proxy for leaf photosynthetic capacity. Global Change Biology, 2017, 23, 3513-3524.	9.5	404
3	Responses of net ecosystem exchanges of carbon dioxide to changes in cloudiness: Results from two North American deciduous forests. Journal of Geophysical Research, 1999, 104, 31421-31434.	3.3	222
4	Observing subcanopy CO2 advection. Agricultural and Forest Meteorology, 2004, 122, 139-156.	4.8	177
5	Oil sands operations as a large source of secondary organic aerosols. Nature, 2016, 534, 91-94.	27.8	136
6	Long-term observation of the atmospheric exchange of CO2with a temperate deciduous forest in southern Ontario, Canada. Journal of Geophysical Research, 1999, 104, 15975-15984.	3.3	134
7	Overview paper: New insights into aerosol and climate in the Arctic. Atmospheric Chemistry and Physics, 2019, 19, 2527-2560.	4.9	134
8	Measurement of DDT Fluxes from a Historically Treated Agricultural Soil in Canada. Environmental Science & Technology, 2006, 40, 4578-4585.	10.0	106
9	High levels of molecular chlorine in the Arctic atmosphere. Nature Geoscience, 2014, 7, 91-94.	12.9	105
10	Evaluation of the particle infiltration efficiency of three passive samplers and the PS-1 active air sampler. Atmospheric Environment, 2015, 112, 289-293.	4.1	95
11	Determining air pollutant emission rates based on mass balance using airborne measurement data over the Alberta oil sands operations. Atmospheric Measurement Techniques, 2015, 8, 3745-3765.	3.1	94
12	Are Emissions of Black Carbon from Gasoline Vehicles Underestimated? Insights from Near and On-Road Measurements. Environmental Science & Technology, 2012, 46, 4819-4828.	10.0	91
13	Reactive uptake of ammonia to secondary organic aerosols: kinetics of organonitrogen formation. Atmospheric Chemistry and Physics, 2015, 15, 13569-13584.	4.9	90
14	Land-use change effects on local energy, water, and carbon balances in an Amazonian agricultural field. Global Change Biology, 2004, 10, 895-907.	9.5	88
15	A comparison of sap flow and eddy fluxes of water vapor from a boreal deciduous forest. Journal of Geophysical Research, 1997, 102, 28929-28937.	3.3	85
16	Convective forcing of mercury and ozone in the Arctic boundary layer induced by leads in sea ice. Nature, 2014, 506, 81-84.	27.8	79
17	Differences between measured and reported volatile organic compound emissions from oil sands facilities in Alberta, Canada. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3756-E3765.	7.1	75
18	Airâ^'Water Exchange of Anthropogenic and Natural Organohalogens on International Polar Year (IPY) Expeditions in the Canadian Arctic. Environmental Science & Technology, 2011, 45, 876-881.	10.0	72

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19	Direct detection of atmospheric atomic bromine leading to mercury and ozone depletion. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14479-14484.	7.1	68
20	Comparison of Bigâ€Leaf, Twoâ€Bigâ€Leaf, and Twoâ€Leaf Upscaling Schemes for Evapotranspiration Estimation Using Coupled Carbonâ€Water Modeling. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 207-225.	3.0	64
21	Airâ€“snowpack exchange of bromine, ozone and mercury in the springtime Arctic simulated by the 1-D model PHANTAS â€“ Part 1: In-snow bromine activation and its impact on ozone. Atmospheric Chemistry and Physics, 2014, 14, 4101-4133.	4.9	60
22	Measurements of Gas phase Acids in Diesel Exhaust: A Relevant Source of HNCO?. Environmental Science & Technology, 2013, 47, 7663-7671.	10.0	59
23	Measuring Canopy Structure and the Kinematics of Subcanopy Flows in Two Forests. Journal of Applied Meteorology and Climatology, 2005, 44, 1161-1179.	1.7	54
24	Air quality monitoring in communities of the Canadian Arctic during the high shipping season with a focus on local and marine pollution. Atmospheric Chemistry and Physics, 2015, 15, 2651-2673.	4.9	54
25	Frost flowers growing in the Arctic oceanâ€atmosphereâ€“sea iceâ€“snow interface: 1. Chemical composition. Journal of Geophysical Research, 2012, 117, .	3.3	53
26	Diurnal and seasonal variability in size-dependent atmospheric deposition fluxes of polycyclic aromatic hydrocarbons in an urban center. Atmospheric Environment, 2012, 57, 41-48.	4.1	53
27	Ozone dynamics and snowâ€atmosphere exchanges during ozone depletion events at Barrow, Alaska. Journal of Geophysical Research, 2012, 117, .	3.3	52
28	Remote sensing of canopy light use efficiency in temperate and boreal forests of North America using MODIS imagery. Remote Sensing of Environment, 2012, 118, 60-72.	11.0	49
29	Trends of carbon fluxes and climate over a mixed temperateâ€“boreal transition forest in southern Ontario, Canada. Agricultural and Forest Meteorology, 2015, 211-212, 72-84.	4.8	47
30	Measured Canadian oil sands CO2 emissions are higher than estimates made using internationally recommended methods. Nature Communications, 2019, 10, 1863.	12.8	46
31	Amazon rain forest subcanopy flow and the carbon budget: SantarÃ©m LBAâ€ECO site. Journal of Geophysical Research, 2008, 113, .	3.3	44
32	Evaluation and Intercomparison of Five North American Dry Deposition Algorithms at a Mixed Forest Site. Journal of Advances in Modeling Earth Systems, 2018, 10, 1571-1586.	3.8	43
33	Aerosol size distributions in Arctic haze during the Polar Sunrise Experiment 1992. Journal of Geophysical Research, 1994, 99, 25429.	3.3	42
34	Physical and chemical characteristics of aerosols at Spitsbergen in the spring of 1996. Journal of Geophysical Research, 1999, 104, 5515-5529.	3.3	42
35	Atmospheric mercury over sea ice during the OASIS-2009 campaign. Atmospheric Chemistry and Physics, 2013, 13, 7007-7021.	4.9	42
36	Incorporating leaf chlorophyll content into a two-leaf terrestrial biosphere model for estimating carbon and water fluxes at a forest site. Agricultural and Forest Meteorology, 2018, 248, 156-168.	4.8	40

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37	Tropospheric Emission Spectrometer (TES) satellite observations of ammonia, methanol, formic acid, and carbon monoxide over the Canadian oil sands: validation and model evaluation. Atmospheric Measurement Techniques, 2015, 8, 5189-5211.	3.1	37
38	Measured and modeled variation in pollutant concentration near roadways. Atmospheric Environment, 2012, 57, 138-145.	4.1	35
39	Understanding the primary emissions and secondary formation of gaseous organic acids in the oil sands region of Alberta, Canada. Atmospheric Chemistry and Physics, 2017, 17, 8411-8427.	4.9	33
40	Ship emissions measurement in the Arctic by plume intercepts of the Canadian Coast Guard icebreaker <i>Amundsen</i> from the <i>Polar 6</i> aircraft platform. Atmospheric Chemistry and Physics, 2016, 16, 7899-7916.	4.9	32
41	Inferring nocturnal surface fluxes from vertical profiles of scalars in an Amazon pasture. Global Change Biology, 2004, 10, 886-894.	9.5	29
42	Assimilation of SMOS soil moisture over the Great Lakes basin. Remote Sensing of Environment, 2015, 169, 163-175.	11.0	29
43	Radiation contributed more than temperature to increased decadal autumn and annual carbon uptake of two eastern North America mature forests. Agricultural and Forest Meteorology, 2015, 201, 8-16.	4.8	26
44	Three-dimensional characterization of the ammonia plume from a beef cattle feedlot. Atmospheric Environment, 2009, 43, 6091-6099.	4.1	25
45	Regular airborne surveys of Arctic sea ice and atmosphere. Eos, 2012, 93, 41-42.	0.1	25
46	Characterization and Parametrization of Reynolds Stress and Turbulent Heat Flux in the Stably-Stratified Lower Arctic Troposphere Using Aircraft Measurements. Boundary-Layer Meteorology, 2016, 161, 99-126.	2.3	25
47	A fully autonomous ozone, aerosol and nighttime water vapor lidar: a synergistic approach to profiling the atmosphere in the Canadian oil sands region. Atmospheric Measurement Techniques, 2018, 11, 6735-6759.	3.1	24
48	A comparison of plume rise algorithms to stack plume measurements in the Athabasca oil sands. Atmospheric Chemistry and Physics, 2018, 18, 14695-14714.	4.9	24
49	Measurements of Enhanced Turbulent Mixing near Highways. Journal of Applied Meteorology and Climatology, 2012, 51, 1618-1632.	1.5	21
50	Role of Nitrite in the Photochemical Formation of Radicals in the Snow. Environmental Science & Technology, 2014, 48, 165-172.	10.0	20
51	Rapid organic aerosol formation downwind of a highway: Measured and model results from the FEVER study. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1663-1679.	3.3	19
52	Dry deposition of O 3 and SO 2 estimated from gradient measurements above a temperate mixed forest. Environmental Pollution, 2016, 210, 202-210.	7.5	19
53	Methane emissions from an oil sands tailings pond: a quantitative comparison of fluxes derived by different methods. Atmospheric Measurement Techniques, 2021, 14, 1879-1892.	3.1	18
54	Fugitive emissions of polycyclic aromatic compounds from an oil sands tailings pond based on fugacity and inverse dispersion flux calculations. Environmental Pollution, 2021, 269, 116115.	7.5	17

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55	Arctic springtime observations of volatile organic compounds during the OASISâ€2009 campaign. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9789-9813.	3.3	16
56	Long-path measurements of pollutants and micrometeorology over HighwayÂ401 in Toronto. Atmospheric Chemistry and Physics, 2017, 17, 14119-14143.	4.9	16
57	Quantifying the Primary Emissions and Photochemical Formation of Isocyanic Acid Downwind of Oil Sands Operations. Environmental Science & Technology, 2017, 51, 14462-14471.	10.0	14
58	Airborne lidar measurements of surface ozone depletion over Arctic sea ice. Atmospheric Chemistry and Physics, 2013, 13, 6023-6029.	4.9	13
59	Aerosolâ€“computational fluid dynamics modeling of ultrafine and black carbon particle emission, dilution, and growth near roadways. Atmospheric Chemistry and Physics, 2014, 14, 12631-12648.	4.9	13
60	Selected topics in arctic atmosphere and climate. Climatic Change, 2012, 115, 35-58.	3.6	12
61	Boundary layer dynamics during the Oceanâ€Atmosphereâ€Seaâ€Iceâ€Snow (OASIS) 2009 experiment at Barrow, AK. Journal of Geophysical Research D: Atmospheres, 2014, 119, 2261-2278.	3.3	12
62	Quantifying fugitive gas emissions from an oil sands tailings pond with open-path Fourier transform infrared measurements. Atmospheric Measurement Techniques, 2021, 14, 945-959.	3.1	12
63	Uptake and emission of VOCs near ground level below a mixed forest at Borden, Ontario. Atmospheric Chemistry and Physics, 2014, 14, 9087-9097.	4.9	10
64	A Study of the Spatial Variation of Vehicle-Induced Turbulence on Highways Using Measurements from a Mobile Platform. Boundary-Layer Meteorology, 2019, 171, 1-29.	2.3	10
65	Improving Insights on Air Pollutant Mixtures and Their Origins by Enhancing Local Monitoring in an Area of Intensive Resource Development. Environmental Science & Technology, 2020, 54, 14936-14945.	10.0	10
66	Boundary layer and free-tropospheric dimethyl sulfide in the Arctic spring and summer. Atmospheric Chemistry and Physics, 2017, 17, 8757-8770.	4.9	8
67	Airborne survey of trace gases and aerosols over the Southern Baltic Sea: from clean marine boundary layer to shipping corridor effect. Tellus, Series B: Chemical and Physical Meteorology, 2022, 72, 1695349.	1.6	7
68	New methodology shows short atmospheric lifetimes of oxidized sulfur and nitrogen due to dry deposition. Atmospheric Chemistry and Physics, 2021, 21, 8377-8392.	4.9	7
69	Estimating a Lagrangian Length Scale Using Measurements of CO2 in a Plant Canopy. Boundary-Layer Meteorology, 2013, 147, 83-102.	2.3	4
70	Impacts of spectrally resolved irradiance on photolysis frequency calculations within a forest canopy. Agricultural and Forest Meteorology, 2020, 291, 108012.	4.8	4
71	Validation of MAX-DOAS retrievals of aerosol extinction, SO₂, and NO₂ through comparison with lidar, sun photometer, active DOAS, and aircraft measurements in the Athabasca oil sands region. Atmospheric Measurement Techniques, 2020, 13, 1129-1155.	3.1	4
72	Daily leaf area index from photosynthetically active radiation for long term records of canopy structure and leaf phenology. Agricultural and Forest Meteorology, 2021, 304-305, 108407.	4.8	4

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73	Persistent Organic Pollutants (Pops) and Airâ€"Soil Exchange: Case Studies for Ddts. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 315-331.	0.2	4
74	Comparison of micrometeorological and two-film estimates of airâ€"water gas exchange for alpha-hexachlorocyclohexane in the Canadian archipelago. Environmental Science and Pollution Research, 2012, 19, 1908-1914.	5.3	3
75	The Response of Spectral Vegetation Indices and Solarâ€Induced Fluorescence to Changes in Illumination Intensity and Geometry in the Days Surrounding the 2017 North American Solar Eclipse. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005774.	3.0	3
76	Assimilation of SMOS soil moisture in the MESH model with the ensemble Kalman filter. , 2014, , .		2
77	Fugitive Emissions of Volatile Organic Compounds from a Tailings Pond in the Oil Sands Region of Alberta. Environmental Science & Technology, 2021, 55, 12831-12840.	10.0	2
78	Evaluating a Lagrangian inverse model for inferring isotope CO2 exchange in plant canopies. Agricultural and Forest Meteorology, 2019, 276-277, 107651.	4.8	1