

Ralf M Staebler

List of Publications by Year in descending order

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Version: 2024-02-01

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	Airborne survey of trace gases and aerosols over the Southern Baltic Sea: from clean marine boundary layer to shipping corridor effect. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 72, 1695349.	1.6	7
2	Fugitive emissions of polycyclic aromatic compounds from an oil sands tailings pond based on fugacity and inverse dispersion flux calculations. <i>Environmental Pollution</i> , 2021, 269, 116115.	7.5	17
3	Quantifying fugitive gas emissions from an oil sands tailings pond with open-path Fourier transform infrared measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 945-959.	3.1	12
4	Methane emissions from an oil sands tailings pond: a quantitative comparison of fluxes derived by different methods. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1879-1892.	3.1	18
5	New methodology shows short atmospheric lifetimes of oxidized sulfur and nitrogen due to dry deposition. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8377-8392.	4.9	7
6	Daily leaf area index from photosynthetically active radiation for long term records of canopy structure and leaf phenology. <i>Agricultural and Forest Meteorology</i> , 2021, 304-305, 108407.	4.8	4
7	Fugitive Emissions of Volatile Organic Compounds from a Tailings Pond in the Oil Sands Region of Alberta. <i>Environmental Science & Technology</i> , 2021, 55, 12831-12840.	10.0	2
8	Improving Insights on Air Pollutant Mixtures and Their Origins by Enhancing Local Monitoring in an Area of Intensive Resource Development. <i>Environmental Science & Technology</i> , 2020, 54, 14936-14945.	10.0	10
9	The Response of Spectral Vegetation Indices and Solar-Induced Fluorescence to Changes in Illumination Intensity and Geometry in the Days Surrounding the 2017 North American Solar Eclipse. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005774.	3.0	3
10	Impacts of spectrally resolved irradiance on photolysis frequency calculations within a forest canopy. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108012.	4.8	4
11	Validation of MAX-DOAS retrievals of aerosol extinction, SO ₂ , and NO ₂ through comparison with lidar, sun photometer, active DOAS, and aircraft measurements in the Athabasca oil sands region. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 1129-1155.	3.1	4
12	Evaluating a Lagrangian inverse model for inferring isotope CO ₂ exchange in plant canopies. <i>Agricultural and Forest Meteorology</i> , 2019, 276-277, 107651.	4.8	1
13	Direct detection of atmospheric atomic bromine leading to mercury and ozone depletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14479-14484.	7.1	68
14	Measured Canadian oil sands CO ₂ emissions are higher than estimates made using internationally recommended methods. <i>Nature Communications</i> , 2019, 10, 1863.	12.8	46
15	Overview paper: New insights into aerosol and climate in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2527-2560.	4.9	134
16	A Study of the Spatial Variation of Vehicle-Induced Turbulence on Highways Using Measurements from a Mobile Platform. <i>Boundary-Layer Meteorology</i> , 2019, 171, 1-29.	2.3	10
17	Comparison of Big-Leaf, Two-Leaf, and Two-Leaf Upscaling Schemes for Evapotranspiration Estimation Using Coupled Carbon-Water Modeling. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 207-225.	3.0	64
18	Incorporating leaf chlorophyll content into a two-leaf terrestrial biosphere model for estimating carbon and water fluxes at a forest site. <i>Agricultural and Forest Meteorology</i> , 2018, 248, 156-168.	4.8	40

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19	A fully autonomous ozone, aerosol and nighttime water vapor lidar: a synergistic approach to profiling the atmosphere in the Canadian oil sands region. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 6735-6759.	3.1	24
20	A comparison of plume rise algorithms to stack plume measurements in the Athabasca oil sands. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14695-14714.	4.9	24
21	Evaluation and Intercomparison of Five North American Dry Deposition Algorithms at a Mixed Forest Site. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1571-1586.	3.8	43
22	Differences between measured and reported volatile organic compound emissions from oil sands facilities in Alberta, Canada. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3756-E3765.	7.1	75
23	Leaf chlorophyll content as a proxy for leaf photosynthetic capacity. <i>Global Change Biology</i> , 2017, 23, 3513-3524.	9.5	404
24	Long-path measurements of pollutants and micrometeorology over Highway 401 in Toronto. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14119-14143.	4.9	16
25	Understanding the primary emissions and secondary formation of gaseous organic acids in the oil sands region of Alberta, Canada. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8411-8427.	4.9	33
26	Boundary layer and free-tropospheric dimethyl sulfide in the Arctic spring and summer. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8757-8770.	4.9	8
27	Quantifying the Primary Emissions and Photochemical Formation of Isocyanic Acid Downwind of Oil Sands Operations. <i>Environmental Science & Technology</i> , 2017, 51, 14462-14471.	10.0	14
28	Oil sands operations as a large source of secondary organic aerosols. <i>Nature</i> , 2016, 534, 91-94.	27.8	136
29	Characterization and Parametrization of Reynolds Stress and Turbulent Heat Flux in the Stably-Stratified Lower Arctic Troposphere Using Aircraft Measurements. <i>Boundary-Layer Meteorology</i> , 2016, 161, 99-126.	2.3	25
30	Arctic springtime observations of volatile organic compounds during the OASIS 2009 campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9789-9813.	3.3	16
31	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. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7899-7916.	4.9	32
32	Dry deposition of O ₃ and SO ₂ estimated from gradient measurements above a temperate mixed forest. <i>Environmental Pollution</i> , 2016, 210, 202-210.	7.5	19
33	Air quality monitoring in communities of the Canadian Arctic during the high shipping season with a focus on local and marine pollution. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2651-2673.	4.9	54
34	Reactive uptake of ammonia to secondary organic aerosols: kinetics of organonitrogen formation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13569-13584.	4.9	90
35	Determining air pollutant emission rates based on mass balance using airborne measurement data over the Alberta oil sands operations. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 3745-3765.	3.1	94
36	Tropospheric Emission Spectrometer (TES) satellite observations of ammonia, methanol, formic acid, and carbon monoxide over the Canadian oil sands: validation and model evaluation. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 5189-5211.	3.1	37

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37	Evaluation of the particle infiltration efficiency of three passive samplers and the PS-1 active air sampler. <i>Atmospheric Environment</i> , 2015, 112, 289-293.	4.1	95
38	Trends of carbon fluxes and climate over a mixed temperateâ€“boreal transition forest in southern Ontario, Canada. <i>Agricultural and Forest Meteorology</i> , 2015, 211-212, 72-84.	4.8	47
39	Assimilation of SMOS soil moisture over the Great Lakes basin. <i>Remote Sensing of Environment</i> , 2015, 169, 163-175.	11.0	29
40	Radiation contributed more than temperature to increased decadal autumn and annual carbon uptake of two eastern North America mature forests. <i>Agricultural and Forest Meteorology</i> , 2015, 201, 8-16.	4.8	26
41	Rapid organic aerosol formation downwind of a highway: Measured and model results from the FEVER study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1663-1679.	3.3	19
42	High levels of molecular chlorine in the Arctic atmosphere. <i>Nature Geoscience</i> , 2014, 7, 91-94.	12.9	105
43	Assimilation of SMOS soil moisture in the MESH model with the ensemble Kalman filter. , 2014, , .		2
44	Role of Nitrite in the Photochemical Formation of Radicals in the Snow. <i>Environmental Science & Technology</i> , 2014, 48, 165-172.	10.0	20
45	Convective forcing of mercury and ozone in the Arctic boundary layer induced by leads in sea ice. <i>Nature</i> , 2014, 506, 81-84.	27.8	79
46	Aerosolâ€“computational fluid dynamics modeling of ultrafine and black carbon particle emission, dilution, and growth near roadways. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12631-12648.	4.9	13
47	Uptake and emission of VOCs near ground level below a mixed forest at Borden, Ontario. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9087-9097.	4.9	10
48	Boundary layer dynamics during the Oceanâ€“Atmosphereâ€“Seaâ€“Iceâ€“Snow (OASIS) 2009 experiment at Barrow, AK. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2261-2278.	3.3	12
49	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. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4101-4133.	4.9	60
50	Measurements of Gas phase Acids in Diesel Exhaust: A Relevant Source of HNCO?. <i>Environmental Science & Technology</i> , 2013, 47, 7663-7671.	10.0	59
51	Estimating a Lagrangian Length Scale Using Measurements of CO2 in a Plant Canopy. <i>Boundary-Layer Meteorology</i> , 2013, 147, 83-102.	2.3	4
52	Airborne lidar measurements of surface ozone depletion over Arctic sea ice. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6023-6029.	4.9	13
53	Atmospheric mercury over sea ice during the OASIS-2009 campaign. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7007-7021.	4.9	42
54	Measurements of Enhanced Turbulent Mixing near Highways. <i>Journal of Applied Meteorology and Climatology</i> , 2012, 51, 1618-1632.	1.5	21

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55	Selected topics in arctic atmosphere and climate. <i>Climatic Change</i> , 2012, 115, 35-58.	3.6	12
56	Are Emissions of Black Carbon from Gasoline Vehicles Underestimated? Insights from Near and On-Road Measurements. <i>Environmental Science & Technology</i> , 2012, 46, 4819-4828.	10.0	91
57	Remote sensing of canopy light use efficiency in temperate and boreal forests of North America using MODIS imagery. <i>Remote Sensing of Environment</i> , 2012, 118, 60-72.	11.0	49
58	Frost flowers growing in the Arctic oceanâ€˜atmosphereâ€˜sea iceâ€˜snow interface: 1. Chemical composition. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	53
59	Regular airborne surveys of Arctic sea ice and atmosphere. <i>Eos</i> , 2012, 93, 41-42.	0.1	25
60	Ozone dynamics and snowâ€˜atmosphere exchanges during ozone depletion events at Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	52
61	Comparison of micrometeorological and two-film estimates of airâ€˜water gas exchange for alpha-hexachlorocyclohexane in the Canadian archipelago. <i>Environmental Science and Pollution Research</i> , 2012, 19, 1908-1914.	5.3	3
62	Diurnal and seasonal variability in size-dependent atmospheric deposition fluxes of polycyclic aromatic hydrocarbons in an urban center. <i>Atmospheric Environment</i> , 2012, 57, 41-48.	4.1	53
63	Measured and modeled variation in pollutant concentration near roadways. <i>Atmospheric Environment</i> , 2012, 57, 138-145.	4.1	35
64	Airâ€˜Water Exchange of Anthropogenic and Natural Organohalogenes on International Polar Year (IPY) Expeditions in the Canadian Arctic. <i>Environmental Science & Technology</i> , 2011, 45, 876-881.	10.0	72
65	Observed increase in local cooling effect of deforestation at higher latitudes. <i>Nature</i> , 2011, 479, 384-387.	27.8	543
66	Three-dimensional characterization of the ammonia plume from a beef cattle feedlot. <i>Atmospheric Environment</i> , 2009, 43, 6091-6099.	4.1	25
67	Amazon rain forest subcanopy flow and the carbon budget: SantarÃ©m LBAâ€˜ECO site. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	44
68	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
69	Measurement of DDT Fluxes from a Historically Treated Agricultural Soil in Canada. <i>Environmental Science & Technology</i> , 2006, 40, 4578-4585.	10.0	106
70	Measuring Canopy Structure and the Kinematics of Subcanopy Flows in Two Forests. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 1161-1179.	1.7	54
71	Inferring nocturnal surface fluxes from vertical profiles of scalars in an Amazon pasture. <i>Global Change Biology</i> , 2004, 10, 886-894.	9.5	29
72	Land-use change effects on local energy, water, and carbon balances in an Amazonian agricultural field. <i>Global Change Biology</i> , 2004, 10, 895-907.	9.5	88

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73	Observing subcanopy CO ₂ advection. Agricultural and Forest Meteorology, 2004, 122, 139-156.	4.8	177
74	Physical and chemical characteristics of aerosols at Spitsbergen in the spring of 1996. Journal of Geophysical Research, 1999, 104, 5515-5529.	3.3	42
75	Long-term observation of the atmospheric exchange of CO ₂ with a temperate deciduous forest in southern Ontario, Canada. Journal of Geophysical Research, 1999, 104, 15975-15984.	3.3	134
76	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
77	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
78	Aerosol size distributions in Arctic haze during the Polar Sunrise Experiment 1992. Journal of Geophysical Research, 1994, 99, 25429.	3.3	42