Lise Lotte SÃ¸rensen

List of Publications by Year
in descending order

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64 papers	2,770 citations	218677 26 h-index	197818 49 g-index
80 all docs	80 docs citations	80 times ranked	4373 citing authors

#	Article	IF	Citations
1	Airâ€“sea flux of CO₂ in arctic coastal waters influenced by glacial melt water and sea ice. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 815.	1.6	58
2	Observed and modelled cloud cover up to 6 km height at Station Nord in the high Arctic. International Journal of Climatology, 2021, 41, 1584-1598.	3.5	5
3	Calculation of NH3 Emissions, Evaluation of Backward Lagrangian Stochastic Dispersion Model and Aerodynamic Gradient Method. Atmosphere, 2021, 12, 102.	2.3	2
4	The Aerodynamic Gradient Method: Implications of Non-Simultaneous Measurements at Alternating Heights. Atmosphere, 2020, 11, 1067.	2.3	5
5	A Simple Model of Chemistry Effects on the Airâ€Sea CO₂ Exchange Coefficient. Journal of Geophysical Research: Oceans, 2020, 125, e2018JC014808.	2.6	1
6	Simulating the atmospheric CO₂ concentration across the heterogeneous landscape of Denmark using a coupled atmosphereâ€“biosphere mesoscale model system. Biogeosciences, 2019, 16, 1505-1524.	3.3	2
7	Fluxes of gaseous elemental mercuryÂ(GEM) in the High Arctic during atmospheric mercury depletion eventsÂ(AMDEs). Atmospheric Chemistry and Physics, 2018, 18, 6923-6938.	4.9	20
8	Investigating sources of measured forest-atmosphere ammonia fluxes using two-layer bi-directional modelling. Agricultural and Forest Meteorology, 2017, 237-238, 80-94.	4.8	21
9	The influence of short-term variability in surface water on modelled airâ€“sea exchange. Tellus, Series B: Chemical and Physical Meteorology, 2017, 69, 1302670.	1.6	2
10	Ultrafine particle number fluxes over and in a deciduous forest. Journal of Geophysical Research D: Atmospheres, 2017, 122, 405-422.	3.3	2
11	Temporal variability of air-sea CO2 exchange in a low-emission estuary. Estuarine, Coastal and Shelf Science, 2016, 176, 1-11.	2.1	11
12	Seasonal variation of atmospheric particle number concentrations, new particle formation and atmospheric oxidation capacity at the high Arctic site Villum Research Station, Station Nord. Atmospheric Chemistry and Physics, 2016, 16, 11319-11336.	4.9	60
13	Atmospheric Pollution Research on Greenland. From Pole To Pole, 2016, , 21-39.	0.1	1
14	Estimating surface fluxes using eddy covariance and numerical ogive optimization. Atmospheric Chemistry and Physics, 2015, 15, 2081-2103.	4.9	22
15	Atmospheric black carbon and sulfate concentrations in Northeast Greenland. Atmospheric Chemistry and Physics, 2015, 15, 9681-9692.	4.9	66
16	Winter observations of CO₂ exchange between sea ice and the atmosphere in a coastal fjord environment. Cryosphere, 2015, 9, 1701-1713.	3.9	15
17	Sensitivity of the airâ€“sea CO₂ exchange in the Baltic Sea and Danish inner waters to atmospheric short-term variability. Biogeosciences, 2015, 12, 2753-2772.	3.3	8
18	Background concentrations and fluxes of atmospheric ammonia over a deciduous forest. Agricultural and Forest Meteorology, 2015, 214-215, 380-392.	4.8	19

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19	Methods for biogeochemical studies of sea ice: The state of the art, caveats, and recommendations. Elementa, 2015, 3, .	3.2	77
20	Parameterization of atmosphereâ€“surface exchange of CO₂ over sea ice. Cryosphere, 2014, 8, 853-866.	3.9	18
21	Temporal dynamics of ikaite in experimental sea ice. Cryosphere, 2014, 8, 1469-1478.	3.9	32
22	Airâ€“Sea $$mathrm{CO}_{2}$$ CO 2 Gas Transfer Velocity in a Shallow Estuary. Boundary-Layer Meteorology, 2014, 151, 119-138.	2.3	17
23	Characterization of humicâ€like substances in Arctic aerosols. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5011-5027.	3.3	45
24	Boundary-Layer and Air Quality Study at â€œStation Nordâ€•in Greenland. Springer Proceedings in Complexity, 2014, , 525-529.	0.3	4
25	The impact of lower sea-ice extent on Arctic greenhouse-gas exchange. Nature Climate Change, 2013, 3, 195-202.	18.8	119
26	Sources of anions in aerosols in northeast Greenland during late winter. Atmospheric Chemistry and Physics, 2013, 13, 1569-1578.	4.9	24
27	Source apportionment of particles at Station Nord, North East Greenland during 2008â€“2010 using COPREM and PMF analysis. Atmospheric Chemistry and Physics, 2013, 13, 35-49.	4.9	75
28	Ammonia emissions from deciduous forest after leaf fall. Biogeosciences, 2013, 10, 4577-4589.	3.3	29
29	Methods for Estimating Airâ€“Sea Fluxes of CO2 Using High-Frequency Measurements. Boundary-Layer Meteorology, 2012, 144, 379-400.	2.3	13
30	Governing processes for reactive nitrogen compounds in the European atmosphere. Biogeosciences, 2012, 9, 4921-4954.	3.3	77
31	Nucleation and Aitken mode atmospheric particles in relation to O3 and NOX at semirural background in Denmark. Atmospheric Environment, 2012, 49, 275-283.	4.1	9
32	High airâ€“sea CO2 uptake rates in nearshore and shelf areas of Southern Greenland: Temporal and spatial variability. Marine Chemistry, 2012, 128-129, 26-33.	2.3	56
33	Linking phytoplankton community size composition with temperature, plankton food web structure and seaâ€“air CO2 flux. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 826-838.	1.4	77
34	Nitrogen processes in the atmosphere. , 2011, , 177-208.		35
35	Spatial and vertical extent of nucleation events in the Midwestern USA: insights from the Nucleation In ForesTs (NIFTy) experiment. Atmospheric Chemistry and Physics, 2011, 11, 1641-1657.	4.9	37
36	Atmosphereâ€“Surface Fluxes of CO2 using Spectral Techniques. Boundary-Layer Meteorology, 2010, 136, 59-81.	2.3	19

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37	Observed development of the vertical structure of the marine boundary layer during the LASIE experiment in the Ligurian Sea. Annales Geophysicae, 2010, 28, 17-25.	1.6	16
38	Inter-comparison of ammonia fluxes obtained using the Relaxed Eddy Accumulation technique. Biogeosciences, 2009, 6, 2575-2588.	3.3	39
39	Upward fluxes of particles over forests: when, where, why?. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 372-380.	1.6	34
40	Overview of the biosphere-aerosol-cloud-climate interactions (BACCI) studies. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 300-317.	1.6	12
41	Impacts of Atmospheric Anthropogenic Nitrogen on the Open Ocean. Science, 2008, 320, 893-897.	12.6	964
42	Particle fluxes above forests: Observations, methodological considerations and method comparisons. Environmental Pollution, 2008, 152, 667-678.	7.5	22
43	Particle fluxes over forests: Analyses of flux methods and functional dependencies. Journal of Geophysical Research, 2007, 112, .	3.3	50
44	MEAD: An interdisciplinary study of the marine effects of atmospheric deposition in the Kattegat. Environmental Pollution, 2006, 140, 453-462.	7.5	30
45	Identifying the European Fossil Fuel Plumes in the Atmosphere Over the Northeast Atlantic Region Through Isotopic Observations and Numerical Modelling. Environmental Monitoring and Assessment, 2006, 117, 387-409.	2.7	1
46	Observations of ultra-fine particles above a deciduous forest in Denmark. Geophysical Research Letters, 2005, 32, .	4.0	5
47	Flux divergence of nitric acid in the marine atmospheric surface layer. Journal of Geophysical Research, 2005, 110, .	3.3	15
48	Deposition of nitrogen into the North Sea. Atmospheric Environment, 2003, 37, 145-165.	4.1	33
49	Fluxes of ammonia in the coastal marine boundary layer. Atmospheric Environment, 2003, 37, 167-177.	4.1	37
50	Atmospheric nitrogen inputs into the North Sea: effect on productivity. Continental Shelf Research, 2003, 23, 1743-1755.	1.8	48
51	Dry deposition of reactive nitrogen to marine environments: recent advances and remaining uncertainties. Marine Pollution Bulletin, 2002, 44, 1336-1340.	5.0	15
52	HNO3 fluxes to a deciduous forest derived using gradient and REA methods. Atmospheric Environment, 2002, 36, 5993-5999.	4.1	40
53	Atmospheric input of nitrogen into the North Sea: ANICE project overview. Continental Shelf Research, 2001, 21, 2073-2094.	1.8	41
54	Title is missing!. Water, Air and Soil Pollution, 2001, 1, 99-107.	0.8	12

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55	Ammonia concentrations and fluxes over a forest in the midwestern USA. Atmospheric Environment, 2001, 35, 5645-5656.	4.1	65
56	Modeling concentrations and fluxes of atmospheric CO2 in the North East Atlantic region. Physics and Chemistry of the Earth, 2001, 26, 763-768.	0.3	10
57	Implications of Heterogeneous Chemistry of Nitric Acid for Nitrogen Deposition to Marine Ecosystems: Observations and Modeling. , 2001, , 99-107.		2
58	Subproject CAPMAN Flux Divergence of Reactive Nitrogen over the Coastal Ocean. , 2001, , 54-61.		0
59	Nitric Acidâ€“Sea Salt Reactions: Implications for Nitrogen Deposition to Water Surfaces. Journal of Applied Meteorology and Climatology, 2000, 39, 725-731.	1.7	47
60	Speciated particle dry deposition to the sea surface: results from ASEPS â€™97. Atmospheric Environment, 1999, 33, 2045-2058.	4.1	27
61	Physical and Chemical Processes Governing Fluxes and Flux Divergence of Gaseous Ammonia and Nitric Acid in the Marine Atmospheric Boundary Layer. Atmospheric and Oceanographic Sciences Library, 1999, , 411-436.	0.1	0
62	Fluxes of soluble gases in the marine atmosphere surface layer. Tellus, Series B: Chemical and Physical Meteorology, 1998, 50, 111-127.	1.6	20
63	Atmospheric nitrogen input to the Kattegat. Ophelia, 1995, 42, 5-28.	0.3	35
64	Diffusion scrubber technique used for measurements of atmospheric ammonia. Atmospheric Environment, 1994, 28, 3637-3645.	4.1	34