Darius Ceburnis

List of Publications by Year
in descending order

127 papers	8,793 citations	50276 46 h-index	51608 86 g-index
155 all docs	155 docs citations	155 times ranked	6464 citing authors

#	Article	IF	Citations
1	Seasonality of Aerosol Sources Calls for Distinct Air Quality Mitigation Strategies. Toxics, 2022, 10, 121.	3.7	2
2	Sea spray as an obscured source for marine cloud nuclei. Nature Geoscience, 2022, 15, 282-286.	12.9	27
3	Background levels of black carbon over remote marine locations. Atmospheric Research, 2022, 271, 106119.	4.1	4
4	Phytoplankton Impact on Marine Cloud Microphysical Properties Over the Northeast Atlantic Ocean. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	3
5	European aerosol phenomenology â˜ 8: Harmonised source apportionment of organic aerosol using 22 Year-long ACSM/AMS datasets. Environment International, 2022, 166, 107325.	10.0	41
6	Direct field evidence of autocatalytic iodine release from atmospheric aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	25
7	Study of Emissions from Domestic Solid-Fuel Stove Combustion in Ireland. Energy & Fuels, 2021, 35, 4966-4978.	5.1	17
8	Seasonal Trends of Aerosol Hygroscopicity and Mixing State in Clean Marine and Polluted Continental Air Masses Over the Northeast Atlantic. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033851.	3.3	5
9	The impact of aerosol size-dependent hygroscopicity and mixing state on the cloud condensation nuclei potential over the north-east Atlantic. Atmospheric Chemistry and Physics, 2021, 21, 8655-8675.	4.9	3
10	Envisioning an Integrated Assessment System and Observation Network for the North Atlantic Ocean. Atmosphere, 2021, 12, 955.	2.3	0
11	On the use of reference mass spectra for reducing uncertainty in source apportionment of solid-fuel burning in ambient organic aerosol. Atmospheric Measurement Techniques, 2021, 14, 6905-6916.	3.1	3
12	Particulate methanesulfonic acid over the central Mediterranean Sea: Source region identification and relationship with phytoplankton activity. Atmospheric Research, 2020, 237, 104837.	4.1	11
13	Linking Marine Biological Activity to Aerosol Chemical Composition and Cloudâ€Relevant Properties Over the North Atlantic Ocean. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032246.	3.3	10
14	Chemical nature and sources of fine particles in urban Beijing: Seasonality and formation mechanisms. Environment International, 2020, 140, 105732.	10.0	26
15	Sea-spray regulates sulfate cloud droplet activation over oceans. Npj Climate and Atmospheric Science, 2020, 3, .	6.8	32
16	Contribution of Water-Soluble Organic Matter from Multiple Marine Geographic Eco-Regions to Aerosols around Antarctica. Environmental Science & Technology, 2020, 54, 7807-7817.	10.0	13
17	Aerosol hygroscopicity and its link to chemical composition in the coastal atmosphere of Mace Head: marine and continental air masses. Atmospheric Chemistry and Physics, 2020, 20, 3777-3791.	4.9	19
18	Shipborne measurements of Antarctic submicron organic aerosols: an NMR perspective linking multiple sources and bioregions. Atmospheric Chemistry and Physics, 2020, 20, 4193-4207.	4.9	21

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19	Identification of wintertime carbonaceous fine particulate matter (PM2.5) sources in Kaunas, Lithuania using polycyclic aromatic hydrocarbons and stable carbon isotope analysis. Atmospheric Environment, 2020, 237, 117673.	4.1	9
20	Effects of NH3 and alkaline metals on the formation of particulate sulfate and nitrate in wintertime Beijing. Science of the Total Environment, 2020, 717, 137190.	8.0	26
21	Summertime and wintertime atmospheric processes of secondary aerosol in Beijing. Atmospheric Chemistry and Physics, 2020, 20, 3793-3807.	4.9	55
22	Seasonal variations in the sources of organic aerosol in Xi'an, Northwest China: The importance of biomass burning and secondary formation. Science of the Total Environment, 2020, 737, 139666.	8.0	16
23	Contrasting sources and processes of particulate species in haze days with low and high relative humidity in wintertime Beijing. Atmospheric Chemistry and Physics, 2020, 20, 9101-9114.	4.9	34
24	The impact of traffic on air quality in Ireland: insights from the simultaneous kerbside and suburban monitoring of submicron aerosols. Atmospheric Chemistry and Physics, 2020, 20, 10513-10529.	4.9	10
25	The EMEP Intensive Measurement Period campaign, 2008â€“2009: characterizing carbonaceous aerosol at nine rural sites in Europe. Atmospheric Chemistry and Physics, 2019, 19, 4211-4233.	4.9	20
26	Simultaneous Detection of Alkylamines in the Surface Ocean and Atmosphere of the Antarctic Sympagic Environment. ACS Earth and Space Chemistry, 2019, 3, 854-862.	2.7	34
27	Primary emissions versus secondary formation of fine particulate matter in the most polluted city (Shijiazhuang) in North China. Atmospheric Chemistry and Physics, 2019, 19, 2283-2298.	4.9	74
28	Summertime Aerosol over the West of Ireland Dominated by Secondary Aerosol during Long-Range Transport. Atmosphere, 2019, 10, 59.	2.3	7
29	Wintertime aerosol dominated by solid-fuel-burning emissions across Ireland: insight into the spatial and chemical variation in submicron aerosol. Atmospheric Chemistry and Physics, 2019, 19, 14091-14106.	4.9	14
30	Summertime Primary and Secondary Contributions to Southern Ocean Cloud Condensation Nuclei. Scientific Reports, 2018, 8, 13844.	3.3	63
31	Extreme air pollution from residential solid fuel burning. Nature Sustainability, 2018, 1, 512-517.	23.7	59
32	Global relevance of marine organic aerosol as ice nucleating particles. Atmospheric Chemistry and Physics, 2018, 18, 11423-11445.	4.9	29
33	Sources and atmospheric processing of size segregated aerosol particles revealed by stable carbon isotope ratios and chemical speciation. Environmental Pollution, 2018, 240, 286-296.	7.5	24
34	Marine and Terrestrial Organic Iceâ€Nucleating Particles in Pristine Marine to Continentally Influenced Northeast Atlantic Air Masses. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6196-6212.	3.3	98
35	Surface tension prevails over solute effect in organic-influenced cloud droplet activation. Nature, 2017, 546, 637-641.	27.8	232
36	Sophisticated Clean Air Strategies Required to Mitigate Against Particulate Organic Pollution. Scientific Reports, 2017, 7, 44737.	3.3	11

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37	Distinct high molecular weight organic compound (HMW-OC) types in aerosol particles collected at a coastal urban site. Atmospheric Environment, 2017, 171, 118-125.	4.1	3
38	Transfer of labile organic matter and microbes from the ocean surface to the marine aerosol: an experimental approach. Scientific Reports, 2017, 7, 11475.	3.3	75
39	Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols. Scientific Reports, 2017, 7, 6047.	3.3	63
40	Characterization of Primary Organic Aerosol from Domestic Wood, Peat, and Coal Burning in Ireland. Environmental Science & Technology, 2017, 51, 10624-10632.	10.0	31
41	Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations. Atmospheric Chemistry and Physics, 2017, 17, 3637-3658.	4.9	144
42	Top-down and bottom-up aerosolâ€“cloud closure: towards understanding sources of uncertainty in deriving cloud shortwave radiative flux. Atmospheric Chemistry and Physics, 2017, 17, 9797-9814.	4.9	21
43	Stable isotopes measurements reveal dual carbon pools contributing to organic matter enrichment in marine aerosol. Scientific Reports, 2016, 6, 36675.	3.3	37
44	Six years of surface remote sensing of stratiform warm clouds in marine and continental air over Mace Head, Ireland. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,538.	3.3	8
45	A European aerosol phenomenology -4: Harmonized concentrations of carbonaceous aerosol at 10 regional background sites across Europe. Atmospheric Environment, 2016, 144, 133-145.	4.1	50
46	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO3. Nature, 2016, 537, 532-534.	27.8	237
47	Marine submicron aerosol gradients, sources and sinks. Atmospheric Chemistry and Physics, 2016, 16, 12425-12439.	4.9	12
48	Geochemistry of PM₁₀ over Europe during the EMEP intensive measurement periods in summerÂ2012 and winterÂ2013. Atmospheric Chemistry and Physics, 2016, 16, 6107-6129.	4.9	54
49	Connecting marine productivity to sea-spray via nanoscale biological processes: Phytoplankton Dance or Death Disco?. Scientific Reports, 2015, 5, 14883.	3.3	75
50	Elucidating carbonaceous aerosol sources by the stable carbon Î´13CTC ratio in size-segregated particles. Atmospheric Research, 2015, 158-159, 1-12.	4.1	30
51	Stable carbon fractionation in size-segregated aerosol particles produced by controlled biomass burning. Journal of Aerosol Science, 2015, 79, 86-96.	3.8	34
52	Apportionment of urban aerosol sources in Cork (Ireland) by synergistic measurement techniques. Science of the Total Environment, 2014, 493, 197-208.	8.0	18
53	Do anthropogenic, continental or coastal aerosol sources impact on a marine aerosol signature at Mace Head?. Atmospheric Chemistry and Physics, 2014, 14, 10687-10704.	4.9	42
54	A sea spray aerosol flux parameterization encapsulating wave state. Atmospheric Chemistry and Physics, 2014, 14, 1837-1852.	4.9	113

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55	Organic aerosol components derived from 25 AMS data sets across Europe using a consistent ME-2 based source apportionment approach. Atmospheric Chemistry and Physics, 2014, 14, 6159-6176.	4.9	308
56	Submicron NE Atlantic marine aerosol chemical composition and abundance: Seasonal trends and air mass categorization. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11,850-11,863.	3.3	65
57	Ground-based remote sensing profiling of aerosols and mass concentration above Mace Head, Ireland. , 2013, , .		0
58	Characterization of volcanic ash from the 2011 GrÃ¬msvÃ¶tn eruption byÂmeans of single-particle analysis. Atmospheric Environment, 2013, 79, 411-420.	4.1	14
59	Submicron sea salt source fluxes. , 2013, , .		0
60	Cleaner air: Brightening the pollution perspective?. , 2013, , .		2
61	Intercontinental and regional transport of air pollution monitored at Mace Head, Ireland and over Europe. , 2013, , .		0
62	A dual behavior of primary marine organics. , 2013, , .		0
63	Marine organics effect on sea-spray light scattering. , 2013, , .		0
64	The seaweeds <i>Fucus vesiculosus</i> and <i>Ascophyllum nodosum</i> are significant contributors to coastal iodine emissions. Atmospheric Chemistry and Physics, 2013, 13, 5255-5264.	4.9	18
65	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. Atmospheric Chemistry and Physics, 2013, 13, 8991-9019.	4.9	27
66	Characterization of urban aerosol in Cork city (Ireland) using aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2013, 13, 4997-5015.	4.9	75
67	Light-absorbing carbon in Europe â€“ measurement and modelling, with a focus on residential wood combustion emissions. Atmospheric Chemistry and Physics, 2013, 13, 8719-8738.	4.9	51
68	Is chlorophyllâ€‹a the best surrogate for organic matter enrichment in submicron primary marine aerosol?. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4964-4973.	3.3	89
69	Bistable effect of organic enrichment on sea spray radiative properties. Geophysical Research Letters, 2013, 40, 6395-6398.	4.0	20
70	Lessons learnt from the first EMEP intensive measurement periods. Atmospheric Chemistry and Physics, 2012, 12, 8073-8094.	4.9	58
71	Model evaluation of marine primary organic aerosol emission schemes. Atmospheric Chemistry and Physics, 2012, 12, 8553-8566.	4.9	34
72	On the effect of wind speed on submicron sea salt mass concentrations and source fluxes. Journal of Geophysical Research, 2012, 117, .	3.3	107

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73	Nitrogenated and aliphatic organic vapors as possible drivers for marine secondary organic aerosol growth. Journal of Geophysical Research, 2012, 117, .	3.3	44
74	Biogenic and anthropogenic organic matter in aerosol over continental Europe: source characterization in the east Baltic region. Journal of Atmospheric Chemistry, 2012, 69, 159-174.	3.2	7
75	The EyjafjallajÃ¶kull ash plume â€“ Part I: Physical, chemical and optical characteristics. Atmospheric Environment, 2012, 48, 129-142.	4.1	24
76	The EyjafjallajÃ¶kull ash plume â€“ Part 2: Simulating ash cloud dispersion with REMOTE. Atmospheric Environment, 2012, 48, 143-151.	4.1	17
77	Impact of volcanic ash plume aerosol on cloud microphysics. Atmospheric Environment, 2012, 48, 205-218.	4.1	9
78	Detecting high contributions of primary organic matter to marine aerosol: A case study. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	113
79	Aerosol analysis and forecast in the European Centre for Medium-Range Weather Forecasts Integrated Forecast System: 3. Evaluation by means of case studies. Journal of Geophysical Research, 2011, 116, .	3.3	53
80	Primary marine organic aerosol: A dichotomy of low hygroscopicity and high CCN activity. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	118
81	Evidence of a natural marine source of oxalic acid and a possible link to glyoxal. Journal of Geophysical Research, 2011, 116, .	3.3	86
82	Effect of horizontal resolution on meteorology and air-quality prediction with a regional scale model. Atmospheric Research, 2011, 101, 574-594.	4.1	14
83	Wind speed dependent size-resolved parameterization for the organic mass fraction of sea spray aerosol. Atmospheric Chemistry and Physics, 2011, 11, 8777-8790.	4.9	150
84	A statistical analysis of North East Atlantic (submicron) aerosol size distributions. Atmospheric Chemistry and Physics, 2011, 11, 12567-12578.	4.9	35
85	Quantification of the carbonaceous matter origin in submicron marine aerosol by ¹³C and ¹⁴C isotope analysis. Atmospheric Chemistry and Physics, 2011, 11, 8593-8606.	4.9	114
86	Primary and secondary marine organic aerosols over the North Atlantic Ocean during the MAP experiment. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	85
87	EUCAARI ion spectrometer measurements at 12 European sites â€“ analysis of new particle formation events. Atmospheric Chemistry and Physics, 2010, 10, 7907-7927.	4.9	248
88	Nanoparticles in boreal forest and coastal environment: a comparison of observations and implications of the nucleation mechanism. Atmospheric Chemistry and Physics, 2010, 10, 7009-7016.	4.9	42
89	Aerosol properties associated with air masses arriving into the North East Atlantic during the 2008 Mace Head EUCAARI intensive observing period: an overview. Atmospheric Chemistry and Physics, 2010, 10, 8413-8435.	4.9	61
90	Corrigendum to "Aerosol properties associated with air masses arriving into the North East Atlantic during the 2008 Mace Head EUCAARI intensive observing period: an overview" published in Atmos. Chem. Phys., 10, 8413-8435, 2010. Atmospheric Chemistry and Physics, 2010, 10, 8549-8549.	4.9	2

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91	Global scale emission and distribution of sea-spray aerosol: Sea-salt and organic enrichment. Atmospheric Environment, 2010, 44, 670-677.	4.1	196
92	Variation of the mixing state of Saharan dust particles with atmospheric transport. Atmospheric Environment, 2010, 44, 3135-3146.	4.1	82
93	Effect of instrumental particle sizing resolution on the modelling of aerosol radiative parameters. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 753-771.	2.3	1
94	Minimizing light absorption measurement artifacts of the Aethalometer: evaluation of five correction algorithms. Atmospheric Measurement Techniques, 2010, 3, 457-474.	3.1	409
95	Global Modeling of the Oceanic Source of Organic Aerosols. Advances in Meteorology, 2010, 2010, 1-16.	1.6	93
96	Primary and Secondary Organic Marine Aerosol and Oceanic Biological Activity: Recent Results and New Perspectives for Future Studies. Advances in Meteorology, 2010, 2010, 1-10.	1.6	175
97	Growth rates during coastal and marine new particle formation in western Ireland. Journal of Geophysical Research, 2010, 115, .	3.3	36
98	Volcanic sulphate and arctic dust plumes over the North Atlantic Ocean. Atmospheric Environment, 2009, 43, 4968-4974.	4.1	37
99	On the representativeness of coastal aerosol studies to open ocean studies: Mace Head â€“ a case study. Atmospheric Chemistry and Physics, 2009, 9, 9635-9646.	4.9	44
100	A combined organicâ€inorganic seaâ€spray source function. Geophysical Research Letters, 2008, 35, .	4.0	173
101	Study of water-soluble atmospheric humic matter in urban and marine environments. Atmospheric Research, 2008, 87, 1-12.	4.1	115
102	Characteristic features of air ions at Mace Head on the west coast of Ireland. Atmospheric Research, 2008, 90, 278-286.	4.1	77
103	Marine aerosol chemistry gradients: Elucidating primary and secondary processes and fluxes. Geophysical Research Letters, 2008, 35, .	4.0	93
104	Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates. Geophysical Research Letters, 2008, 35, .	4.0	380
105	Significant enhancement of aerosol optical depth in marine air under high wind conditions. Geophysical Research Letters, 2008, 35, .	4.0	93
106	Important Source of Marine Secondary Organic Aerosol from Biogenic Amines. Environmental Science & Technology, 2008, 42, 9116-9121.	10.0	349
107	Elemental and organic carbon in PM₁₀: a one year measurement campaign within the European Monitoring and Evaluation Programme EMEP. Atmospheric Chemistry and Physics, 2007, 7, 5711-5725.	4.9	177
108	Concentrations and fluxes of aerosol particles during the LAPBIAT measurement campaign at VÃrriÃ¶ field station. Atmospheric Chemistry and Physics, 2007, 7, 3683-3700.	4.9	19

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109	Seasonal characteristics of the physicochemical properties of North Atlantic marine atmospheric aerosols. Journal of Geophysical Research, 2007, 112, .	3.3	189
110	Wind Speed Influences on Aerosol Optical Depth in Clean Marine Air. , 2007, , 1164-1168.		1
111	Similarity Between Aerosol Physicochemical Properties at a Coastal Station and Open Ocean over the North Atlantic. , 2007, , 1098-1101.		0
112	Chemical Fluxes in North-east Atlantic Air. , 2007, , 1064-1069.		0
113	A Combined Organicâ€“Inorganic Sea-spray Source Function. , 2007, , 1083-1087.		1
114	Local and regional air pollution in Ireland during an intensive aerosol measurement campaign. Journal of Environmental Monitoring, 2006, 8, 479.	2.1	7
115	Light scattering properties of sea-salt aerosol particles inferred from modeling studies and ground-based measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 101, 498-511.	2.3	37
116	Validation of CALINE4 modelling for carbon monoxide concentrations under free-flowing and congested traffic conditions in Ireland. International Journal of Environment and Pollution, 2005, 24, 104.	0.2	16
117	Major component composition of urban PM10 and PM2.5 in Ireland. Atmospheric Research, 2005, 78, 149-165.	4.1	64
118	Biogenically driven organic contribution to marine aerosol. Nature, 2004, 431, 676-680.	27.8	890
119	Advances in characterization of size-resolved organic matter in marine aerosol over the North Atlantic. Journal of Geophysical Research, 2004, 109, .	3.3	322
120	Light backscattering and scattering by nonspherical sea-salt aerosols. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 79-80, 577-597.	2.3	41
121	In-stack emissions of heavy metals estimated by moss biomonitoring method and snow-pack analysis. Atmospheric Environment, 2002, 36, 1465-1474.	4.1	33
122	Estimation of atmospheric trace metal emissions in Vilnius City, Lithuania, using vertical concentration gradient and road tunnel measurement data. Atmospheric Environment, 2002, 36, 6001-6014.	4.1	37
123	Atmospheric Pb and Cd input into the Baltic Sea: a new estimate based on measurements. Marine Chemistry, 2000, 71, 297-307.	2.3	26
124	Conifer needles as biomonitors of atmospheric heavy metal deposition: comparison with mosses and precipitation, role of the canopy. Atmospheric Environment, 2000, 34, 4265-4271.	4.1	134
125	Estimation of metal uptake efficiencies from precipitation in mosses in Lithuania. Chemosphere, 1999, 38, 445-455.	8.2	32
126	Investigation of absolute metal uptake efficiency from precipitation in moss. Science of the Total Environment, 1999, 226, 247-253.	8.0	70

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127	extended study of atmospheric heavy metal deposition in lithuania based on moss analysis. Environmental Monitoring and Assessment, 1997, 47, 135-152.	2.7	29