

Darius Ceburnis

List of Publications by Year in descending order

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127
papers

8,793
citations

50170

46
h-index

51492

86
g-index

155
all docs

155
docs citations

155
times ranked

6464
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogenically driven organic contribution to marine aerosol. <i>Nature</i> , 2004, 431, 676-680.	13.7	890
2	Minimizing light absorption measurement artifacts of the Aethalometer: evaluation of five correction algorithms. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 457-474.	1.2	409
3	Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	380
4	Important Source of Marine Secondary Organic Aerosol from Biogenic Amines. <i>Environmental Science & Technology</i> , 2008, 42, 9116-9121.	4.6	349
5	Advances in characterization of size-resolved organic matter in marine aerosol over the North Atlantic. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	322
6	Organic aerosol components derived from 25 AMS data sets across Europe using a consistent ME-2 based source apportionment approach. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6159-6176.	1.9	308
7	EUCAARI ion spectrometer measurements at 12 European sites – analysis of new particle formation events. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7907-7927.	1.9	248
8	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO ₃ . <i>Nature</i> , 2016, 537, 532-534.	13.7	237
9	Surface tension prevails over solute effect in organic-influenced cloud droplet activation. <i>Nature</i> , 2017, 546, 637-641.	13.7	232
10	Global scale emission and distribution of sea-spray aerosol: Sea-salt and organic enrichment. <i>Atmospheric Environment</i> , 2010, 44, 670-677.	1.9	196
11	Seasonal characteristics of the physicochemical properties of North Atlantic marine atmospheric aerosols. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	189
12	Elemental and organic carbon in PM ₁₀ : a one year measurement campaign within the European Monitoring and Evaluation Programme EMEP. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5711-5725.	1.9	177
13	Primary and Secondary Organic Marine Aerosol and Oceanic Biological Activity: Recent Results and New Perspectives for Future Studies. <i>Advances in Meteorology</i> , 2010, 2010, 1-10.	0.6	175
14	A combined organic–inorganic sea–spray source function. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	173
15	Wind speed dependent size-resolved parameterization for the organic mass fraction of sea spray aerosol. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8777-8790.	1.9	150
16	Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3637-3658.	1.9	144
17	Conifer needles as biomonitors of atmospheric heavy metal deposition: comparison with mosses and precipitation, role of the canopy. <i>Atmospheric Environment</i> , 2000, 34, 4265-4271.	1.9	134
18	Primary marine organic aerosol: A dichotomy of low hygroscopicity and high CCN activity. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	118

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19	Study of water-soluble atmospheric humic matter in urban and marine environments. <i>Atmospheric Research</i> , 2008, 87, 1-12.	1.8	115
20	Quantification of the carbonaceous matter origin in submicron marine aerosol by $\delta^{13}\text{C}$ and $\delta^{14}\text{C}$ isotope analysis. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8593-8606.	1.9	114
21	Detecting high contributions of primary organic matter to marine aerosol: A case study. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	113
22	A sea spray aerosol flux parameterization encapsulating wave state. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1837-1852.	1.9	113
23	On the effect of wind speed on submicron sea salt mass concentrations and source fluxes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	107
24	Marine and Terrestrial Organic Ice-Nucleating Particles in Pristine Marine to Continentally Influenced Northeast Atlantic Air Masses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6196-6212.	1.2	98
25	Marine aerosol chemistry gradients: Elucidating primary and secondary processes and fluxes. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	93
26	Significant enhancement of aerosol optical depth in marine air under high wind conditions. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	93
27	Global Modeling of the Oceanic Source of Organic Aerosols. <i>Advances in Meteorology</i> , 2010, 2010, 1-16.	0.6	93
28	Is chlorophyll <i>a</i> the best surrogate for organic matter enrichment in submicron primary marine aerosol?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4964-4973.	1.2	89
29	Evidence of a natural marine source of oxalic acid and a possible link to glyoxal. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	86
30	Primary and secondary marine organic aerosols over the North Atlantic Ocean during the MAP experiment. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	85
31	Variation of the mixing state of Saharan dust particles with atmospheric transport. <i>Atmospheric Environment</i> , 2010, 44, 3135-3146.	1.9	82
32	Characteristic features of air ions at Mace Head on the west coast of Ireland. <i>Atmospheric Research</i> , 2008, 90, 278-286.	1.8	77
33	Characterization of urban aerosol in Cork city (Ireland) using aerosol mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4997-5015.	1.9	75
34	Connecting marine productivity to sea-spray via nanoscale biological processes: Phytoplankton Dance or Death Disco?. <i>Scientific Reports</i> , 2015, 5, 14883.	1.6	75
35	Transfer of labile organic matter and microbes from the ocean surface to the marine aerosol: an experimental approach. <i>Scientific Reports</i> , 2017, 7, 11475.	1.6	75
36	Primary emissions versus secondary formation of fine particulate matter in the most polluted city (Shijiazhuang) in North China. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2283-2298.	1.9	74

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37	Investigation of absolute metal uptake efficiency from precipitation in moss. <i>Science of the Total Environment</i> , 1999, 226, 247-253.	3.9	70
38	Submicron NE Atlantic marine aerosol chemical composition and abundance: Seasonal trends and air mass categorization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,850-11,863.	1.2	65
39	Major component composition of urban PM ₁₀ and PM _{2.5} in Ireland. <i>Atmospheric Research</i> , 2005, 78, 149-165.	1.8	64
40	Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols. <i>Scientific Reports</i> , 2017, 7, 6047.	1.6	63
41	Summertime Primary and Secondary Contributions to Southern Ocean Cloud Condensation Nuclei. <i>Scientific Reports</i> , 2018, 8, 13844.	1.6	63
42	Aerosol properties associated with air masses arriving into the North East Atlantic during the 2008 Mace Head EUCAARI intensive observing period: an overview. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8413-8435.	1.9	61
43	Extreme air pollution from residential solid fuel burning. <i>Nature Sustainability</i> , 2018, 1, 512-517.	11.5	59
44	Lessons learnt from the first EMEP intensive measurement periods. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8073-8094.	1.9	58
45	Summertime and wintertime atmospheric processes of secondary aerosol in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3793-3807.	1.9	55
46	Geochemistry of PM ₁₀ over Europe during the EMEP intensive measurement periods in summer 2012 and winter 2013. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6107-6129.	1.9	54
47	Aerosol analysis and forecast in the European Centre for Medium-Range Weather Forecasts Integrated Forecast System: 3. Evaluation by means of case studies. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	53
48	Light-absorbing carbon in Europe – measurement and modelling, with a focus on residential wood combustion emissions. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8719-8738.	1.9	51
49	A European aerosol phenomenology -4: Harmonized concentrations of carbonaceous aerosol at 10 regional background sites across Europe. <i>Atmospheric Environment</i> , 2016, 144, 133-145.	1.9	50
50	On the representativeness of coastal aerosol studies to open ocean studies: Mace Head – a case study. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9635-9646.	1.9	44
51	Nitrogenated and aliphatic organic vapors as possible drivers for marine secondary organic aerosol growth. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
52	Nanoparticles in boreal forest and coastal environment: a comparison of observations and implications of the nucleation mechanism. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7009-7016.	1.9	42
53	Do anthropogenic, continental or coastal aerosol sources impact on a marine aerosol signature at Mace Head?. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10687-10704.	1.9	42
54	Light backscattering and scattering by nonspherical sea-salt aerosols. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 79-80, 577-597.	1.1	41

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55	European aerosol phenomenology â 8: Harmonised source apportionment of organic aerosol using 22 Year-long ACSM/AMS datasets. <i>Environment International</i> , 2022, 166, 107325.	4.8	41
56	Estimation of atmospheric trace metal emissions in Vilnius City, Lithuania, using vertical concentration gradient and road tunnel measurement data. <i>Atmospheric Environment</i> , 2002, 36, 6001-6014.	1.9	37
57	Light scattering properties of sea-salt aerosol particles inferred from modeling studies and ground-based measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 101, 498-511.	1.1	37
58	Volcanic sulphate and arctic dust plumes over the North Atlantic Ocean. <i>Atmospheric Environment</i> , 2009, 43, 4968-4974.	1.9	37
59	Stable isotopes measurements reveal dual carbon pools contributing to organic matter enrichment in marine aerosol. <i>Scientific Reports</i> , 2016, 6, 36675.	1.6	37
60	Growth rates during coastal and marine new particle formation in western Ireland. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
61	A statistical analysis of North East Atlantic (submicron) aerosol size distributions. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12567-12578.	1.9	35
62	Model evaluation of marine primary organic aerosol emission schemes. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8553-8566.	1.9	34
63	Stable carbon fractionation in size-segregated aerosol particles produced by controlled biomass burning. <i>Journal of Aerosol Science</i> , 2015, 79, 86-96.	1.8	34
64	Simultaneous Detection of Alkylamines in the Surface Ocean and Atmosphere of the Antarctic Sympagic Environment. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 854-862.	1.2	34
65	Contrasting sources and processes of particulate species in haze days with low and high relative humidity in wintertime Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9101-9114.	1.9	34
66	In-stack emissions of heavy metals estimated by moss biomonitoring method and snow-pack analysis. <i>Atmospheric Environment</i> , 2002, 36, 1465-1474.	1.9	33
67	Estimation of metal uptake efficiencies from precipitation in mosses in Lithuania. <i>Chemosphere</i> , 1999, 38, 445-455.	4.2	32
68	Sea-spray regulates sulfate cloud droplet activation over oceans. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	2.6	32
69	Characterization of Primary Organic Aerosol from Domestic Wood, Peat, and Coal Burning in Ireland. <i>Environmental Science & Technology</i> , 2017, 51, 10624-10632.	4.6	31
70	Elucidating carbonaceous aerosol sources by the stable carbon $\delta^{13}C_{TC}$ ratio in size-segregated particles. <i>Atmospheric Research</i> , 2015, 158-159, 1-12.	1.8	30
71	extended study of atmospheric heavy metal deposition in lithuania based on moss analysis. <i>Environmental Monitoring and Assessment</i> , 1997, 47, 135-152.	1.3	29
72	Global relevance of marine organic aerosol as ice nucleating particles. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11423-11445.	1.9	29

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73	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8991-9019.	1.9	27
74	Sea spray as an obscured source for marine cloud nuclei. <i>Nature Geoscience</i> , 2022, 15, 282-286.	5.4	27
75	Atmospheric Pb and Cd input into the Baltic Sea: a new estimate based on measurements. <i>Marine Chemistry</i> , 2000, 71, 297-307.	0.9	26
76	Chemical nature and sources of fine particles in urban Beijing: Seasonality and formation mechanisms. <i>Environment International</i> , 2020, 140, 105732.	4.8	26
77	Effects of NH ₃ and alkaline metals on the formation of particulate sulfate and nitrate in wintertime Beijing. <i>Science of the Total Environment</i> , 2020, 717, 137190.	3.9	26
78	Direct field evidence of autocatalytic iodine release from atmospheric aerosol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	25
79	The Eyjafjallajökull ash plume “ Part I: Physical, chemical and optical characteristics. <i>Atmospheric Environment</i> , 2012, 48, 129-142.	1.9	24
80	Sources and atmospheric processing of size segregated aerosol particles revealed by stable carbon isotope ratios and chemical speciation. <i>Environmental Pollution</i> , 2018, 240, 286-296.	3.7	24
81	Top-down and bottom-up aerosol “cloud closure: towards understanding sources of uncertainty in deriving cloud shortwave radiative flux. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9797-9814.	1.9	21
82	Shipborne measurements of Antarctic submicron organic aerosols: an NMR perspective linking multiple sources and bioregions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4193-4207.	1.9	21
83	Bistable effect of organic enrichment on sea spray radiative properties. <i>Geophysical Research Letters</i> , 2013, 40, 6395-6398.	1.5	20
84	The EMEP Intensive Measurement Period campaign, 2008–2009: characterizing carbonaceous aerosol at nine rural sites in Europe. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4211-4233.	1.9	20
85	Concentrations and fluxes of aerosol particles during the LAPBIAT measurement campaign at Várri field station. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3683-3700.	1.9	19
86	Aerosol hygroscopicity and its link to chemical composition in the coastal atmosphere of Mace Head: marine and continental air masses. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3777-3791.	1.9	19
87	The seaweeds <i>Fucus vesiculosus</i> and <i>Ascophyllum nodosum</i> are significant contributors to coastal iodine emissions. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5255-5264.	1.9	18
88	Apportionment of urban aerosol sources in Cork (Ireland) by synergistic measurement techniques. <i>Science of the Total Environment</i> , 2014, 493, 197-208.	3.9	18
89	The Eyjafjallajökull ash plume “ Part 2: Simulating ash cloud dispersion with REMOTE. <i>Atmospheric Environment</i> , 2012, 48, 143-151.	1.9	17
90	Study of Emissions from Domestic Solid-Fuel Stove Combustion in Ireland. <i>Energy & Fuels</i> , 2021, 35, 4966-4978.	2.5	17

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91	Validation of CALINE4 modelling for carbon monoxide concentrations under free-flowing and congested traffic conditions in Ireland. <i>International Journal of Environment and Pollution</i> , 2005, 24, 104.	0.2	16
92	Seasonal variations in the sources of organic aerosol in Xi'an, Northwest China: The importance of biomass burning and secondary formation. <i>Science of the Total Environment</i> , 2020, 737, 139666.	3.9	16
93	Effect of horizontal resolution on meteorology and air-quality prediction with a regional scale model. <i>Atmospheric Research</i> , 2011, 101, 574-594.	1.8	14
94	Characterization of volcanic ash from the 2011 GrÃmsvÃttn eruption by means of single-particle analysis. <i>Atmospheric Environment</i> , 2013, 79, 411-420.	1.9	14
95	Wintertime aerosol dominated by solid-fuel-burning emissions across Ireland: insight into the spatial and chemical variation in submicron aerosol. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14091-14106.	1.9	14
96	Contribution of Water-Soluble Organic Matter from Multiple Marine Geographic Eco-Regions to Aerosols around Antarctica. <i>Environmental Science & Technology</i> , 2020, 54, 7807-7817.	4.6	13
97	Marine submicron aerosol gradients, sources and sinks. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12425-12439.	1.9	12
98	Sophisticated Clean Air Strategies Required to Mitigate Against Particulate Organic Pollution. <i>Scientific Reports</i> , 2017, 7, 44737.	1.6	11
99	Particulate methanesulfonic acid over the central Mediterranean Sea: Source region identification and relationship with phytoplankton activity. <i>Atmospheric Research</i> , 2020, 237, 104837.	1.8	11
100	Linking Marine Biological Activity to Aerosol Chemical Composition and Cloud-Relevant Properties Over the North Atlantic Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032246.	1.2	10
101	The impact of traffic on air quality in Ireland: insights from the simultaneous kerbside and suburban monitoring of submicron aerosols. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10513-10529.	1.9	10
102	Impact of volcanic ash plume aerosol on cloud microphysics. <i>Atmospheric Environment</i> , 2012, 48, 205-218.	1.9	9
103	Identification of wintertime carbonaceous fine particulate matter (PM2.5) sources in Kaunas, Lithuania using polycyclic aromatic hydrocarbons and stable carbon isotope analysis. <i>Atmospheric Environment</i> , 2020, 237, 117673.	1.9	9
104	Six years of surface remote sensing of stratiform warm clouds in marine and continental air over Mace Head, Ireland. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,538.	1.2	8
105	Local and regional air pollution in Ireland during an intensive aerosol measurement campaign. <i>Journal of Environmental Monitoring</i> , 2006, 8, 479.	2.1	7
106	Biogenic and anthropogenic organic matter in aerosol over continental Europe: source characterization in the east Baltic region. <i>Journal of Atmospheric Chemistry</i> , 2012, 69, 159-174.	1.4	7
107	Summertime Aerosol over the West of Ireland Dominated by Secondary Aerosol during Long-Range Transport. <i>Atmosphere</i> , 2019, 10, 59.	1.0	7
108	Seasonal Trends of Aerosol Hygroscopicity and Mixing State in Clean Marine and Polluted Continental Air Masses Over the Northeast Atlantic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033851.	1.2	5

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109	Background levels of black carbon over remote marine locations. <i>Atmospheric Research</i> , 2022, 271, 106119.	1.8	4
110	Distinct high molecular weight organic compound (HMW-OC) types in aerosol particles collected at a coastal urban site. <i>Atmospheric Environment</i> , 2017, 171, 118-125.	1.9	3
111	The impact of aerosol size-dependent hygroscopicity and mixing state on the cloud condensation nuclei potential over the north-east Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8655-8675.	1.9	3
112	On the use of reference mass spectra for reducing uncertainty in source apportionment of solid-fuel burning in ambient organic aerosol. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6905-6916.	1.2	3
113	Phytoplankton Impact on Marine Cloud Microphysical Properties Over the Northeast Atlantic Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	3
114	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 <i>Atmos. Chem. Phys.</i> , 10, 8413-8435, 2010. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8549-8549.	1.9	2
115	Cleaner air: Brightening the pollution perspective?. , 2013, , .		2
116	Seasonality of Aerosol Sources Calls for Distinct Air Quality Mitigation Strategies. <i>Toxics</i> , 2022, 10, 121.	1.6	2
117	Effect of instrumental particle sizing resolution on the modelling of aerosol radiative parameters. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 753-771.	1.1	1
118	Wind Speed Influences on Aerosol Optical Depth in Clean Marine Air. , 2007, , 1164-1168.		1
119	A Combined Organic-Inorganic Sea-spray Source Function. , 2007, , 1083-1087.		1
120	Ground-based remote sensing profiling of aerosols and mass concentration above Mace Head, Ireland. , 2013, , .		0
121	Submicron sea salt source fluxes. , 2013, , .		0
122	Intercontinental and regional transport of air pollution monitored at Mace Head, Ireland and over Europe. , 2013, , .		0
123	A dual behavior of primary marine organics. , 2013, , .		0
124	Marine organics effect on sea-spray light scattering. , 2013, , .		0
125	Envisioning an Integrated Assessment System and Observation Network for the North Atlantic Ocean. <i>Atmosphere</i> , 2021, 12, 955.	1.0	0
126	Similarity Between Aerosol Physicochemical Properties at a Coastal Station and Open Ocean over the North Atlantic. , 2007, , 1098-1101.		0

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127	Chemical Fluxes in North-east Atlantic Air. , 2007, , 1064-1069.		0