Colin O'Dowd

List of Publications by Year
in descending order

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351 papers	27,103 citations	7069 78 h-index	9311 143 g-index
370 all docs	370 docs citations	370 times ranked	13300 citing authors

#	Article	IF	Citations
1	Flood or Drought: How Do Aerosols Affect Precipitation?. Science, 2008, 321, 1309-1313.	6.0	1,682
2	Biogenically driven organic contribution to marine aerosol. Nature, 2004, 431, 676-680.	13.7	890
3	Atmospheric composition change â€“ global and regional air quality. Atmospheric Environment, 2009, 43, 5268-5350.	1.9	714
4	Marine aerosol formation from biogenic iodine emissions. Nature, 2002, 417, 632-636.	13.7	705
5	The effect of physical and chemical aerosol properties on warm cloud droplet activation. Atmospheric Chemistry and Physics, 2006, 6, 2593-2649.	1.9	690
6	Mobility particle size spectrometers: harmonization of technical standards and data structure to facilitate high quality long-term observations of atmospheric particle number size distributions. Atmospheric Measurement Techniques, 2012, 5, 657-685.	1.2	689
7	Atmospheric composition change: Ecosystemsâ€“Atmosphere interactions. Atmospheric Environment, 2009, 43, 5193-5267.	1.9	609
8	Marine aerosol, sea-salt, and the marine sulphur cycle: a short review. Atmospheric Environment, 1997, 31, 73-80.	1.9	596
9	Marine aerosol production: a review of the current knowledge. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1753-1774.	1.6	575
10	Production flux of sea spray aerosol. Reviews of Geophysics, 2011, 49, .	9.0	458
11	Atmospheric particles from organic vapours. Nature, 2002, 416, 497-498.	13.7	395
12	Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates. Geophysical Research Letters, 2008, 35, .	1.5	380
13	An overview of current issues in the uptake of atmospheric trace gases by aerosols and clouds. Atmospheric Chemistry and Physics, 2010, 10, 10561-10605.	1.9	352
14	Important Source of Marine Secondary Organic Aerosol from Biogenic Amines. Environmental Science & Technology, 2008, 42, 9116-9121.	4.6	349
15	Use of Carnobacterium sp. as a probiotic for Atlantic salmon (Salmo salar L.) and rainbow trout (Oncorhynchus mykiss, Walbaum). Aquaculture, 2000, 185, 235-243.	1.7	327
16	Advances in characterization of size-resolved organic matter in marine aerosol over the North Atlantic. Journal of Geophysical Research, 2004, 109, .	3.3	322
17	Physicochemical properties of aerosols over the northeast Atlantic: Evidence for windâ€speedâ€related submicron seaâ€salt aerosol production. Journal of Geophysical Research, 1993, 98, 1137-1149.	3.3	309
18	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.	1.9	308

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19	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	1.9	278
20	A modeling study of iodine chemistry in the marine boundary layer. Journal of Geophysical Research, 2000, 105, 14371-14385.	3.3	252
21	EUCAARI ion spectrometer measurements at 12 European sites â€“ analysis of new particle formation events. Atmospheric Chemistry and Physics, 2010, 10, 7907-7927.	1.9	248
22	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO3. Nature, 2016, 537, 532-534.	13.7	237
23	Surface tension prevails over solute effect in organic-influenced cloud droplet activation. Nature, 2017, 546, 637-641.	13.7	232
24	On the formation, growth and composition of nucleation mode particles. Tellus, Series B: Chemical and Physical Meteorology, 2001, 53, 479-490.	0.8	221
25	Evaluation of Mixing-Height Retrievals from Automatic Profiling Lidars and Ceilometers in View of Future Integrated Networks in Europe. Boundary-Layer Meteorology, 2012, 143, 49-75.	1.2	219
26	Number size distributions and seasonality of submicron particles in Europe 2008â€“2009. Atmospheric Chemistry and Physics, 2011, 11, 5505-5538.	1.9	214
27	Physical characterization of aerosol particles during nucleation events. Tellus, Series B: Chemical and Physical Meteorology, 2001, 53, 344-358.	0.8	212
28	Explaining global surface aerosol number concentrations in terms of primary emissions and particle formation. Atmospheric Chemistry and Physics, 2010, 10, 4775-4793.	1.9	212
29	Condensation and coagulation sinks and formation of nucleation mode particles in coastal and boreal forest boundary layers. Journal of Geophysical Research, 2002, 107, PAR 2-1.	3.3	205
30	The role of VOC oxidation products in continental new particle formation. Atmospheric Chemistry and Physics, 2008, 8, 2657-2665.	1.9	202
31	New particle formation from photooxidation of diiodomethane (CH2I2). Journal of Geophysical Research, 2003, 108, .	3.3	200
32	On the photochemical production of new particles in the coastal boundary layer. Geophysical Research Letters, 1999, 26, 1707-1710.	1.5	197
33	Introduction: European Integrated Project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2009, 9, 2825-2841.	1.9	196
34	Global scale emission and distribution of sea-spray aerosol: Sea-salt and organic enrichment. Atmospheric Environment, 2010, 44, 670-677.	1.9	196
35	Seasonal characteristics of the physicochemical properties of North Atlantic marine atmospheric aerosols. Journal of Geophysical Research, 2007, 112, .	3.3	189
36	Ubiquity of organic nitrates from nighttime chemistry in the European submicron aerosol. Geophysical Research Letters, 2016, 43, 7735-7744.	1.5	182

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37	Iodine oxide homogeneous nucleation: An explanation for coastal new particle production. Geophysical Research Letters, 2001, 28, 1949-1952.	1.5	177
38	Organic aerosol formation via sulphate cluster activation. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	175
39	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.	0.6	175
40	A combined organicâ€inorganic seaâ€spray source function. Geophysical Research Letters, 2008, 35, .	1.5	173
41	New particle formation: Nucleation rates and spatial scales in the clean marine coastal environment. Geophysical Research Letters, 1998, 25, 1661-1664.	1.5	168
42	Emissions from Ships with respect to Their Effects on Clouds. Journals of the Atmospheric Sciences, 2000, 57, 2570-2590.	0.6	166
43	A dedicated study of New Particle Formation and Fate in the Coastal Environment (PARFORCE): Overview of objectives and achievements. Journal of Geophysical Research, 2002, 107, PAR 1-1.	3.3	165
44	Coastal New Particle Formation: A Review of the Current State-Of-The-Art. Environmental Chemistry, 2005, 2, 245.	0.7	161
45	Surfactants and submicron sea spray generation. Journal of Geophysical Research, 2006, 111, .	3.3	155
46	Severe Pollution in China Amplified by Atmospheric Moisture. Scientific Reports, 2017, 7, 15760.	1.6	151
47	Wind speed dependent size-resolved parameterization for the organic mass fraction of sea spray aerosol. Atmospheric Chemistry and Physics, 2011, 11, 8777-8790.	1.9	150
48	Brown Carbon Aerosol in Urban Xiâ€™an, Northwest China: The Composition and Light Absorption Properties. Environmental Science & Technology, 2018, 52, 6825-6833.	4.6	149
49	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. Atmospheric Chemistry and Physics, 2014, 14, 4679-4713.	1.9	148
50	Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations. Atmospheric Chemistry and Physics, 2017, 17, 3637-3658.	1.9	144
51	Physical characterization of aerosol particles during nucleation events. Tellus, Series B: Chemical and Physical Meteorology, 2001, 53, 344-358.	0.8	142
52	Gas-aerosol relationships of H2SO4, MSA, and OH: Observations in the coastal marine boundary layer at Mace Head, Ireland. Journal of Geophysical Research, 2002, 107, PAR 5-1.	3.3	137
53	Detection of Cloud-Base Height Using Jenoptik CHM15K and Vaisala CL31 Ceilometers. Journal of Atmospheric and Oceanic Technology, 2010, 27, 305-318.	0.5	137
54	Aerosol direct radiative effects over the northwest Atlantic, northwest Pacific, and North Indian Oceans: estimates based on in-situ chemical and optical measurements and chemical transport modeling. Atmospheric Chemistry and Physics, 2006, 6, 1657-1732.	1.9	135

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55	Physical characterization of aerosol particles during nucleation events. Tellus, Series B: Chemical and Physical Meteorology, 2022, 53, 344.	0.8	131
56	Aerosol decadal trends â€“ Part 1: In-situ optical measurements at GAW and IMPROVE stations. Atmospheric Chemistry and Physics, 2013, 13, 869-894.	1.9	126
57	Source-Specific Health Risk Analysis on Particulate Trace Elements: Coal Combustion and Traffic Emission As Major Contributors in Wintertime Beijing. Environmental Science & Technology, 2018, 52, 10967-10974.	4.6	125
58	Coastal new particle formation: Environmental conditions and aerosol physicochemical characteristics during nucleation bursts. Journal of Geophysical Research, 2002, 107, PAR 12-1.	3.3	121
59	The relative importance of nonâ€seaâ€salt sulphate and seaâ€salt aerosol to the marine cloud condensation nuclei population: An improved multiâ€component aerosolâ€cloud droplet parametrization. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 1295-1313.	1.0	118
60	Primary marine organic aerosol: A dichotomy of low hygroscopicity and high CCN activity. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	118
61	ACTRIS ACSM intercomparison â€“ Part 2: Intercomparison of ME-2 organic source apportionment results from 15 individual, co-located aerosol mass spectrometers. Atmospheric Measurement Techniques, 2015, 8, 2555-2576.	1.2	118
62	Quantification of the carbonaceous matter origin in submicron marine aerosol by ¹³C and ¹⁴C isotope analysis. Atmospheric Chemistry and Physics, 2011, 11, 8593-8606.	1.9	114
63	Detecting high contributions of primary organic matter to marine aerosol: A case study. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	113
64	A sea spray aerosol flux parameterization encapsulating wave state. Atmospheric Chemistry and Physics, 2014, 14, 1837-1852.	1.9	113
65	Global analysis of continental boundary layer new particle formation based on long-term measurements. Atmospheric Chemistry and Physics, 2018, 18, 14737-14756.	1.9	113
66	Relationship of oceanic whitecap coverage to wind speed and wind history. Geophysical Research Letters, 2008, 35, .	1.5	111
67	Evaluation of a three-dimensional chemical transport model (PMCAMx) in the European domain during the EUCAARI May 2008 campaign. Atmospheric Chemistry and Physics, 2011, 11, 10331-10347.	1.9	111
68	Coupling sea-salt and sulphate interactions and its impact on cloud droplet concentration predictions. Geophysical Research Letters, 1999, 26, 1311-1314.	1.5	110
69	Primary versus secondary contributions to particle number concentrations in the European boundary layer. Atmospheric Chemistry and Physics, 2011, 11, 12007-12036.	1.9	110
70	Long-term cloud condensation nuclei number concentration, particle number size distribution and chemical composition measurements at regionally representative observatories. Atmospheric Chemistry and Physics, 2018, 18, 2853-2881.	1.9	108
71	Biogenic sulphur emissions and inferred non-sea-salt-sulphate cloud condensation nuclei in and around Antarctica. Journal of Geophysical Research, 1997, 102, 12839-12854.	3.3	107
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	ACTRIS ACSM intercomparison â€“ Part 1: Reproducibility of concentration and fragment results from 13 individual Quadrupole Aerosol Chemical Speciation Monitors (Q-ACSM) and consistency with co-located instruments. Atmospheric Measurement Techniques, 2015, 8, 5063-5087.	1.2	104
74	Arctic sea ice melt leads to atmospheric new particle formation. Scientific Reports, 2017, 7, 3318.	1.6	101
75	Can new particle formation occur in the clean marine boundary layer?. Journal of Geophysical Research, 2000, 105, 26531-26546.	3.3	100
76	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.	1.2	98
77	Marine aerosol chemistry gradients: Elucidating primary and secondary processes and fluxes. Geophysical Research Letters, 2008, 35, .	1.5	93
78	Significant enhancement of aerosol optical depth in marine air under high wind conditions. Geophysical Research Letters, 2008, 35, .	1.5	93
79	Global Modeling of the Oceanic Source of Organic Aerosols. Advances in Meteorology, 2010, 2010, 1-16.	0.6	93
80	Submicron sea spray fluxes. Geophysical Research Letters, 2005, 32, .	1.5	92
81	Biogenic iodine emissions and identification of end-products in coastal ultrafine particles during nucleation bursts. Journal of Geophysical Research, 2002, 107, PAR 14-1.	3.3	91
82	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.	1.2	89
83	Evidence of a natural marine source of oxalic acid and a possible link to glyoxal. Journal of Geophysical Research, 2011, 116, .	3.3	86
84	The composition of nucleation and Aitken modes particles during coastal nucleation events: evidence for marine secondary organic contribution. Atmospheric Chemistry and Physics, 2006, 6, 4601-4616.	1.9	85
85	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
86	On the spatial distribution and evolution of ultrafine particles in Barcelona. Atmospheric Chemistry and Physics, 2013, 13, 741-759.	1.9	85
87	Variation of the mixing state of Saharan dust particles with atmospheric transport. Atmospheric Environment, 2010, 44, 3135-3146.	1.9	82
88	Laboratory Verification of PH-CPC's Ability to Monitor Atmospheric Sub-3 nm Clusters. Aerosol Science and Technology, 2009, 43, 126-135.	1.5	80
89	Overview of the synoptic and pollution situation over Europe during the EUCAARI-LONGREX field campaign. Atmospheric Chemistry and Physics, 2011, 11, 1065-1082.	1.9	79
90	Functionalization and fragmentation during ambient organic aerosol aging: application of the 2-D volatility basis set to field studies. Atmospheric Chemistry and Physics, 2012, 12, 10797-10816.	1.9	79

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91	Aerosol decadal trends â€“ Part 2: In-situ aerosol particle number concentrations at GAW and ACTRIS stations. Atmospheric Chemistry and Physics, 2013, 13, 895-916.	1.9	78
92	The Impact of Ship-Produced Aerosols on the Microstructure and Albedo of Warm Marine Stratocumulus Clouds: A Test of MAST Hypotheses 1i and 1ii. Journals of the Atmospheric Sciences, 2000, 57, 2554-2569.	0.6	77
93	Characteristic features of air ions at Mace Head on the west coast of Ireland. Atmospheric Research, 2008, 90, 278-286.	1.8	77
94	AÂEuropean aerosol phenomenology â€“ 6: scattering properties of atmospheric aerosol particles from 28ÂACTRIS sites. Atmospheric Chemistry and Physics, 2018, 18, 7877-7911.	1.9	76
95	Aerosol formation during PARFORCE: Ternary nucleation of H2SO4, NH3, and H2O. Journal of Geophysical Research, 2002, 107, PAR 15-1.	3.3	75
96	Characterization of urban aerosol in Cork city (Ireland) using aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2013, 13, 4997-5015.	1.9	75
97	Connecting marine productivity to sea-spray via nanoscale biological processes: Phytoplankton Dance or Death Disco?. Scientific Reports, 2015, 5, 14883.	1.6	75
98	Concentration and sources of atmospheric nitrous acid (HONO) at an urban site in Western China. Science of the Total Environment, 2017, 593-594, 165-172.	3.9	75
99	Transfer of labile organic matter and microbes from the ocean surface to the marine aerosol: an experimental approach. Scientific Reports, 2017, 7, 11475.	1.6	75
100	Applicability of condensation particle counters to measure atmospheric clusters. Atmospheric Chemistry and Physics, 2008, 8, 4049-4060.	1.9	74
101	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.	1.9	74
102	Highlights of fifty years of atmospheric aerosol research at Mace Head. Atmospheric Research, 2008, 90, 338-355.	1.8	73
103	Water-Insoluble Organics Dominate Brown Carbon in Wintertime Urban Aerosol of China: Chemical Characteristics and Optical Properties. Environmental Science & Technology, 2020, 54, 7836-7847.	4.6	72
104	Relative contribution of submicron and supermicron particles to aerosol light scattering in the marine boundary layer. Journal of Geophysical Research, 2002, 107, PAR 8-1.	3.3	70
105	Submicron particle, radon, and soot carbon characteristics over the northeast Atlantic. Journal of Geophysical Research, 1993, 98, 1123-1135.	3.3	69
106	Organic aerosol concentration and composition over Europe: insights from comparison of regional model predictions with aerosol mass spectrometer factor analysis. Atmospheric Chemistry and Physics, 2014, 14, 9061-9076.	1.9	68
107	The North Atlantic Marine Boundary Layer Experiment(NAMBLEX). Overview of the campaign held at Mace Head, Ireland, in summer 2002. Atmospheric Chemistry and Physics, 2006, 6, 2241-2272.	1.9	65
108	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.	1.2	65

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109	Quantification of Coastal New Ultra-Fine Particles Formation from In situ and Chamber Measurements during the BIOFLUX Campaign. Environmental Chemistry, 2005, 2, 260.	0.7	64
110	Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols. Scientific Reports, 2017, 7, 6047.	1.6	63
111	Summertime Primary and Secondary Contributions to Southern Ocean Cloud Condensation Nuclei. Scientific Reports, 2018, 8, 13844.	1.6	63
112	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.	1.9	61
113	Dimethyl sulfide, methane sulfonic acid and physicochemical aerosol properties in Atlantic air from the United Kingdom to Halley Bay. Journal of Geophysical Research, 1996, 101, 22855-22867.	3.3	60
114	Extreme air pollution from residential solid fuel burning. Nature Sustainability, 2018, 1, 512-517.	11.5	59
115	A synthesis of cloud condensation nuclei counter (CCNC) measurements within the EUCAARI network. Atmospheric Chemistry and Physics, 2015, 15, 12211-12229.	1.9	58
116	Modelling winter organic aerosol at the European scale with CAMx: evaluation and source apportionment with a VBS parameterization based on novel wood burning smog chamber experiments. Atmospheric Chemistry and Physics, 2017, 17, 7653-7669.	1.9	58
117	Airborne measurements of nucleation mode particles II: boreal forest nucleation events. Atmospheric Chemistry and Physics, 2009, 9, 937-944.	1.9	56
118	Volatility of aerosol at Mace Head, on the west coast of Ireland. Journal of Geophysical Research, 1990, 95, 13937-13948.	3.3	55
119	Summertime and wintertime atmospheric processes of secondary aerosol in Beijing. Atmospheric Chemistry and Physics, 2020, 20, 3793-3807.	1.9	55
120	Investigating organic aerosol loading in the remote marine environment. Atmospheric Chemistry and Physics, 2011, 11, 8847-8860.	1.9	54
121	Geochemistry of PM₁₀ over Europe during the EMEP intensive measurement periods in summerÂ2012 and winterÂ2013. Atmospheric Chemistry and Physics, 2016, 16, 6107-6129.	1.9	54
122	Characterization of the light-absorbing properties, chromophore composition and sources of brown carbon aerosol in Xi'an, northwestern China. Atmospheric Chemistry and Physics, 2020, 20, 5129-5144.	1.9	54
123	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
124	Observations and modelling of aerosol growth in marine stratocumulusâ€"case study. Atmospheric Environment, 1999, 33, 3053-3062.	1.9	52
125	Modelling the formation of organic particles in the atmosphere. Atmospheric Chemistry and Physics, 2004, 4, 1071-1083.	1.9	51
126	On the occurrence of open ocean particle production and growth events. Geophysical Research Letters, 2010, 37, .	1.5	51

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127	Dimethyl sulfide and its oxidation products in the atmosphere of the Atlantic and Southern Oceans. Atmospheric Environment, 1996, 30, 1895-1906.	1.9	50
128	New Directions: Organic matter contribution to marine aerosols and cloud condensation nuclei. Atmospheric Environment, 2008, 42, 7821-7822.	1.9	49
129	Light scattering enhancement factors in the marine boundary layer (Mace Head, Ireland). Journal of Geophysical Research, 2010, 115, .	3.3	48
130	Biogenic coastal aerosol production and its influence on aerosol radiative properties. Journal of Geophysical Research, 2001, 106, 1545-1549.	3.3	47
131	Chemical and physical characteristics of aerosol particles at a remote coastal location, Mace Head, Ireland, during NAMBLEX. Atmospheric Chemistry and Physics, 2006, 6, 3289-3301.	1.9	47
132	Airborne measurements of nucleation mode particles I: coastal nucleation and growth rates. Atmospheric Chemistry and Physics, 2007, 7, 1491-1501.	1.9	47
133	Evaluation of European air quality modelled by CAMx including the volatility basis set scheme. Atmospheric Chemistry and Physics, 2016, 16, 10313-10332.	1.9	47
134	Measurements of the aerosol chemical composition and mixing state in the Po Valley using multiple spectroscopic techniques. Atmospheric Chemistry and Physics, 2014, 14, 12109-12132.	1.9	46
135	Simulating ultrafine particle formation in Europe using a regional CTM: contribution of primary emissions versus secondary formation to aerosol number concentrations. Atmospheric Chemistry and Physics, 2012, 12, 8663-8677.	1.9	45
136	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.	1.9	44
137	Nitrogenated and aliphatic organic vapors as possible drivers for marine secondary organic aerosol growth. Journal of Geophysical Research, 2012, 117, .	3.3	44
138	Collocated observations of cloud condensation nuclei, particle size distributions, and chemical composition. Scientific Data, 2017, 4, 170003.	2.4	44
139	Organosulfates in atmospheric aerosol: synthesis and quantitative analysis of PM_{2.5} from Xi'an, northwestern China. Atmospheric Measurement Techniques, 2018, 11, 3447-3456.	1.2	44
140	Mid-latitude North-Atlantic aerosol characteristics in clean and polluted air. Atmospheric Research, 2001, 58, 167-185.	1.8	42
141	Lidar observations of atmospheric boundary layer structure and sea spray aerosol plumes generation and transport at Mace Head, Ireland (PARFORCE experiment). Journal of Geophysical Research, 2002, 107, PAR 11-1.	3.3	42
142	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.	1.9	42
143	Do anthropogenic, continental or coastal aerosol sources impact on a marine aerosol signature at Mace Head?. Atmospheric Chemistry and Physics, 2014, 14, 10687-10704.	1.9	42
144	Distinctions in source regions and formation mechanisms of secondary aerosol in Beijing from summer to winter. Atmospheric Chemistry and Physics, 2019, 19, 10319-10334.	1.9	42

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145	SO₂ oxidation products other than H₂SO₄ as a trigger of new particle formation. Part 2: Comparison of ambient and laboratory measurements, and atmospheric implications. Atmospheric Chemistry and Physics, 2008, 8, 7255-7264.	1.9	41
146	Variations in tropospheric submicron particle size distributions across the European continent 2008â€“2009. Atmospheric Chemistry and Physics, 2014, 14, 4327-4348.	1.9	41
147	Response of the Aerodyne Aerosol Mass Spectrometer to Inorganic Sulfates and Organosulfur Compounds: Applications in Field and Laboratory Measurements. Environmental Science & Technology, 2019, 53, 5176-5186.	4.6	41
148	European aerosol phenomenology â˜’ 8: Harmonised source apportionment of organic aerosol using 22 Year-long ACSM/AMS datasets. Environment International, 2022, 166, 107325.	4.8	41
149	A Case Study of Ships Forming and Not Forming Tracks in Moderately Polluted Clouds. Journals of the Atmospheric Sciences, 2000, 57, 2729-2747.	0.6	40
150	An overview of the Lagrangian experiments undertaken during the North Atlantic regional Aerosol Characterisation Experiment (ACE-2). Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 290.	0.8	40
151	Aerosol distribution over Europe: a model evaluation study with detailed aerosol microphysics. Atmospheric Chemistry and Physics, 2008, 8, 1591-1607.	1.9	40
152	Physical characteristics of the ambient aerosol at mace head. Atmospheric Environment Part A General Topics, 1991, 25, 557-562.	1.3	39
153	Aerosol dynamics in ship tracks. Journal of Geophysical Research, 1999, 104, 31077-31095.	3.3	39
154	Modeling heterogeneous sulphate production in maritime stratiform clouds. Journal of Geophysical Research, 2000, 105, 7143-7160.	3.3	39
155	Composition of 15â€“85 nm particles in marine air. Atmospheric Chemistry and Physics, 2014, 14, 11557-11569.	1.9	39
156	Novel insights on new particle formation derived from a pan-european observing system. Scientific Reports, 2018, 8, 1482.	1.6	39
157	Hygroscopic and CCN properties of aerosol particles in boreal forests. Tellus, Series B: Chemical and Physical Meteorology, 2001, 53, 359-379.	0.8	38
158	Size-differentiated volatility analysis of internally mixed laboratory-generated aerosol. Journal of Aerosol Science, 2002, 33, 555-579.	1.8	38
159	Missing SO₂ oxidant in the coastal atmosphere? â€“ observations from high-resolution measurements of OH and atmospheric sulfur compounds. Atmospheric Chemistry and Physics, 2014, 14, 12209-12223.	1.9	38
160	On the Origin of AMS â€œCooking Organic Aerosolâ€•at a Rural Site. Environmental Science & Technology, 2015, 49, 13964-13972.	4.6	38
161	Observations of accumulation mode aerosol composition and soot carbon concentrations by means of a high-temperature volatility technique. Journal of Geophysical Research, 1996, 101, 19583-19591.	3.3	37
162	A Case Study of Ship Track Formation in a Polluted Marine Boundary Layer. Journals of the Atmospheric Sciences, 2000, 57, 2748-2764.	0.6	37

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163	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.	1.1	37
164	Volcanic sulphate and arctic dust plumes over the North Atlantic Ocean. Atmospheric Environment, 2009, 43, 4968-4974.	1.9	37
165	Stable isotopes measurements reveal dual carbon pools contributing to organic matter enrichment in marine aerosol. Scientific Reports, 2016, 6, 36675.	1.6	37
166	Growth rates during coastal and marine new particle formation in western Ireland. Journal of Geophysical Research, 2010, 115, .	3.3	36
167	Determination of alkylamines in atmospheric aerosol particles: a comparison of gas chromatographyâ€“mass spectrometry and ion chromatography approaches. Atmospheric Measurement Techniques, 2014, 7, 2027-2035.	1.2	36
168	Effects of two different biogenic emission models on modelled ozone and aerosol concentrations in Europe. Atmospheric Chemistry and Physics, 2019, 19, 3747-3768.	1.9	36
169	The use of the pulse height analyser ultrafine condensation particle counter (PHA-UCPC) technique applied to sizing of nucleation mode particles of differing chemical composition. Journal of Aerosol Science, 2004, 35, 205-216.	1.8	35
170	A statistical analysis of North East Atlantic (submicron) aerosol size distributions. Atmospheric Chemistry and Physics, 2011, 11, 12567-12578.	1.9	35
171	Sources of organic aerosols in Europe: a modeling study using CAMx with modified volatility basis set scheme. Atmospheric Chemistry and Physics, 2019, 19, 15247-15270.	1.9	35
172	A model prediction of the yield of cloud condensation nuclei from coastal nucleation events. Journal of Geophysical Research, 2002, 107, PAR 3-1.	3.3	34
173	Modelling Iodine Particle Formation and Growth from Seaweed in a Chamber. Environmental Chemistry, 2005, 2, 271.	0.7	34
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