

Colin O Dowd

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329
papers

21,945
citations

77
h-index

139
g-index

370
ext. papers

24,793
ext. citations

6.6
avg, IF

6.3
L-index

#	Paper	IF	Citations
329	Flood or drought: how do aerosols affect precipitation?. <i>Science</i> , 2008 , 321, 1309-13	33.3	1352
328	Biogenically driven organic contribution to marine aerosol. <i>Nature</i> , 2004 , 431, 676-80	50.4	761
327	Marine aerosol formation from biogenic iodine emissions. <i>Nature</i> , 2002 , 417, 632-6	50.4	611
326	Atmospheric composition change [g]lobal and regional air quality. <i>Atmospheric Environment</i> , 2009 , 43, 5268-5350	5.3	592
325	The effect of physical and chemical aerosol properties on warm cloud droplet activation. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2593-2649	6.8	571
324	Mobility particle size spectrometers: harmonization of technical standards and data structure to facilitate high quality long-term observations of atmospheric particle number size distributions. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 657-685	4	531
323	Marine aerosol, sea-salt, and the marine sulphur cycle: a short review. <i>Atmospheric Environment</i> , 1997 , 31, 73-80	5.3	518
322	Atmospheric composition change: Ecosystems/Atmosphere interactions. <i>Atmospheric Environment</i> , 2009 , 43, 5193-5267	5.3	506
321	Marine aerosol production: a review of the current knowledge. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007 , 365, 1753-74	3	475
320	Production flux of sea spray aerosol. <i>Reviews of Geophysics</i> , 2011 , 49,	23.1	366
319	Aerosol formation: atmospheric particles from organic vapours. <i>Nature</i> , 2002 , 416, 497-8	50.4	348
318	Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	329
317	An overview of current issues in the uptake of atmospheric trace gases by aerosols and clouds. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10561-10605	6.8	296
316	Important source of marine secondary organic aerosol from biogenic amines. <i>Environmental Science & Technology</i> , 2008 , 42, 9116-21	10.3	295
315	Advances in characterization of size-resolved organic matter in marine aerosol over the North Atlantic. <i>Journal of Geophysical Research</i> , 2004 , 109,		287
314	Physicochemical properties of aerosols over the northeast Atlantic: Evidence for wind-speed-related submicron sea-salt aerosol production. <i>Journal of Geophysical Research</i> , 1993 , 98, 1137-1149		275
313	Use of <i>Carnobacterium</i> sp. as a probiotic for Atlantic salmon (<i>Salmo salar</i> L.) and rainbow trout (<i>Oncorhynchus mykiss</i> , Walbaum). <i>Aquaculture</i> , 2000 , 185, 235-243	4.4	273

312	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	6.8	232
311	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) Integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13061-13143	6.8	231
310	A modeling study of iodine chemistry in the marine boundary layer. <i>Journal of Geophysical Research</i> , 2000 , 105, 14371-14385		225
309	EUCAARI ion spectrometer measurements at 12 European sites Analysis of new particle formation events. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7907-7927	6.8	204
308	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001 , 53, 479-490	3.3	200
307	Physical characterization of aerosol particles during nucleation events. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001 , 53, 344-358	3.3	190
306	Evaluation of Mixing-Height Retrievals from Automatic Profiling Lidars and Ceilometers in View of Future Integrated Networks in Europe. <i>Boundary-Layer Meteorology</i> , 2012 , 143, 49-75	3.4	181
305	The role of VOC oxidation products in continental new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2657-2665	6.8	175
304	Seasonal characteristics of the physicochemical properties of North Atlantic marine atmospheric aerosols. <i>Journal of Geophysical Research</i> , 2007 , 112,		173
303	Number size distributions and seasonality of submicron particles in Europe 2008-2009. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 5505-5538	6.8	172
302	On the photochemical production of new particles in the coastal boundary layer. <i>Geophysical Research Letters</i> , 1999 , 26, 1707-1710	4.9	172
301	Introduction: European Integrated Project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) Integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2825-2841	6.8	170
300	Explaining global surface aerosol number concentrations in terms of primary emissions and particle formation. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4775-4793	6.8	167
299	New particle formation from photooxidation of diiodomethane (CH ₂ I ₂). <i>Journal of Geophysical Research</i> , 2003 , 108,		164
298	Condensation and coagulation sinks and formation of nucleation mode particles in coastal and boreal forest boundary layers. <i>Journal of Geophysical Research</i> , 2002 , 107, PAR 2-1		163
297	Surface tension prevails over solute effect in organic-influenced cloud droplet activation. <i>Nature</i> , 2017 , 546, 637-641	50.4	162
296	Global scale emission and distribution of sea-spray aerosol: Sea-salt and organic enrichment. <i>Atmospheric Environment</i> , 2010 , 44, 670-677	5.3	161
295	A combined organic-inorganic sea-spray source function. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	156

294	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO. <i>Nature</i> , 2016 , 537, 532-534	50.4	155
293	Iodine oxide homogeneous nucleation: An explanation for coastal new particle production. <i>Geophysical Research Letters</i> , 2001 , 28, 1949-1952	4.9	150
292	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	1.7	149
291	New particle formation: Nucleation rates and spatial scales in the clean marine coastal environment. <i>Geophysical Research Letters</i> , 1998 , 25, 1661-1664	4.9	148
290	Coastal New Particle Formation: A Review of the Current State-Of-The-Art. <i>Environmental Chemistry</i> , 2005 , 2, 245	3.2	143
289	A dedicated study of New Particle Formation and Fate in the Coastal Environment (PARFORCE): Overview of objectives and achievements. <i>Journal of Geophysical Research</i> , 2002 , 107, PAR 1-1		142
288	Organic aerosol formation via sulphate cluster activation. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		136
287	Emissions from Ships with respect to Their Effects on Clouds. <i>Journals of the Atmospheric Sciences</i> , 2000 , 57, 2570-2590	2.1	132
286	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	6.8	130
285	Surfactants and submicron sea spray generation. <i>Journal of Geophysical Research</i> , 2006 , 111,		127
284	Severe Pollution in China Amplified by Atmospheric Moisture. <i>Scientific Reports</i> , 2017 , 7, 15760	4.9	122
283	Ubiquity of organic nitrates from nighttime chemistry in the European submicron aerosol. <i>Geophysical Research Letters</i> , 2016 , 43, 7735-7744	4.9	119
282	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. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1657-1732	6.8	115
281	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4679-4713	6.8	114
280	Detection of Cloud-Base Height Using Jenoptik CHM15K and Vaisala CL31 Ceilometers. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010 , 27, 305-318	2	113
279	The relative importance of non-sea-salt sulphate and sea-salt aerosol to the marine cloud condensation nuclei population: An improved multi-component aerosol-cloud droplet parametrization. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999 , 125, 1295-1313	6.4	110
278	Gas-aerosol relationships of H ₂ SO ₄ , MSA, and OH: Observations in the coastal marine boundary layer at Mace Head, Ireland. <i>Journal of Geophysical Research</i> , 2002 , 107, PAR 5-1		108
277	Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3637-3658	6.8	107

276	Coastal new particle formation: Environmental conditions and aerosol physicochemical characteristics during nucleation bursts. <i>Journal of Geophysical Research</i> , 2002 , 107, PAR 12-1		105
275	Coupling sea-salt and sulphate interactions and its impact on cloud droplet concentration predictions. <i>Geophysical Research Letters</i> , 1999 , 26, 1311-1314	4.9	103
274	Aerosol decadal trends [Part 1: In-situ optical measurements at GAW and IMPROVE stations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 869-894	6.8	102
273	Detecting high contributions of primary organic matter to marine aerosol: A case study. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	100
272	Primary marine organic aerosol: A dichotomy of low hygroscopicity and high CCN activity. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	100
271	Relationship of oceanic whitecap coverage to wind speed and wind history. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	97
270	Evaluation of a three-dimensional chemical transport model (PMCAMx) in the European domain during the EUCAARI May 2008 campaign. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 10331-10347	6.8	96
269	Quantification of the carbonaceous matter origin in submicron marine aerosol by $\delta^{13}C$ and $\delta^{14}C$ isotope analysis. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8593-8606	6.8	96
268	Primary versus secondary contributions to particle number concentrations in the European boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12007-12036	6.8	95
267	Biogenic sulphur emissions and inferred non-sea-salt-sulphate cloud condensation nuclei in and around Antarctica. <i>Journal of Geophysical Research</i> , 1997 , 102, 12839-12854		94
266	ACTRIS ACSM intercomparison [Part 2: Intercomparison of ME-2 organic source apportionment results from 15 individual, co-located aerosol mass spectrometers. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 2555-2576	4	92
265	Physical characterization of aerosol particles during nucleation events. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001 , 53, 344-358	3.3	91
264	A sea spray aerosol flux parameterization encapsulating wave state. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1837-1852	6.8	88
263	Brown Carbon Aerosol in Urban Xi'an, Northwest China: The Composition and Light Absorption Properties. <i>Environmental Science & Technology</i> , 2018 , 52, 6825-6833	10.3	86
262	On the effect of wind speed on submicron sea salt mass concentrations and source fluxes. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		84
261	Can new particle formation occur in the clean marine boundary layer?. <i>Journal of Geophysical Research</i> , 2000 , 105, 26531-26546		83
260	Marine aerosol chemistry gradients: Elucidating primary and secondary processes and fluxes. <i>Geophysical Research Letters</i> , 2008 , 35, n/a-n/a	4.9	82
259	Significant enhancement of aerosol optical depth in marine air under high wind conditions. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	82

258	Biogenic iodine emissions and identification of end-products in coastal ultrafine particles during nucleation bursts. <i>Journal of Geophysical Research</i> , 2002 , 107, PAR 14-1		81
257	Submicron sea spray fluxes. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	80
256	ACTRIS ACSM intercomparison [Part 1: Reproducibility of concentration and fragment results from 13 individual Quadrupole Aerosol Chemical Speciation Monitors (Q-ACSM) and consistency with co-located instruments. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 5063-5087	4	79
255	Maintenance of iodine intake. <i>Thyroid Research</i> , 2013 , 6, A52	2.4	78
254	Is chlorophyll-a the best surrogate for organic matter enrichment in submicron primary marine aerosol?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4964-4973	4.4	78
253	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		77
252	Laboratory Verification of PH-CPC's Ability to Monitor Atmospheric Sub-3 nm Clusters. <i>Aerosol Science and Technology</i> , 2009 , 43, 126-135	3.4	77
251	The composition of nucleation and Aitken modes particles during coastal nucleation events: evidence for marine secondary organic contribution. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 4601-4616	6.8	76
250	Global Modeling of the Oceanic Source of Organic Aerosols. <i>Advances in Meteorology</i> , 2010 , 2010, 1-16	1.7	74
249	Physical characterization of aerosol particles during nucleation events		74
248	Global analysis of continental boundary layer new particle formation based on long-term measurements. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 14737-14756	6.8	73
247	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	4.4	72
246	Evidence of a natural marine source of oxalic acid and a possible link to glyoxal. <i>Journal of Geophysical Research</i> , 2011 , 116,		72
245	Functionalization and fragmentation during ambient organic aerosol aging: application of the 2-D volatility basis set to field studies. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 10797-10816	6.8	71
244	Source-Specific Health Risk Analysis on Particulate Trace Elements: Coal Combustion and Traffic Emission As Major Contributors in Wintertime Beijing. <i>Environmental Science & Technology</i> , 2018 , 52, 10967-10974	10.3	68
243	Arctic sea ice melt leads to atmospheric new particle formation. <i>Scientific Reports</i> , 2017 , 7, 3318	4.9	67
242	Applicability of condensation particle counters to measure atmospheric clusters. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 4049-4060	6.8	67
241	Overview of the synoptic and pollution situation over Europe during the EUCAARI-LONGREX field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1065-1082	6.8	66

240	On the spatial distribution and evolution of ultrafine particles in Barcelona. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 741-759	6.8	64
239	Variation of the mixing state of Saharan dust particles with atmospheric transport. <i>Atmospheric Environment</i> , 2010 , 44, 3135-3146	5.3	64
238	The Impact of Ship-Produced Aerosols on the Microstructure and Albedo of Warm Marine Stratocumulus Clouds: A Test of MAST Hypotheses 1i and 1ii. <i>Journals of the Atmospheric Sciences</i> , 2000 , 57, 2554-2569	2.1	64
237	Submicron particle, radon, and soot carbon characteristics over the northeast Atlantic. <i>Journal of Geophysical Research</i> , 1993 , 98, 1123-1135		64
236	Aerosol formation during PARFORCE: Ternary nucleation of H ₂ SO ₄ , NH ₃ , and H ₂ O. <i>Journal of Geophysical Research</i> , 2002 , 107, PAR 15-1		63
235	Relative contribution of submicron and supermicron particles to aerosol light scattering in the marine boundary layer. <i>Journal of Geophysical Research</i> , 2002 , 107, PAR 8-1		63
234	Long-term cloud condensation nuclei number concentration, particle number size distribution and chemical composition measurements at regionally representative observatories. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2853-2881	6.8	62
233	Characteristic features of air ions at Mace Head on the west coast of Ireland. <i>Atmospheric Research</i> , 2008 , 90, 278-286	5.4	62
232	Highlights of fifty years of atmospheric aerosol research at Mace Head. <i>Atmospheric Research</i> , 2008 , 90, 338-355	5.4	62
231	Aerosol decadal trends [Part 2: In-situ aerosol particle number concentrations at GAW and ACTRIS stations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 895-916	6.8	61
230	Connecting marine productivity to sea-spray via nanoscale biological processes: Phytoplankton Dance or Death Disco?. <i>Scientific Reports</i> , 2015 , 5, 14883	4.9	58
229	Dimethyl sulfide, methane sulfonic acid and physicochemical aerosol properties in Atlantic air from the United Kingdom to Halley Bay. <i>Journal of Geophysical Research</i> , 1996 , 101, 22855-22867		57
228	Organic aerosol concentration and composition over Europe: insights from comparison of regional model predictions with aerosol mass spectrometer factor analysis. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 9061-9076	6.8	56
227	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	6.8	56
226	Characterization of urban aerosol in Cork city (Ireland) using aerosol mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4997-5015	6.8	55
225	Quantification of Coastal New Ultra-Fine Particles Formation from In situ and Chamber Measurements during the BIOFLUX Campaign. <i>Environmental Chemistry</i> , 2005 , 2, 260	3.2	55
224	The North Atlantic Marine Boundary Layer Experiment(NAMBLEX). Overview of the campaign held at Mace Head, Ireland, in summer 2002. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2241-2272	6.8	54
223	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	4.4	51

222	Concentration and sources of atmospheric nitrous acid (HONO) at an urban site in Western China. <i>Science of the Total Environment</i> , 2017 , 593-594, 165-172	10.2	49
221	Volatility of aerosol at Mace Head, on the west coast of Ireland. <i>Journal of Geophysical Research</i> , 1990 , 95, 13937		49
220	Investigating organic aerosol loading in the remote marine environment. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8847-8860	6.8	47
219	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,		46
218	Airborne measurements of nucleation mode particles II: boreal forest nucleation events. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 937-944	6.8	46
217	Dimethyl sulfide and its oxidation products in the atmosphere of the Atlantic and Southern Oceans. <i>Atmospheric Environment</i> , 1996 , 30, 1895-1906	5.3	46
216	A European aerosol phenomenology 6: scattering properties of atmospheric aerosol particles from 28 ACTRIS sites. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 7877-7911	6.8	46
215	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	4.9	45
214	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. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 7653-7669	6.8	45
213	Observations and modelling of aerosol growth in marine stratocumulus case study. <i>Atmospheric Environment</i> , 1999 , 33, 3053-3062	5.3	45
212	Light scattering enhancement factors in the marine boundary layer (Mace Head, Ireland). <i>Journal of Geophysical Research</i> , 2010 , 115,		44
211	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	6.8	43
210	Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols. <i>Scientific Reports</i> , 2017 , 7, 6047	4.9	43
209	New Directions: Organic matter contribution to marine aerosols and cloud condensation nuclei. <i>Atmospheric Environment</i> , 2008 , 42, 7821-7822	5.3	43
208	Summertime Primary and Secondary Contributions to Southern Ocean Cloud Condensation Nuclei. <i>Scientific Reports</i> , 2018 , 8, 13844	4.9	43
207	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	6.8	42
206	Nitrogenated and aliphatic organic vapors as possible drivers for marine secondary organic aerosol growth. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		42
205	On the occurrence of open ocean particle production and growth events. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	42

204	Airborne measurements of nucleation mode particles I: coastal nucleation and growth rates. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 1491-1501	6.8	42
203	Biogenic coastal aerosol production and its influence on aerosol radiative properties. <i>Journal of Geophysical Research</i> , 2001 , 106, 1545-1549		42
202	Chemical and physical characteristics of aerosol particles at a remote coastal location, Mace Head, Ireland, during NAMBLEX. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 3289-3301	6.8	40
201	Measurements of the aerosol chemical composition and mixing state in the Po Valley using multiple spectroscopic techniques. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12109-12132	6.8	39
200	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	6.8	39
199	Modelling the formation of organic particles in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 1071-1083	6.8	39
198	Physical characteristics of the ambient aerosol at mace head. <i>Atmospheric Environment Part A General Topics</i> , 1991 , 25, 557-562		38
197	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	6.8	37
196	Mid-latitude North-Atlantic aerosol characteristics in clean and polluted air. <i>Atmospheric Research</i> , 2001 , 58, 167-185	5.4	37
195	Lidar observations of atmospheric boundary layer structure and sea spray aerosol plumes generation and transport at Mace Head, Ireland (PARFORCE experiment). <i>Journal of Geophysical Research</i> , 2002 , 107, PAR 11-1		36
194	Size-differentiated volatility analysis of internally mixed laboratory-generated aerosol. <i>Journal of Aerosol Science</i> , 2002 , 33, 555-579	4.3	36
193	Modeling heterogeneous sulphate production in maritime stratiform clouds. <i>Journal of Geophysical Research</i> , 2000 , 105, 7143-7160		36
192	Evaluation of European air quality modelled by CAMx including the volatility basis set scheme. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 10313-10332	6.8	35
191	A synthesis of cloud condensation nuclei counter (CCNC) measurements within the EUCAARI network. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12211-12229	6.8	35
190	Aerosol distribution over Europe: a model evaluation study with detailed aerosol microphysics. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 1591-1607	6.8	35
189	SO ₂ ; oxidation products other than H ₂ SO ₄ as a trigger of new particle formation. Part 2: Comparison of ambient and laboratory measurements, and atmospheric implications. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 7255-7264	6.8	35
188	Novel insights on new particle formation derived from a pan-european observing system. <i>Scientific Reports</i> , 2018 , 8, 1482	4.9	34
187	Volcanic sulphate and arctic dust plumes over the North Atlantic Ocean. <i>Atmospheric Environment</i> , 2009 , 43, 4968-4974	5.3	33

186	A Case Study of Ships Forming and Not Forming Tracks in Moderately Polluted Clouds. <i>Journals of the Atmospheric Sciences</i> , 2000 , 57, 2729-2747	2.1	33
185	Aerosol dynamics in ship tracks. <i>Journal of Geophysical Research</i> , 1999 , 104, 31077-31095		33
184	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	6.8	32
183	Missing SO ₂ ; oxidant in the coastal atmosphere? Observations from high-resolution measurements of OH and atmospheric sulfur compounds. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12209-12223	6.8	32
182	Simulating ultrafine particle formation in Europe using a regional CTM: contribution of primary emissions versus secondary formation to aerosol number concentrations. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8663-8677	6.8	32
181	Modelling Iodine Particle Formation and Growth from Seaweed in a Chamber. <i>Environmental Chemistry</i> , 2005 , 2, 271	3.2	32
180	Organosulfates in atmospheric aerosol: synthesis and quantitative analysis of PM _{2.5} from Xi'an, northwestern China. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 3447-3456	4	32
179	Variations in tropospheric submicron particle size distributions across the European continent 2008-2009. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4327-4348	6.8	31
178	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. <i>Journal of Aerosol Science</i> , 2004 , 35, 205-216	4.3	31
177	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001 , 53, 359-379	3.3	31
176	A model prediction of the yield of cloud condensation nuclei from coastal nucleation events. <i>Journal of Geophysical Research</i> , 2002 , 107, PAR 3-1		31
175	Observations of accumulation mode aerosol composition and soot carbon concentrations by means of a high-temperature volatility technique. <i>Journal of Geophysical Research</i> , 1996 , 101, 19583-19591		31
174	Extreme air pollution from residential solid fuel burning. <i>Nature Sustainability</i> , 2018 , 1, 512-517	22.1	31
173	Response of the Aerodyne Aerosol Mass Spectrometer to Inorganic Sulfates and Organosulfur Compounds: Applications in Field and Laboratory Measurements. <i>Environmental Science & Technology</i> , 2019 , 53, 5176-5186	10.3	30
172	Distinctions in source regions and formation mechanisms of secondary aerosol in Beijing from summer to winter. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10319-10334	6.8	30
171	Stable isotopes measurements reveal dual carbon pools contributing to organic matter enrichment in marine aerosol. <i>Scientific Reports</i> , 2016 , 6, 36675	4.9	30
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