Rita Van Dingenen

List of Publications by Year
in descending order

111 papers	41,845 citations	31949 53 h-index	29127 104 g-index
126 all docs	126 docs citations	126 times ranked	57028 citing authors

#	Article	IF	Citations
1	A simple non-linear analytical relationship between aerosol accumulation number and sub-micron volume, explaining their observed ratio in the clean and polluted marine boundary layer. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 439.	0.8	15
2	rfasst: An R tool to estimate air pollution impacts on health and agriculture. Journal of Open Source Software, 2022, 7, 3820.	2.0	2
3	Harmful Algal Blooms in Chinese Coastal Waters Will Persist Due to Perturbed Nutrient Ratios. Environmental Science and Technology Letters, 2021, 8, 276-284.	3.9	59
4	Integrate health into decision-making to foster climate action. Environmental Research Letters, 2021, 16, 041005.	2.2	5
5	Quantifying the reductions in mortality from air-pollution by cancelling new coal power plants. Energy and Climate Change, 2021, 2, 100023.	2.2	5
6	Abating ammonia is more cost-effective than nitrogen oxides for mitigating PM _{2.5} air pollution. Science, 2021, 374, 758-762.	6.0	191
7	Lower air pollution during COVID-19 lock-down: improving models and methods estimating ozone impacts on crops. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20200188.	1.6	17
8	Co-benefits of black carbon mitigation for climate and air quality. Climatic Change, 2020, 163, 1519-1538.	1.7	22
9	Spatially Explicit Inventory of Sources of Nitrogen Inputs to the Yellow Sea, East China Sea, and South China Sea for the Period 1970â€“2010. Earth's Future, 2020, 8, e2020EF001516.	2.4	32
10	LCâ€IMPACT: A regionalized life cycle damage assessment method. Journal of Industrial Ecology, 2020, 24, 1201-1219.	2.8	80
11	Comment to the paper â€œAssessing nitrogen dioxide (NO2) levels as a contributing factor to coronavirus (COVID-19) fatalityâ€, by Ogen, 2020. Science of the Total Environment, 2020, 738, 139853.	3.9	11
12	Health co-benefits and mitigation costs as per the Paris Agreement under different technological pathways for energy supply. Environment International, 2020, 136, 105513.	4.8	46
13	Coal-exit health and environmental damage reductions outweigh economic impacts. Nature Climate Change, 2020, 10, 308-312.	8.1	94
14	Effects of black carbon mitigation on Arctic climate. Atmospheric Chemistry and Physics, 2020, 20, 5527-5546.	1.9	15
15	Quantifying air quality co-benefits of climate policy across sectors and regions. Climatic Change, 2020, 163, 1501-1517.	1.7	36
16	Future impacts of ozone driven damages on agricultural systems. Atmospheric Environment, 2020, 231, 117538.	1.9	30
17	Contribution and uncertainty of sectorial and regional emissions to regional and global PM_{2.5} health impacts. Atmospheric Chemistry and Physics, 2019, 19, 5165-5186.	1.9	56
18	Nonlinear impacts of future anthropogenic aerosol emissions on Arctic warming. Environmental Research Letters, 2019, 14, 034009.	2.2	2

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19	Spatial Patterns of Crop Yield Change by Emitted Pollutant. Earth's Future, 2019, 7, 101-112.	2.4	13
20	Health co-benefits from air pollution and mitigation costs of the Paris Agreement: a modelling study. Lancet Planetary Health, The, 2018, 2, e126-e133.	5.1	443
21	Ozone pollution will compromise efforts to increase global wheat production. Global Change Biology, 2018, 24, 3560-3574.	4.2	163
22	Incentives for small clubs of Arctic countries to limit black carbon and methane emissions. Nature Climate Change, 2018, 8, 85-90.	8.1	15
23	Data Integration Model for Air Quality: A Hierarchical Approach to the Global Estimation of Exposures to Ambient Air Pollution. Journal of the Royal Statistical Society Series C: Applied Statistics, 2018, 67, 231-253.	0.5	112
24	TM5-FASST: a global atmospheric sourceâ€“receptor model for rapid impact analysis of emission changes on air quality and short-lived climate pollutants. Atmospheric Chemistry and Physics, 2018, 18, 16173-16211.	1.9	79
25	Air quality co-benefits for human health and agriculture counterbalance costs to meet Paris Agreement pledges. Nature Communications, 2018, 9, 4939.	5.8	163
26	Future Global Air Quality Indices under Different Socioeconomic and Climate Assumptions. Sustainability, 2018, 10, 3645.	1.6	17
27	Evaluation and uncertainty estimation of the impact of air quality modelling on crop yields and premature deaths using a multi-model ensemble. Science of the Total Environment, 2018, 633, 1437-1452.	3.9	26
28	Ozone effects on crops and consideration in crop models. European Journal of Agronomy, 2018, 100, 19-34.	1.9	170
29	Estimates and 25-year trends of the global burden of disease attributable to ambient air pollution: an analysis of data from the Global Burden of Diseases Study 2015. Lancet, The, 2017, 389, 1907-1918.	6.3	4,187
30	Healthcare Access and Quality Index based on mortality from causes amenable to personal health care in 195 countries and territories, 1990â€“2015: a novel analysis from the Global Burden of Disease Study 2015. Lancet, The, 2017, 390, 231-266.	6.3	480
31	Future air pollution in the Shared Socio-economic Pathways. Global Environmental Change, 2017, 42, 346-358.	3.6	277
32	Survey of Ambient Air Pollution Health Risk Assessment Tools. Risk Analysis, 2016, 36, 1718-1736.	1.5	66
33	Regionalized life cycle impact assessment of air pollution on the global scale: Damage to human health and vegetation. Atmospheric Environment, 2016, 134, 129-137.	1.9	89
34	Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980â€“2015: a systematic analysis for the Global Burden of Disease Study 2015. Lancet, The, 2016, 388, 1459-1544.	6.3	4,934
35	Forty years of improvements in European air quality: regional policy-industry interactions with global impacts. Atmospheric Chemistry and Physics, 2016, 16, 3825-3841.	1.9	255
36	A multi-model assessment of the co-benefits of climate mitigation for global air quality. Environmental Research Letters, 2016, 11, 124013.	2.2	72

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37	Ambient Air Pollution Exposure Estimation for the Global Burden of Disease 2013. Environmental Science & Technology, 2016, 50, 79-88.	4.6	886
38	Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990â€“2013: a systematic analysis for the Global Burden of Disease Study 2013. Lancet, The, 2015, 386, 743-800.	6.3	4,951
39	Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990â€“2013: a systematic analysis for the Global Burden of Disease Study 2013. Lancet, The, 2015, 386, 2287-2323.	6.3	2,184
40	Household Cooking with Solid Fuels Contributes to Ambient PM _{2.5} Air Pollution and the Burden of Disease. Environmental Health Perspectives, 2014, 122, 1314-1320.	2.8	381
41	Impacts of changes in North Atlantic atmospheric circulation on particulate matter and human health in Europe. Geophysical Research Letters, 2013, 40, 4074-4080.	1.5	16
42	Global Air Quality and Health Co-benefits of Mitigating Near-Term Climate Change through Methane and Black Carbon Emission Controls. Environmental Health Perspectives, 2012, 120, 831-839.	2.8	340
43	Satellite-based Estimates of Ambient Air Pollution and Global Variations in Childhood Asthma Prevalence. Environmental Health Perspectives, 2012, 120, 1333-1339.	2.8	57
44	A comparative risk assessment of burden of disease and injury attributable to 67 risk factors and risk factor clusters in 21 regions, 1990â€“2010: a systematic analysis for the Global Burden of Disease Study 2010. Lancet, The, 2012, 380, 2224-2260.	6.3	9,397
45	Exposure Assessment for Estimation of the Global Burden of Disease Attributable to Outdoor Air Pollution. Environmental Science & Technology, 2012, 46, 652-660.	4.6	606
46	Environmental Modeling and Methods for Estimation of the Global Health Impacts of Air Pollution. Environmental Modeling and Assessment, 2012, 17, 613-622.	1.2	61
47	Simultaneously Mitigating Near-Term Climate Change and Improving Human Health and Food Security. Science, 2012, 335, 183-189.	6.0	1,107
48	Limited potential of crop management for mitigating surface ozone impacts on global food supply. Atmospheric Environment, 2011, 45, 2569-2576.	1.9	75
49	Daily patterns of the multi-modal structure of the particle number size distribution in Milan, Italy. Atmospheric Environment, 2011, 45, 2434-2442.	1.9	34
50	Climate, health, agricultural and economic impacts of tighter vehicle-emission standards. Nature Climate Change, 2011, 1, 59-66.	8.1	153
51	A European aerosol phenomenology â€“ 3: Physical and chemical characteristics of particulate matter from 60 rural, urban, and kerbside sites across Europe. Atmospheric Environment, 2010, 44, 1308-1320.	1.9	654
52	The global impact of ozone on agricultural crop yields under current and future air quality legislation. Atmospheric Environment, 2009, 43, 604-618.	1.9	563
53	Source apportionment of urban fine and ultra-fine particle number concentration in a Western Mediterranean city. Atmospheric Environment, 2009, 43, 4407-4415.	1.9	189
54	Multimodel estimates of intercontinental sourceâ€receptor relationships for ozone pollution. Journal of Geophysical Research, 2009, 114, .	3.3	430

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55	Variations of urban aerosols in the western Mediterranean. Atmospheric Environment, 2008, 42, 9052-9062.	1.9	102
56	Using FÃ¶hn conditions to characterize urban and regional sources of particles. Atmospheric Research, 2008, 90, 159-169.	1.8	12
57	A study on the relationship between mass concentrations, chemistry and number size distribution of urban fine aerosols in Milan, Barcelona and London. Atmospheric Chemistry and Physics, 2007, 7, 2217-2232.	1.9	138
58	Possible evidence for a connection between methyl iodide emissions and Saharan dust. Journal of Geophysical Research, 2007, 112, .	3.3	23
59	The Global Atmospheric Environment for the Next Generation. Environmental Science & Technology, 2006, 40, 3586-3594.	4.6	338
60	Physical aerosol properties and their relation to air mass origin at Monte Cimone (Italy) during the first MINATROC campaign. Atmospheric Chemistry and Physics, 2005, 5, 2203-2226.	1.9	61
61	Observations and model calculations of trace gas scavenging in a dense Saharan dust plume during MINATROC. Atmospheric Chemistry and Physics, 2005, 5, 1787-1803.	1.9	103
62	Organic aerosol and global climate modelling: a review. Atmospheric Chemistry and Physics, 2005, 5, 1053-1123.	1.9	2,947
63	Characterisation of TSP and PM2.5 at IzaÃ±a and Sta. Cruz de Tenerife (Canary Islands, Spain) during a Saharan Dust Episode (July 2002). Atmospheric Environment, 2005, 39, 4715-4728.	1.9	187
64	Nucleation and growth of new particles in the rural atmosphere of Northern Italyâ€"relationship to air quality monitoring. Atmospheric Environment, 2005, 39, 6734-6746.	1.9	72
65	Instrument Characterization and First Application of the Single Particle Analysis and Sizing System (SPASS) for Atmospheric Aerosols. Aerosol Science and Technology, 2005, 39, 377-393.	1.5	30
66	Aerosol studies during the ESCOMPTE experiment: an overview. Atmospheric Research, 2005, 74, 547-563.	1.8	53
67	In situ airborne measurements of aerosol optical properties during photochemical pollution events. Journal of Geophysical Research, 2005, 110, .	3.3	28
68	Interaction of mineral dust with gas phase nitric acid and sulfur dioxide during the MINATROC II field campaign: First estimate of the uptake coefficient Î³HNO3from atmospheric data. Journal of Geophysical Research, 2005, 110, .	3.3	28
69	A European aerosol phenomenologyâ€"1: physical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. Atmospheric Environment, 2004, 38, 2561-2577.	1.9	494
70	A European aerosol phenomenologyâ€"2: chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. Atmospheric Environment, 2004, 38, 2579-2595.	1.9	801
71	Aerosol-ozone correlations during dust transport episodes. Atmospheric Chemistry and Physics, 2004, 4, 1201-1215.	1.9	123
72	Size-segregated aerosol mass closure and chemical composition in Monte Cimone (I) during MINATROC. Atmospheric Chemistry and Physics, 2004, 4, 889-902.	1.9	139

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73	Inorganic bromine in the marine boundary layer: a critical review. Atmospheric Chemistry and Physics, 2003, 3, 1301-1336.	1.9	243
74	Lidar and in situ observations of continental and Saharan aerosol: closure analysis of particles optical and physical properties. Atmospheric Chemistry and Physics, 2003, 3, 2161-2172.	1.9	40
75	A boxmodel development to study the relationships between the photo-oxidants and the particles formation in the troposphere. Annali Di Chimica, 2003, 93, 447-56.	0.6	0
76	Chapter 18 Formation and cycling of aerosols in the global troposphere. Developments in Environmental Science, 2002, , 519-563.	0.5	4
77	Urban and rural aerosol characterization of summer smog events during the PIPAPO field campaign in Milan, Italy. Journal of Geophysical Research, 2002, 107, LOP 6-1.	3.3	99
78	Submicron aerosol mass balance at urban and semirural sites in the Milan area (Italy). Journal of Geophysical Research, 2002, 107, LOP 11-1.	3.3	50
79	Pronounced decrease of ambient particle number emissions from diesel traffic in Denmark after reduction of the sulphur content in diesel fuel. Atmospheric Environment, 2001, 35, 3549-3552.	1.9	43
80	Validation of very high cloud droplet number concentrations in air masses transported thousands of kilometres over the ocean. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 801-814.	0.8	16
81	A simple non-linear analytical relationship between aerosol accumulation number and sub-micron volume, explaining their observed ratio in the clean and polluted marine boundary layer. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 439-451.	0.8	16
82	Formation and cycling of aerosols in the global troposphere. Atmospheric Environment, 2000, 34, 4215-4240.	1.9	386
83	Modelling and observations of aerosol properties in the clean and polluted marine boundary layer and free troposphere. AIP Conference Proceedings, 2000, , .	0.3	1
84	Primary aerosol characterization during urban morning rush hours. Journal of Aerosol Science, 2000, 31, 311-312.	1.8	0
85	Hygroscopic properties of aerosol formed by oxidation of limonene, Î±-pinene, and Î²-pinene. Journal of Geophysical Research, 1999, 104, 3569-3579.	3.3	151
86	Processes determining the relationship between aerosol number and non-sea-salt sulfate mass concentrations in the clean and perturbed marine boundary layer. Journal of Geophysical Research, 1999, 104, 8027-8038.	3.3	33
87	Anthropogenic influences on the chemical and physical properties of aerosols in the Atlantic subtropical region during July 1994 and July 1995. Journal of Geophysical Research, 1999, 104, 14309-14319.	3.3	15
88	Processes relating aerosol number, aerosol volume and non-seasalt sulfate concentrations in the clean and polluted marine boundary layer. Journal of Aerosol Science, 1998, 29, S1147-S1148.	1.8	0
89	Observations of aerosols in the free troposphere and marine boundary layer of the subtropical Northeast Atlantic: Discussion of processes determining their size distribution. Journal of Geophysical Research, 1997, 102, 21315-21328.	3.3	106
90	Experimental artifacts of size distributions of H2O-H2SO4 aerosol particles formed in a photochemical vertical laminar flow reactor due to its design. Journal of Aerosol Science, 1997, 28, S341-S342.	1.8	0

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91	Photolytic aerosol formation in SO2î—¸HNO2î—¸H2Oî—¸AIR mixtures, with and without NH3. Journal of Aerosol Science, 1997, 28, S719-S720.	1.8	5
92	Ultrafine number size distribution measurements and chemical characterisation of the aerosol over the atlantic ocean between 40Â°n and 40Â°s. , 1996, , 439-442.		3
93	Comment on â€œThe relationship between DMS flux and CCN concentration in remote marine regionsâ€•by S. N. Pandis, L. M. Russell, and J. H. Seinfeld. Journal of Geophysical Research, 1995, 100, 14355.	3.3	10
94	Evidence for anthropogenic impact on number concentration and sulfate content of cloud-processed aerosol particles over the North Atlantic. Journal of Geophysical Research, 1995, 100, 21057.	3.3	79
95	Peroxynitrate formation during the night-time oxidation of dimethylsulfide: Its role as a reservoir species for aerosol formation. Journal of Atmospheric Chemistry, 1994, 18, 211-237.	1.4	37
96	02.O.05 Nucleation studies of H2SO4-particles in a vertical laminar flow reactor: Experimental results and comparison with a numerical model. Journal of Aerosol Science, 1994, 25, 11-12.	1.8	4
97	Ternary nucleation of methane sulphonic acid, sulphuric acid and water vapour. Journal of Aerosol Science, 1993, 24, 1-17.	1.8	71
98	35 P 06 A new laminar flow reactor for gas/particle interaction studies: first results. Journal of Aerosol Science, 1993, 24, S391-S392.	1.8	2
99	35 P 15 Physico-chemical aerosol measurements over the North-Atlantic. Journal of Aerosol Science, 1993, 24, S409-S410.	1.8	0
100	Simulations of condensation and cloud condensation nuclei from biogenic SO₂ in the remote marine boundary layer. Journal of Geophysical Research, 1992, 97, 12901-12912.	3.3	92
101	Modelling formation and growth of H2SO4-H2O aerosols: Uncertainty analysis and experimental evaluation. Journal of Aerosol Science, 1992, 23, 759-771.	1.8	68
102	Intercomparison of Methods for Investigating the Physical Characteristics of Radon Decay Products in the Indoor Environment. Radiation Protection Dosimetry, 1992, 45, 41-46.	0.4	2
103	Determination of the Condensation Accommodation Coefficient of Sulfuric Acid on Water-Sulfuric Acid Aerosol. Aerosol Science and Technology, 1991, 15, 93-106.	1.5	69
104	Influence of Turbulence on the Deposition Rate Constant of the Unattached Radon Decay Products. Aerosol Science and Technology, 1991, 14, 257-265.	1.5	21
105	Coagulation enhancement of H2O-H2SO4 aerosols: experiments and model calculations in the transition regime. Journal of Aerosol Science, 1990, 21, S237-S240.	1.8	6
106	Molecule and aerosol particle wall losses in SMOG chambers made of glass. Journal of Aerosol Science, 1989, 20, 113-122.	1.8	34
107	Deposition of Aerosols and Unattached Radon Daughters in Different Chambers; Theory and Experiment. Radiation Protection Dosimetry, 1988, 24, 217-220.	0.4	4
108	Determination of the sticking probability of H2SO4 ON H2SO4-H2O aerosols. Lecture Notes in Physics, 1988, , 23-26.	0.3	0

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109	Deposition of gases and aerosols in smogchambers made of glass. Journal of Aerosol Science, 1987, 18, 659-661.	1.8	2
110	The role of ion-induced aerosol formation in the lower atmosphere. Journal of Aerosol Science, 1986, 17, 466-470.	1.8	45
111	Energy Pathways for Sustainable Development. , 0, , 1205-1306.		29