

Rita Van Dingenen

List of Publications by Year in descending order

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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 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. <i>Lancet, The</i> , 2012, 380, 2224-2260.	6.3	9,397
2	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. <i>Lancet, The</i> , 2015, 386, 743-800.	6.3	4,951
3	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. <i>Lancet, The</i> , 2016, 388, 1459-1544.	6.3	4,934
4	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. <i>Lancet, The</i> , 2017, 389, 1907-1918.	6.3	4,187
5	Organic aerosol and global climate modelling: a review. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1053-1123.	1.9	2,947
6	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. <i>Lancet, The</i> , 2015, 386, 2287-2323.	6.3	2,184
7	Simultaneously Mitigating Near-Term Climate Change and Improving Human Health and Food Security. <i>Science</i> , 2012, 335, 183-189.	6.0	1,107
8	Ambient Air Pollution Exposure Estimation for the Global Burden of Disease 2013. <i>Environmental Science & Technology</i> , 2016, 50, 79-88.	4.6	886
9	A European aerosol phenomenologyâ€”2: chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. <i>Atmospheric Environment</i> , 2004, 38, 2579-2595.	1.9	801
10	A European aerosol phenomenology â€” 3: Physical and chemical characteristics of particulate matter from 60 rural, urban, and kerbside sites across Europe. <i>Atmospheric Environment</i> , 2010, 44, 1308-1320.	1.9	654
11	Exposure Assessment for Estimation of the Global Burden of Disease Attributable to Outdoor Air Pollution. <i>Environmental Science & Technology</i> , 2012, 46, 652-660.	4.6	606
12	The global impact of ozone on agricultural crop yields under current and future air quality legislation. <i>Atmospheric Environment</i> , 2009, 43, 604-618.	1.9	563
13	A European aerosol phenomenologyâ€”1: physical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. <i>Atmospheric Environment</i> , 2004, 38, 2561-2577.	1.9	494
14	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. <i>Lancet, The</i> , 2017, 390, 231-266.	6.3	480
15	Health co-benefits from air pollution and mitigation costs of the Paris Agreement: a modelling study. <i>Lancet Planetary Health, The</i> , 2018, 2, e126-e133.	5.1	443
16	Multimodel estimates of intercontinental sourceâ€“receptor relationships for ozone pollution. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	430
17	Formation and cycling of aerosols in the global troposphere. <i>Atmospheric Environment</i> , 2000, 34, 4215-4240.	1.9	386
18	Household Cooking with Solid Fuels Contributes to Ambient PM _{2.5} Air Pollution and the Burden of Disease. <i>Environmental Health Perspectives</i> , 2014, 122, 1314-1320.	2.8	381

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19	Global Air Quality and Health Co-benefits of Mitigating Near-Term Climate Change through Methane and Black Carbon Emission Controls. <i>Environmental Health Perspectives</i> , 2012, 120, 831-839.	2.8	340
20	The Global Atmospheric Environment for the Next Generation. <i>Environmental Science & Technology</i> , 2006, 40, 3586-3594.	4.6	338
21	Future air pollution in the Shared Socio-economic Pathways. <i>Global Environmental Change</i> , 2017, 42, 346-358.	3.6	277
22	Forty years of improvements in European air quality: regional policy-industry interactions with global impacts. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3825-3841.	1.9	255
23	Inorganic bromine in the marine boundary layer: a critical review. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1301-1336.	1.9	243
24	Abating ammonia is more cost-effective than nitrogen oxides for mitigating PM _{2.5} air pollution. <i>Science</i> , 2021, 374, 758-762.	6.0	191
25	Source apportionment of urban fine and ultra-fine particle number concentration in a Western Mediterranean city. <i>Atmospheric Environment</i> , 2009, 43, 4407-4415.	1.9	189
26	Characterisation of TSP and PM _{2.5} at Izaña and Sta. Cruz de Tenerife (Canary Islands, Spain) during a Saharan Dust Episode (July 2002). <i>Atmospheric Environment</i> , 2005, 39, 4715-4728.	1.9	187
27	Ozone effects on crops and consideration in crop models. <i>European Journal of Agronomy</i> , 2018, 100, 19-34.	1.9	170
28	Ozone pollution will compromise efforts to increase global wheat production. <i>Global Change Biology</i> , 2018, 24, 3560-3574.	4.2	163
29	Air quality co-benefits for human health and agriculture counterbalance costs to meet Paris Agreement pledges. <i>Nature Communications</i> , 2018, 9, 4939.	5.8	163
30	Climate, health, agricultural and economic impacts of tighter vehicle-emission standards. <i>Nature Climate Change</i> , 2011, 1, 59-66.	8.1	153
31	Hygroscopic properties of aerosol formed by oxidation of limonene, α -pinene, and β -pinene. <i>Journal of Geophysical Research</i> , 1999, 104, 3569-3579.	3.3	151
32	Size-segregated aerosol mass closure and chemical composition in Monte Cimone (I) during MINATROC. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 889-902.	1.9	139
33	A study on the relationship between mass concentrations, chemistry and number size distribution of urban fine aerosols in Milan, Barcelona and London. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2217-2232.	1.9	138
34	Aerosol-ozone correlations during dust transport episodes. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 1201-1215.	1.9	123
35	Data Integration Model for Air Quality: A Hierarchical Approach to the Global Estimation of Exposures to Ambient Air Pollution. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2018, 67, 231-253.	0.5	112
36	Observations of aerosols in the free troposphere and marine boundary layer of the subtropical Northeast Atlantic: Discussion of processes determining their size distribution. <i>Journal of Geophysical Research</i> , 1997, 102, 21315-21328.	3.3	106

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37	Observations and model calculations of trace gas scavenging in a dense Saharan dust plume during MINATROC. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1787-1803.	1.9	103
38	Variations of urban aerosols in the western Mediterranean. <i>Atmospheric Environment</i> , 2008, 42, 9052-9062.	1.9	102
39	Urban and rural aerosol characterization of summer smog events during the PIPAPO field campaign in Milan, Italy. <i>Journal of Geophysical Research</i> , 2002, 107, LOP 6-1.	3.3	99
40	Coal-exit health and environmental damage reductions outweigh economic impacts. <i>Nature Climate Change</i> , 2020, 10, 308-312.	8.1	94
41	Simulations of condensation and cloud condensation nuclei from biogenic SO ₂ in the remote marine boundary layer. <i>Journal of Geophysical Research</i> , 1992, 97, 12901-12912.	3.3	92
42	Regionalized life cycle impact assessment of air pollution on the global scale: Damage to human health and vegetation. <i>Atmospheric Environment</i> , 2016, 134, 129-137.	1.9	89
43	LC-IMPACT: A regionalized life cycle damage assessment method. <i>Journal of Industrial Ecology</i> , 2020, 24, 1201-1219.	2.8	80
44	Evidence for anthropogenic impact on number concentration and sulfate content of cloud-processed aerosol particles over the North Atlantic. <i>Journal of Geophysical Research</i> , 1995, 100, 21057.	3.3	79
45	TM5-FASST: a global atmospheric source-receptor model for rapid impact analysis of emission changes on air quality and short-lived climate pollutants. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16173-16211.	1.9	79
46	Limited potential of crop management for mitigating surface ozone impacts on global food supply. <i>Atmospheric Environment</i> , 2011, 45, 2569-2576.	1.9	75
47	Nucleation and growth of new particles in the rural atmosphere of Northern Italy—relationship to air quality monitoring. <i>Atmospheric Environment</i> , 2005, 39, 6734-6746.	1.9	72
48	A multi-model assessment of the co-benefits of climate mitigation for global air quality. <i>Environmental Research Letters</i> , 2016, 11, 124013.	2.2	72
49	Ternary nucleation of methane sulphonic acid, sulphuric acid and water vapour. <i>Journal of Aerosol Science</i> , 1993, 24, 1-17.	1.8	71
50	Determination of the Condensation Accommodation Coefficient of Sulfuric Acid on Water-Sulfuric Acid Aerosol. <i>Aerosol Science and Technology</i> , 1991, 15, 93-106.	1.5	69
51	Modelling formation and growth of H ₂ SO ₄ -H ₂ O aerosols: Uncertainty analysis and experimental evaluation. <i>Journal of Aerosol Science</i> , 1992, 23, 759-771.	1.8	68
52	Survey of Ambient Air Pollution Health Risk Assessment Tools. <i>Risk Analysis</i> , 2016, 36, 1718-1736.	1.5	66
53	Physical aerosol properties and their relation to air mass origin at Monte Cimone (Italy) during the first MINATROC campaign. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 2203-2226.	1.9	61
54	Environmental Modeling and Methods for Estimation of the Global Health Impacts of Air Pollution. <i>Environmental Modeling and Assessment</i> , 2012, 17, 613-622.	1.2	61

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55	Harmful Algal Blooms in Chinese Coastal Waters Will Persist Due to Perturbed Nutrient Ratios. <i>Environmental Science and Technology Letters</i> , 2021, 8, 276-284.	3.9	59
56	Satellite-based Estimates of Ambient Air Pollution and Global Variations in Childhood Asthma Prevalence. <i>Environmental Health Perspectives</i> , 2012, 120, 1333-1339.	2.8	57
57	Contribution and uncertainty of sectorial and regional emissions to regional and global PM _{2.5} ; health impacts. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5165-5186.	1.9	56
58	Aerosol studies during the ESCOMPTE experiment: an overview. <i>Atmospheric Research</i> , 2005, 74, 547-563.	1.8	53
59	Submicron aerosol mass balance at urban and semirural sites in the Milan area (Italy). <i>Journal of Geophysical Research</i> , 2002, 107, LOP 11-1.	3.3	50
60	Health co-benefits and mitigation costs as per the Paris Agreement under different technological pathways for energy supply. <i>Environment International</i> , 2020, 136, 105513.	4.8	46
61	The role of ion-induced aerosol formation in the lower atmosphere. <i>Journal of Aerosol Science</i> , 1986, 17, 466-470.	1.8	45
62	Pronounced decrease of ambient particle number emissions from diesel traffic in Denmark after reduction of the sulphur content in diesel fuel. <i>Atmospheric Environment</i> , 2001, 35, 3549-3552.	1.9	43
63	Lidar and in situ observations of continental and Saharan aerosol: closure analysis of particles optical and physical properties. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 2161-2172.	1.9	40
64	Peroxynitrate formation during the night-time oxidation of dimethylsulfide: Its role as a reservoir species for aerosol formation. <i>Journal of Atmospheric Chemistry</i> , 1994, 18, 211-237.	1.4	37
65	Quantifying air quality co-benefits of climate policy across sectors and regions. <i>Climatic Change</i> , 2020, 163, 1501-1517.	1.7	36
66	Molecule and aerosol particle wall losses in SMOG chambers made of glass. <i>Journal of Aerosol Science</i> , 1989, 20, 113-122.	1.8	34
67	Daily patterns of the multi-modal structure of the particle number size distribution in Milan, Italy. <i>Atmospheric Environment</i> , 2011, 45, 2434-2442.	1.9	34
68	Processes determining the relationship between aerosol number and non-sea-salt sulfate mass concentrations in the clean and perturbed marine boundary layer. <i>Journal of Geophysical Research</i> , 1999, 104, 8027-8038.	3.3	33
69	Spatially Explicit Inventory of Sources of Nitrogen Inputs to the Yellow Sea, East China Sea, and South China Sea for the Period 1970-2010. <i>Earth's Future</i> , 2020, 8, e2020EF001516.	2.4	32
70	Instrument Characterization and First Application of the Single Particle Analysis and Sizing System (SPASS) for Atmospheric Aerosols. <i>Aerosol Science and Technology</i> , 2005, 39, 377-393.	1.5	30
71	Future impacts of ozone driven damages on agricultural systems. <i>Atmospheric Environment</i> , 2020, 231, 117538.	1.9	30
72	Energy Pathways for Sustainable Development. , 0, , 1205-1306.		29

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73	In situ airborne measurements of aerosol optical properties during photochemical pollution events. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	28
74	Interaction of mineral dust with gas phase nitric acid and sulfur dioxide during the MINATROC II field campaign: First estimate of the uptake coefficient Γ_{HNO_3} from atmospheric data. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	28
75	Evaluation and uncertainty estimation of the impact of air quality modelling on crop yields and premature deaths using a multi-model ensemble. <i>Science of the Total Environment</i> , 2018, 633, 1437-1452.	3.9	26
76	Possible evidence for a connection between methyl iodide emissions and Saharan dust. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	23
77	Co-benefits of black carbon mitigation for climate and air quality. <i>Climatic Change</i> , 2020, 163, 1519-1538.	1.7	22
78	Influence of Turbulence on the Deposition Rate Constant of the Unattached Radon Decay Products. <i>Aerosol Science and Technology</i> , 1991, 14, 257-265.	1.5	21
79	Future Global Air Quality Indices under Different Socioeconomic and Climate Assumptions. <i>Sustainability</i> , 2018, 10, 3645.	1.6	17
80	Lower air pollution during COVID-19 lock-down: improving models and methods estimating ozone impacts on crops. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20200188.	1.6	17
81	Validation of very high cloud droplet number concentrations in air masses transported thousands of kilometres over the ocean. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 801-814.	0.8	16
82	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. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 439-451.	0.8	16
83	Impacts of changes in North Atlantic atmospheric circulation on particulate matter and human health in Europe. <i>Geophysical Research Letters</i> , 2013, 40, 4074-4080.	1.5	16
84	Anthropogenic influences on the chemical and physical properties of aerosols in the Atlantic subtropical region during July 1994 and July 1995. <i>Journal of Geophysical Research</i> , 1999, 104, 14309-14319.	3.3	15
85	Incentives for small clubs of Arctic countries to limit black carbon and methane emissions. <i>Nature Climate Change</i> , 2018, 8, 85-90.	8.1	15
86	Effects of black carbon mitigation on Arctic climate. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5527-5546.	1.9	15
87	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. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 52, 439.	0.8	15
88	Spatial Patterns of Crop Yield Change by Emitted Pollutant. <i>Earth's Future</i> , 2019, 7, 101-112.	2.4	13
89	Using FÅ¶hn conditions to characterize urban and regional sources of particles. <i>Atmospheric Research</i> , 2008, 90, 159-169.	1.8	12
90	Comment to the paper "Assessing nitrogen dioxide (NO ₂) levels as a contributing factor to coronavirus (COVID-19) fatality" by Ogen, 2020. <i>Science of the Total Environment</i> , 2020, 738, 139853.	3.9	11

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91	Comment on "The relationship between DMS flux and CCN concentration in remote marine regions" by S. N. Pandis, L. M. Russell, and J. H. Seinfeld. <i>Journal of Geophysical Research</i> , 1995, 100, 14355.	3.3	10
92	Coagulation enhancement of H ₂ O-H ₂ SO ₄ aerosols: experiments and model calculations in the transition regime. <i>Journal of Aerosol Science</i> , 1990, 21, S237-S240.	1.8	6
93	Photolytic aerosol formation in SO ₂ -HNO ₂ -H ₂ O-AIR mixtures, with and without NH ₃ . <i>Journal of Aerosol Science</i> , 1997, 28, S719-S720.	1.8	5
94	Integrate health into decision-making to foster climate action. <i>Environmental Research Letters</i> , 2021, 16, 041005.	2.2	5
95	Quantifying the reductions in mortality from air-pollution by cancelling new coal power plants. <i>Energy and Climate Change</i> , 2021, 2, 100023.	2.2	5
96	O2.O.05 Nucleation studies of H ₂ SO ₄ -particles in a vertical laminar flow reactor: Experimental results and comparison with a numerical model. <i>Journal of Aerosol Science</i> , 1994, 25, 11-12.	1.8	4
97	Chapter 18 Formation and cycling of aerosols in the global troposphere. <i>Developments in Environmental Science</i> , 2002, , 519-563.	0.5	4
98	Deposition of Aerosols and Unattached Radon Daughters in Different Chambers; Theory and Experiment. <i>Radiation Protection Dosimetry</i> , 1988, 24, 217-220.	0.4	4
99	Ultrafine number size distribution measurements and chemical characterisation of the aerosol over the atlantic ocean between 40°N and 40°S. , 1996, , 439-442.		3
100	Deposition of gases and aerosols in smogchambers made of glass. <i>Journal of Aerosol Science</i> , 1987, 18, 659-661.	1.8	2
101	35 P 06 A new laminar flow reactor for gas/particle interaction studies: first results. <i>Journal of Aerosol Science</i> , 1993, 24, S391-S392.	1.8	2
102	Nonlinear impacts of future anthropogenic aerosol emissions on Arctic warming. <i>Environmental Research Letters</i> , 2019, 14, 034009.	2.2	2
103	Intercomparison of Methods for Investigating the Physical Characteristics of Radon Decay Products in the Indoor Environment. <i>Radiation Protection Dosimetry</i> , 1992, 45, 41-46.	0.4	2
104	rfasst: An R tool to estimate air pollution impacts on health and agriculture. <i>Journal of Open Source Software</i> , 2022, 7, 3820.	2.0	2
105	Modelling and observations of aerosol properties in the clean and polluted marine boundary layer and free troposphere. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	1
106	35 P 15 Physico-chemical aerosol measurements over the North-Atlantic. <i>Journal of Aerosol Science</i> , 1993, 24, S409-S410.	1.8	0
107	Experimental artifacts of size distributions of H ₂ O-H ₂ SO ₄ aerosol particles formed in a photochemical vertical laminar flow reactor due to its design. <i>Journal of Aerosol Science</i> , 1997, 28, S341-S342.	1.8	0
108	Processes relating aerosol number, aerosol volume and non-seasalt sulfate concentrations in the clean and polluted marine boundary layer. <i>Journal of Aerosol Science</i> , 1998, 29, S1147-S1148.	1.8	0

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109	Primary aerosol characterization during urban morning rush hours. <i>Journal of Aerosol Science</i> , 2000, 31, 311-312.	1.8	0
110	Determination of the sticking probability of H ₂ SO ₄ ON H ₂ SO ₄ -H ₂ O aerosols. <i>Lecture Notes in Physics</i> , 1988, , 23-26.	0.3	0
111	A boxmodel development to study the relationships between the photo-oxidants and the particles formation in the troposphere. <i>Annali Di Chimica</i> , 2003, 93, 447-56.	0.6	0