

Frank Dentener

List of Publications by Year in descending order

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69
papers

31,511
citations

38742

50
h-index

91884

69
g-index

107
all docs

107
docs citations

107
times ranked

44809
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, 1990–2010: a systematic analysis for the Global Burden of Disease Study 2010. <i>Lancet</i> , The, 2012, 380, 2224-2260.	13.7	9,397
2	Global Biodiversity: Indicators of Recent Declines. <i>Science</i> , 2010, 328, 1164-1168.	12.6	3,642
3	Global assessment of nitrogen deposition effects on terrestrial plant diversity: a synthesis. <i>Ecological Applications</i> , 2010, 20, 30-59.	3.8	2,063
4	The global nitrogen cycle in the twenty-first century. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130164.	4.0	1,114
5	Impacts of Atmospheric Anthropogenic Nitrogen on the Open Ocean. <i>Science</i> , 2008, 320, 893-897.	12.6	964
6	Emissions of primary aerosol and precursor gases in the years 2000 and 1750 prescribed data-sets for AeroCom. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4321-4344.	4.9	912
7	Ambient Air Pollution Exposure Estimation for the Global Burden of Disease 2013. <i>Environmental Science & Technology</i> , 2016, 50, 79-88.	10.0	886
8	Nitrogen and sulfur deposition on regional and global scales: A multimodel evaluation. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	4.9	846
9	Global dust model intercomparison in AeroCom phase I. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7781-7816.	4.9	839
10	Atmospheric composition change – global and regional air quality. <i>Atmospheric Environment</i> , 2009, 43, 5268-5350.	4.1	714
11	A global assessment of precipitation chemistry and deposition of sulfur, nitrogen, sea salt, base cations, organic acids, acidity and pH, and phosphorus. <i>Atmospheric Environment</i> , 2014, 93, 3-100.	4.1	650
12	HTAP_v2.2: a mosaic of regional and global emission grid maps for 2008 and 2010 to study hemispheric transport of air pollution. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11411-11432.	4.9	647
13	Global nitrogen deposition and carbon sinks. <i>Nature Geoscience</i> , 2008, 1, 430-437.	12.9	629
14	Exposure Assessment for Estimation of the Global Burden of Disease Attributable to Outdoor Air Pollution. <i>Environmental Science & Technology</i> , 2012, 46, 652-660.	10.0	606
15	The two-way nested global chemistry-transport zoom model TM5: algorithm and applications. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 417-432.	4.9	490
16	Gridded emissions of air pollutants for the period 1970–2012 within EDGAR v4.3.2. <i>Earth System Science Data</i> , 2018, 10, 1987-2013.	9.9	449
17	Wheat yield loss attributable to heat waves, drought and water excess at the global, national and subnational scales. <i>Environmental Research Letters</i> , 2017, 12, 064008.	5.2	420
18	A multi-model assessment of pollution transport to the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5353-5372.	4.9	419

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19	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.	6.0	381
20	EDGAR v4.3.2 Global Atlas of the three major greenhouse gas emissions for the period 1970–2012. <i>Earth System Science Data</i> , 2019, 11, 959-1002.	9.9	345
21	The Global Atmospheric Environment for the Next Generation. <i>Environmental Science & Technology</i> , 2006, 40, 3586-3594.	10.0	338
22	Multi-model mean nitrogen and sulfur deposition from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): evaluation of historical and projected future changes. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7997-8018.	4.9	279
23	Future air pollution in the Shared Socio-economic Pathways. <i>Global Environmental Change</i> , 2017, 42, 346-358.	7.8	277
24	Variations in the predicted spatial distribution of atmospheric nitrogen deposition and their impact on carbon uptake by terrestrial ecosystems. <i>Journal of Geophysical Research</i> , 1997, 102, 15849-15866.	3.3	264
25	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.	4.9	255
26	The global chemistry transport model TM5: description and evaluation of the tropospheric chemistry version 3.0. <i>Geoscientific Model Development</i> , 2010, 3, 445-473.	3.6	251
27	The Global Distribution of Acidifying Wet Deposition. <i>Environmental Science & Technology</i> , 2002, 36, 4382-4388.	10.0	248
28	The impact of air pollutant and methane emission controls on tropospheric ozone and radiative forcing: CTM calculations for the period 1990-2030. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1731-1755.	4.9	243
29	The effect of harmonized emissions on aerosol properties in global models – an AeroCom experiment. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4489-4501.	4.9	228
30	Atmospheric Transport and Deposition of Mineral Dust to the Ocean: Implications for Research Needs. <i>Environmental Science & Technology</i> , 2012, 46, 10390-10404.	10.0	187
31	Ozone pollution will compromise efforts to increase global wheat production. <i>Global Change Biology</i> , 2018, 24, 3560-3574.	9.5	163
32	A reevaluation of the magnitude and impacts of anthropogenic atmospheric nitrogen inputs on the ocean. <i>Global Biogeochemical Cycles</i> , 2017, 31, 289-305.	4.9	146
33	The Exceptional 2018 European Water Seesaw Calls for Action on Adaptation. <i>Earth's Future</i> , 2019, 7, 652-663.	6.3	126
34	Reconciling global-model estimates and country reporting of anthropogenic forest CO ₂ sinks. <i>Nature Climate Change</i> , 2018, 8, 914-920.	18.8	101
35	Better air for better health: Forging synergies in policies for energy access, climate change and air pollution. <i>Global Environmental Change</i> , 2013, 23, 1122-1130.	7.8	99
36	Trend analysis from 1970 to 2008 and model evaluation of EDGARv4 global gridded anthropogenic mercury emissions. <i>Science of the Total Environment</i> , 2014, 494-495, 337-350.	8.0	94

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37	N deposition as a threat to the World's protected areas under the Convention on Biological Diversity. <i>Environmental Pollution</i> , 2011, 159, 2280-2288.	7.5	83
38	Spatial variation of modelled total, dry and wet nitrogen deposition to forests at global scale. <i>Environmental Pollution</i> , 2018, 243, 1287-1301.	7.5	83
39	Technical note: Coordination and harmonization of the multi-scale, multi-model activities HTAP2, AQMEII3, and MICS-Asia3: simulations, emission inventories, boundary conditions, and model output formats. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1543-1555.	4.9	81
40	Evaluation of the aerosol vertical distribution in global aerosol models through comparison against CALIOP measurements: AeroCom phase II results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7254-7283.	3.3	80
41	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.	4.9	79
42	Effects of business-as-usual anthropogenic emissions on air quality. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6915-6937.	4.9	76
43	When Will Current Climate Extremes Affecting Maize Production Become the Norm?. <i>Earth's Future</i> , 2019, 7, 113-122.	6.3	74
44	A multi-model assessment of the co-benefits of climate mitigation for global air quality. <i>Environmental Research Letters</i> , 2016, 11, 124013.	5.2	72
45	Observed Northward Migration of Agro-Climatic Zones in Europe Will Further Accelerate Under Climate Change. <i>Earth's Future</i> , 2019, 7, 1088-1101.	6.3	71
46	Wildfire air pollution hazard during the 21st Century. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9223-9236.	4.9	66
47	Impacts of intercontinental transport of anthropogenic fine particulate matter on human mortality. <i>Air Quality, Atmosphere and Health</i> , 2014, 7, 369-379.	3.3	64
48	Environmental Modeling and Methods for Estimation of the Global Health Impacts of Air Pollution. <i>Environmental Modeling and Assessment</i> , 2012, 17, 613-622.	2.2	61
49	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.	8.7	59
50	Quantifying the impact of anthropogenic nitrogen deposition on oceanic nitrous oxide. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	57
51	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.	4.9	56
52	HTAP2 multi-model estimates of premature human mortality due to intercontinental transport of air pollution and emission sectors. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10497-10520.	4.9	54
53	Evaluating EDGARv4.tox2 speciated mercury emissions ex-post scenarios and their impacts on modelled global and regional wet deposition patterns. <i>Atmospheric Environment</i> , 2018, 184, 56-68.	4.1	50
54	Multi-model study of HTAP-All on sulfur and nitrogen deposition. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6847-6866.	4.9	49

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55	The impact of future emission policies on tropospheric ozone using a parameterised approach. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8953-8978.	4.9	47
56	Exploring synergies between climate and air quality policies using long-term global and regional emission scenarios. <i>Atmospheric Environment</i> , 2016, 140, 577-591.	4.1	45
57	Global and regional radiative forcing from 20% reductions in BC, OC and SO ₄ an HTAP2 multi-model study. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13579-13599.	4.9	42
58	Estimating resilience of crop production systems: From theory to practice. <i>Science of the Total Environment</i> , 2020, 735, 139378.	8.0	42
59	Atmospheric deposition of nutrients and excess N formation in the North Atlantic. <i>Biogeosciences</i> , 2010, 7, 777-793.	3.3	40
60	The effects of intercontinental emission sources on European air pollution levels. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13655-13672.	4.9	34
61	Global and regional estimation of net anthropogenic nitrogen inputs (NANI). <i>Geoderma</i> , 2020, 361, 114066.	5.1	32
62	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.	6.3	32
63	Observation- and model-based estimates of particulate dry nitrogen deposition to the oceans. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8189-8210.	4.9	26
64	Understanding and reproducing regional diversity of climate impacts on wheat yields: current approaches, challenges and data driven limitations. <i>Environmental Research Letters</i> , 2018, 13, 021001.	5.2	21
65	Source contributions to sulfur and nitrogen deposition – an HTAP II multi-model study on hemispheric transport. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12223-12240.	4.9	21
66	The role of aerosol in altering North Atlantic atmospheric circulation in winter and its impact on air quality. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1725-1743.	4.9	17
67	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.	3.4	17
68	Air quality impacts of European wildfire emissions in a changing climate. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5685-5703.	4.9	15
69	Improving Estimates of Sulfur, Nitrogen, and Ozone Total Deposition through Multi-Model and Measurement-Model Fusion Approaches. <i>Environmental Science & Technology</i> , 2022, 56, 2134-2142.	10.0	12