Fabien Paulot

List of Publications by Year
in descending order

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55 papers	6,243 citations	109321 35 h-index	149698 56 g-index
87 all docs	87 docs citations	87 times ranked	6048 citing authors

#	Article	IF	Citations
1	Unexpected Epoxide Formation in the Gas-Phase Photooxidation of Isoprene. Science, 2009, 325, 730-733.	12.6	837
2	Isoprene photooxidation: new insights into the production of acids and organic nitrates. Atmospheric Chemistry and Physics, 2009, 9, 1479-1501.	4.9	450
3	Ammonia emissions in the United States, European Union, and China derived by highâ€resolution inversion of ammonium wet deposition data: Interpretation with a new agricultural emissions inventory (MASAGE_NH3). Journal of Geophysical Research D: Atmospheres, 2014, 119, 4343-4364.	3.3	333
4	Peroxy radical isomerization in the oxidation of isoprene. Physical Chemistry Chemical Physics, 2011, 13, 13607.	2.8	302
5	The GFDL Earth System Model Version 4.1 (GFDLâ€ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002015.	3.8	277
6	Atmospheric peroxyacetyl nitrate (PAN): a global budget and source attribution. Atmospheric Chemistry and Physics, 2014, 14, 2679-2698.	4.9	259
7	Structure and Performance of GFDL's CM4.0 Climate Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 3691-3727.	3.8	242
8	Agricultural ammonia emissions in China: reconciling bottom-up and top-down estimates. Atmospheric Chemistry and Physics, 2018, 18, 339-355.	4.9	220
9	Ozone and organic nitrates over the eastern United States: Sensitivity to isoprene chemistry. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,256.	3.3	213
10	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. Atmospheric Chemistry and Physics, 2012, 12, 8009-8020.	4.9	211
11	Rapid deposition of oxidized biogenic compounds to a temperate forest. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E392-401.	7.1	192
12	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. Atmospheric Chemistry and Physics, 2015, 15, 11807-11833.	4.9	185
13	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 2. Model Description, Sensitivity Studies, and Tuning Strategies. Journal of Advances in Modeling Earth Systems, 2018, 10, 735-769.	3.8	185
14	Hidden Cost of U.S. Agricultural Exports: Particulate Matter from Ammonia Emissions. Environmental Science & Technology, 2014, 48, 903-908.	10.0	184
15	Isoprene emissions in Africa inferred from OMI observations of formaldehyde columns. Atmospheric Chemistry and Physics, 2012, 12, 6219-6235.	4.9	166
16	Atmospheric Fate of Methacrolein. 1. Peroxy Radical Isomerization Following Addition of OH and O₂. Journal of Physical Chemistry A, 2012, 116, 5756-5762.	2.5	166
17	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 1. Simulation Characteristics With Prescribed SSTs. Journal of Advances in Modeling Earth Systems, 2018, 10, 691-734.	3.8	155
18	Impact of the isoprene photochemical cascade on tropical ozone. Atmospheric Chemistry and Physics, 2012, 12, 1307-1325.	4.9	111

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19	Understanding the impact of recent advances in isoprene photooxidation on simulations of regional air quality. Atmospheric Chemistry and Physics, 2013, 13, 8439-8455.	4.9	106
20	Global oceanic emission of ammonia: Constraints from seawater and atmospheric observations. Global Biogeochemical Cycles, 2015, 29, 1165-1178.	4.9	96
21	Vegetation feedbacks during drought exacerbate ozone air pollution extremes in Europe. Nature Climate Change, 2020, 10, 444-451.	18.8	96
22	Importance of biogenic precursors to the budget of organic nitrates: observations of multifunctional organic nitrates by CIMS and TD-LIF during BEARPEX 2009. Atmospheric Chemistry and Physics, 2012, 12, 5773-5785.	4.9	93
23	Sensitivity of nitrate aerosols to ammonia emissions and to nitrate chemistry: implications for present and future nitrate optical depth. Atmospheric Chemistry and Physics, 2016, 16, 1459-1477.	4.9	79
24	Sources and Processes Contributing to Nitrogen Deposition: An Adjoint Model Analysis Applied to Biodiversity Hotspots Worldwide. Environmental Science & Technology, 2013, 47, 3226-3233.	10.0	78
25	Ocean Biogeochemistry in GFDL's Earth System Model 4.1 and Its Response to Increasing Atmospheric CO₂. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002043.	3.8	70
26	Global evaluation of ammonia bidirectional exchange and livestock diurnal variation schemes. Atmospheric Chemistry and Physics, 2015, 15, 12823-12843.	4.9	68
27	Changes in the aerosol direct radiative forcing from 2001 to 2015: observational constraints and regional mechanisms. Atmospheric Chemistry and Physics, 2018, 18, 13265-13281.	4.9	57
28	Interannual variability in ozone removal by a temperate deciduous forest. Geophysical Research Letters, 2017, 44, 542-552.	4.0	56
29	Atmospheric nitrogen deposition to the northwestern Pacific: seasonal variation and source attribution. Atmospheric Chemistry and Physics, 2015, 15, 10905-10924.	4.9	51
30	The GFDL Global Atmospheric Chemistryâ€Climate Model AM4.1: Model Description and Simulation Characteristics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002032.	3.8	51
31	Exploring the relationship between surface PM_{2.5} and meteorology in Northern India. Atmospheric Chemistry and Physics, 2018, 18, 10157-10175.	4.9	50
32	Observational constraints on glyoxal production from isoprene oxidation and its contribution to organic aerosol over the Southeast United States. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9849-9861.	3.3	48
33	Air quality impacts from the electrification of light-duty passenger vehicles in the United States. Atmospheric Environment, 2019, 208, 95-102.	4.1	48
34	Can a â€œstate of the artâ€•chemistry transport model simulate Amazonian tropospheric chemistry?. Journal of Geophysical Research, 2011, 116, .	3.3	47
35	Contrasting seasonal responses of sulfate aerosols to declining SO₂ emissions in the Eastern U.S.: Implications for the efficacy of SO₂ emission controls. Geophysical Research Letters, 2017, 44, 455-464.	4.0	40
36	Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. Atmospheric Chemistry and Physics, 2021, 21, 1105-1126.	4.9	39

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37	Influence of Dynamic Ozone Dry Deposition on Ozone Pollution. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032398.	3.3	34
38	Sensitivity of Ozone Dry Deposition to Ecosystemâ€Atmosphere Interactions: A Critical Appraisal of Observations and Simulations. Global Biogeochemical Cycles, 2019, 33, 1264-1288.	4.9	33
39	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. Communications Earth & Environment, 2021, 2, .	6.8	32
40	Gasâ€aerosol partitioning of ammonia in biomass burning plumes: Implications for the interpretation of spaceborne observations of ammonia and the radiative forcing of ammonium nitrate. Geophysical Research Letters, 2017, 44, 8084-8093.	4.0	30
41	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. Atmospheric Chemistry and Physics, 2018, 18, 2341-2361.	4.9	30
42	Representing sub-grid scale variations in nitrogen deposition associated with land use in a global Earth system model: implications for present and future nitrogen deposition fluxes over North America. Atmospheric Chemistry and Physics, 2018, 18, 17963-17978.	4.9	25
43	Sources of nitrogen deposition in Federal Class I areas in the US. Atmospheric Chemistry and Physics, 2016, 16, 525-540.	4.9	21
44	Assessing the Influence of COVIDâ€19 on the Shortwave Radiative Fluxes Over the East Asian Marginal Seas. Geophysical Research Letters, 2021, 48, e2020GL091699.	4.0	20
45	Global modeling of hydrogen using GFDL-AM4.1: Sensitivity of soil removal and radiative forcing. International Journal of Hydrogen Energy, 2021, 46, 13446-13460.	7.1	20
46	Monthly Patterns of Ammonia Over the Contiguous United States at 2â€km Resolution. Geophysical Research Letters, 2021, 48, e2020GL090579.	4.0	16
47	Revisiting the Impact of Sea Salt on Climate Sensitivity. Geophysical Research Letters, 2020, 47, e2019GL085601.	4.0	12
48	Improving Estimates of Sulfur, Nitrogen, and Ozone Total Deposition through Multi-Model and Measurement-Model Fusion Approaches. Environmental Science & Technology, 2022, 56, 2134-2142.	10.0	12
49	Sensitivity of Tropospheric Ozone Over the Southeast USA to Dry Deposition. Geophysical Research Letters, 2020, 47, e2020GL087158.	4.0	11
50	Stomatal conductance influences interannual variability and long-term changes in regional cumulative plant uptake of ozone. Environmental Research Letters, 2020, 15, 114059.	5.2	11
51	Attribution of Chemistry-Climate Model Initiative (CCMI) ozone radiative flux bias from satellites. Atmospheric Chemistry and Physics, 2020, 20, 281-301.	4.9	6
52	Ocean Ammonia Outgassing: Modulation by CO₂ and Anthropogenic Nitrogen Deposition. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002026.	3.8	5
53	Understanding Topâ€ofâ€Atmosphere Flux Bias in the AeroCom Phase III Models: A Clearâ€Sky Perspective. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002584.	3.8	4
54	Moisture fluctuations modulate abiotic and biotic limitations of H 2 soil uptake. Global Biogeochemical Cycles, 2021, 35, e2021GB006987.	4.9	4

#	Article	IF	Citations
55	Response to Comment on â€œUnexpected Epoxide Formation in the Gas-Phase Photooxidation of Isopreneâ€• Science, 2010, 327, 644-644.	12.6	1