

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	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
2	Assessing the Influence of COVID-19 on the Shortwave Radiative Fluxes Over the East Asian Marginal Seas. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091699.	4.0	20
3	Monthly Patterns of Ammonia Over the Contiguous United States at 2-km Resolution. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090579.	4.0	16
4	Global modeling of hydrogen using GFDL-AM4.1: Sensitivity of soil removal and radiative forcing. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 13446-13460.	7.1	20
5	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	32
6	Understanding Top-of-Atmosphere Flux Bias in the AeroCom Phase III Models: A Clear-Sky Perspective. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002584.	3.8	4
7	Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1105-1126.	4.9	39
8	Moisture fluctuations modulate abiotic and biotic limitations of H ₂ soil uptake. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006987.	4.9	4
9	Revisiting the Impact of Sea Salt on Climate Sensitivity. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085601.	4.0	12
10	The GFDL Global Atmospheric Chemistry-Climate Model AM4.1: Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002032.	3.8	51
11	Ocean Biogeochemistry in GFDL's Earth System Model 4.1 and Its Response to Increasing Atmospheric CO ₂ . <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002043.	3.8	70
12	The GFDL Earth System Model Version 4.1 (GFDL-ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002015.	3.8	277
13	Ocean Ammonia Outgassing: Modulation by CO ₂ and Anthropogenic Nitrogen Deposition. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002026.	3.8	5
14	Influence of Dynamic Ozone Dry Deposition on Ozone Pollution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032398.	3.3	34
15	Sensitivity of Tropospheric Ozone Over the Southeast USA to Dry Deposition. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087158.	4.0	11
16	Attribution of Chemistry-Climate Model Initiative (CCMI) ozone radiative flux bias from satellites. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 281-301.	4.9	6
17	Vegetation feedbacks during drought exacerbate ozone air pollution extremes in Europe. <i>Nature Climate Change</i> , 2020, 10, 444-451.	18.8	96
18	Stomatal conductance influences interannual variability and long-term changes in regional cumulative plant uptake of ozone. <i>Environmental Research Letters</i> , 2020, 15, 114059.	5.2	11

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19	Sensitivity of Ozone Dry Deposition to Ecosystem-Atmosphere Interactions: A Critical Appraisal of Observations and Simulations. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1264-1288.	4.9	33
20	Structure and Performance of GFDL's CM4.0 Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3691-3727.	3.8	242
21	Air quality impacts from the electrification of light-duty passenger vehicles in the United States. <i>Atmospheric Environment</i> , 2019, 208, 95-102.	4.1	48
22	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 2. Model Description, Sensitivity Studies, and Tuning Strategies. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 735-769.	3.8	185
23	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 1. Simulation Characteristics With Prescribed SSTs. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 691-734.	3.8	155
24	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2341-2361.	4.9	30
25	Agricultural ammonia emissions in China: reconciling bottom-up and top-down estimates. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 339-355.	4.9	220
26	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. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17963-17978.	4.9	25
27	Exploring the relationship between surface PM _{2.5} and meteorology in Northern India. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10157-10175.	4.9	50
28	Changes in the aerosol direct radiative forcing from 2001 to 2015: observational constraints and regional mechanisms. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13265-13281.	4.9	57
29	Interannual variability in ozone removal by a temperate deciduous forest. <i>Geophysical Research Letters</i> , 2017, 44, 542-552.	4.0	56
30	Gas-aerosol partitioning of ammonia in biomass burning plumes: Implications for the interpretation of spaceborne observations of ammonia and the radiative forcing of ammonium nitrate. <i>Geophysical Research Letters</i> , 2017, 44, 8084-8093.	4.0	30
31	Contrasting seasonal responses of sulfate aerosols to declining SO ₂ emissions in the Eastern U.S.: Implications for the efficacy of SO ₂ emission controls. <i>Geophysical Research Letters</i> , 2017, 44, 455-464.	4.0	40
32	Observational constraints on glyoxal production from isoprene oxidation and its contribution to organic aerosol over the Southeast United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9849-9861.	3.3	48
33	Sensitivity of nitrate aerosols to ammonia emissions and to nitrate chemistry: implications for present and future nitrate optical depth. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1459-1477.	4.9	79
34	Sources of nitrogen deposition in Federal Class I areas in the US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 525-540.	4.9	21
35	Global oceanic emission of ammonia: Constraints from seawater and atmospheric observations. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1165-1178.	4.9	96
36	Atmospheric nitrogen deposition to the northwestern Pacific: seasonal variation and source attribution. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10905-10924.	4.9	51

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37	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11807-11833.	4.9	185
38	Global evaluation of ammonia bidirectional exchange and livestock diurnal variation schemes. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12823-12843.	4.9	68
39	Rapid deposition of oxidized biogenic compounds to a temperate forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E392-401.	7.1	192
40	Hidden Cost of U.S. Agricultural Exports: Particulate Matter from Ammonia Emissions. <i>Environmental Science & Technology</i> , 2014, 48, 903-908.	10.0	184
41	Ammonia emissions in the United States, European Union, and China derived by high-resolution inversion of ammonium wet deposition data: Interpretation with a new agricultural emissions inventory (MASAGE_NH3). <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4343-4364.	3.3	333
42	Atmospheric peroxyacetyl nitrate (PAN): a global budget and source attribution. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2679-2698.	4.9	259
43	Sources and Processes Contributing to Nitrogen Deposition: An Adjoint Model Analysis Applied to Biodiversity Hotspots Worldwide. <i>Environmental Science & Technology</i> , 2013, 47, 3226-3233.	10.0	78
44	Understanding the impact of recent advances in isoprene photooxidation on simulations of regional air quality. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8439-8455.	4.9	106
45	Ozone and organic nitrates over the eastern United States: Sensitivity to isoprene chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,256.	3.3	213
46	Impact of the isoprene photochemical cascade on tropical ozone. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1307-1325.	4.9	111
47	Importance of biogenic precursors to the budget of organic nitrates: observations of multifunctional organic nitrates by CIMS and TD-LIF during BEARPEX 2009. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5773-5785.	4.9	93
48	Isoprene emissions in Africa inferred from OMI observations of formaldehyde columns. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6219-6235.	4.9	166
49	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8009-8020.	4.9	211
50	Atmospheric Fate of Methacrolein. 1. Peroxy Radical Isomerization Following Addition of OH and O ₂ . <i>Journal of Physical Chemistry A</i> , 2012, 116, 5756-5762.	2.5	166
51	Peroxy radical isomerization in the oxidation of isoprene. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13607.	2.8	302
52	Can a "state-of-the-art" chemistry transport model simulate Amazonian tropospheric chemistry?. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	47
53	Response to Comment on "Unexpected Epoxide Formation in the Gas-Phase Photooxidation of Isoprene". <i>Science</i> , 2010, 327, 644-644.	12.6	1
54	Unexpected Epoxide Formation in the Gas-Phase Photooxidation of Isoprene. <i>Science</i> , 2009, 325, 730-733.	12.6	837

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55	Isoprene photooxidation: new insights into the production of acids and organic nitrates. Atmospheric Chemistry and Physics, 2009, 9, 1479-1501.	4.9	450