

Simone Meinardi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

2,883

citations

32

h-index

53

g-index

65

ext. papers

3,315

ext. citations

6.6

avg, IF

4.29

L-index

#	Paper	IF	Citations
62	Description of the analysis of a wide range of volatile organic compounds in whole air samples collected during PEM-tropics A and B. <i>Analytical Chemistry</i> , 2001 , 73, 3723-31	7.8	273
61	Boreal forest fire emissions in fresh Canadian smoke plumes: C₁-C₁₀ volatile organic compounds (VOCs), CO₂, CO, NO₂, NO, HCN and CH₃CN. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6445-6463	6.8	178
60	NMHCs and halocarbons in Asian continental outflow during the Transport and Chemical Evolution over the Pacific (TRACE-P) Field Campaign: Comparison With PEM-West B. <i>Journal of Geophysical Research</i> , 2003 , 108,		154
59	Long-term decline of global atmospheric ethane concentrations and implications for methane. <i>Nature</i> , 2012 , 488, 490-4	50.4	138
58	Measurements of reactive trace gases and variable O₃ formation rates in some South Carolina biomass burning plumes. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1141-1165	6.8	135
57	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 6108-6129	4.4	116
56	Breath gas metabolites and bacterial metagenomes from cystic fibrosis airways indicate active pH neutral 2,3-butanedione fermentation. <i>ISME Journal</i> , 2014 , 8, 1247-58	11.9	92
55	Atmospheric emissions from the Deepwater Horizon spill constrain air-water partitioning, hydrocarbon fate, and leak rate. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	91
54	Influence of biomass burning during recent fluctuations in the slow growth of global tropospheric methane. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	88
53	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001882	7.1	78
52	Airborne measurements of organosulfates over the continental U.S. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2990-3005	4.4	77
51	Agricultural fires in the southeastern U.S. during SEAC4RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7383-7414	4.4	71
50	Impact of organic nitrates on urban ozone production. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4085-4094	6.6	66
49	Airborne tunable diode laser measurements of formaldehyde during TRACE-P: Distributions and box model comparisons. <i>Journal of Geophysical Research</i> , 2003 , 108,		61
48	Airborne measurement of inorganic ionic components of fine aerosol particles using the particle-into-liquid sampler coupled to ion chromatography technique during ACE-Asia and TRACE-P. <i>Journal of Geophysical Research</i> , 2003 , 108,		60
47	Large-scale latitudinal and vertical distributions of NMHCs and selected halocarbons in the troposphere over the Pacific Ocean during the March-April 1999 Pacific Exploratory Mission (PEM-Tropics B). <i>Journal of Geophysical Research</i> , 2001 , 106, 32627-32644		58
46	The future of airborne sulfur-containing particles in the absence of fossil fuel sulfur dioxide emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13514-9	11.5	57

45	Characterization of photochemical pollution at different elevations in mountainous areas in Hong Kong. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3881-3898	6.8	54
44	Tunable diode laser measurements of formaldehyde during the TOPSE 2000 study: Distributions, trends, and model comparisons. <i>Journal of Geophysical Research</i> , 2003 , 108,		53
43	Characterization of volatile organic compounds (VOCs) in Asian and north American pollution plumes during INTEX-B: identification of specific Chinese air mass tracers. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 5371-5388	6.8	51
42	Dimethyl disulfide (DMDS) and dimethyl sulfide (DMS) emissions from biomass burning in Australia. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	50
41	Carbonyl sulfide and carbon disulfide: Large-scale distributions over the western Pacific and emissions from Asia during TRACE-P. <i>Journal of Geophysical Research</i> , 2004 , 109,		48
40	Photochemical production and evolution of selected C ₂ -C ₅ alkyl nitrates in tropospheric air influenced by Asian outflow. <i>Journal of Geophysical Research</i> , 2003 , 108,		47
39	The seasonal evolution of NMHCs and light alkyl nitrates at middle to high northern latitudes during TOPSE. <i>Journal of Geophysical Research</i> , 2003 , 108,		46
38	Constraints on Aerosol Nitrate Photolysis as a Potential Source of HONO and NO. <i>Environmental Science & Technology</i> , 2018 , 52, 13738-13746	10.3	43
37	Emission estimates of selected volatile organic compounds from tropical savanna burning in northern Australia. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		42
36	Integrating Source Apportionment Tracers into a Bottom-up Inventory of Methane Emissions in the Barnett Shale Hydraulic Fracturing Region. <i>Environmental Science & Technology</i> , 2015 , 49, 8175-82	10.3	41
35	Exhaled breath and fecal volatile organic biomarkers of chronic kidney disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 2531-7	4	41
34	Source origins, modeled profiles, and apportionments of halogenated hydrocarbons in the greater Pearl River Delta region, southern China. <i>Journal of Geophysical Research</i> , 2009 , 114,		39
33	Long-term atmospheric measurements of C ₁ -C ₅ alkyl nitrates in the Pearl River Delta region of southeast China. <i>Atmospheric Environment</i> , 2006 , 40, 1619-1632	5.3	39
32	Long-term decrease in the global atmospheric burden of tetrachloroethene (C ₂ Cl ₄). <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	34
31	A dual-chamber method for quantifying the effects of atmospheric perturbations on secondary organic aerosol formation from biomass burning emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 6043-6058	4.4	32
30	A biomass burning source of C ₁ -C ₄ alkyl nitrates. <i>Geophysical Research Letters</i> , 2002 , 29, 21-1-21-4	4.9	31
29	Carbonyl sulfide (OCS): Large-scale distributions over North America during INTEX-NA and relationship to CO ₂ . <i>Journal of Geophysical Research</i> , 2008 , 113,		28
28	Emission patterns and spatiotemporal variations of halocarbons in the Pearl River Delta region, southern China. <i>Journal of Geophysical Research</i> , 2010 , 115,		27

27	Estimating Emissions of Toxic Hydrocarbons from Natural Gas Production Sites in the Barnett Shale Region of Northern Texas. <i>Environmental Science & Technology</i> , 2016 , 50, 10756-10764	10.3	27
26	Air quality in the Industrial Heartland of Alberta, Canada and potential impacts on human health. <i>Atmospheric Environment</i> , 2013 , 81, 702-709	5.3	25
25	Using stable isotopes of hydrogen to quantify biogenic and thermogenic atmospheric methane sources: A case study from the Colorado Front Range. <i>Geophysical Research Letters</i> , 2016 , 43, 11,462	4.9	23
24	Gas signatures from Escherichia coli and Escherichia coli-inoculated human whole blood. <i>Clinical and Translational Medicine</i> , 2013 , 2, 13	5.7	23
23	Emissions from village cookstoves in Haryana, India, and their potential impacts on air quality. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 15169-15182	6.8	23
22	Characterization, sources and reactivity of volatile organic compounds (VOCs) in Seoul and surrounding regions during KORUS-AQ. <i>Elementa</i> , 2020 , 8,	3.6	22
21	Observation-based modeling of ozone chemistry in the Seoul metropolitan area during the Korea-United States Air Quality Study (KORUS-AQ). <i>Elementa</i> , 2020 , 8,	3.6	19
20	HFC-152a and HFC-134a emission estimates and characterization of CFCs, CFC replacements, and other halogenated solvents measured during the 2008 ARCTAS campaign (CARB phase) over the South Coast Air Basin of California. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2655-2669	6.8	17
19	Methyl, Ethyl, and Propyl Nitrates: Global Distribution and Impacts on Reactive Nitrogen in Remote Marine Environments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 12,429	4.4	16
18	Characterization of carbon monoxide, methane and nonmethane hydrocarbons in emerging cities of Saudi Arabia and Pakistan and in Singapore. <i>Journal of Atmospheric Chemistry</i> , 2017 , 74, 87-113	3.2	15
17	Survey of whole air data from the second airborne Biomass Burning and Lightning Experiment using principal component analysis. <i>Journal of Geophysical Research</i> , 2003 , 108,		15
16	Evidence of mixing between polluted convective outflow and stratospheric air in the upper troposphere during DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 11,477-11,491	4.4	14
15	Ozone and alkyl nitrate formation from the Deepwater Horizon oil spill atmospheric emissions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		13
14	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14617-14647	6.8	13
13	Source Contributions to Carbon Monoxide Concentrations During KORUS-AQ Based on CAM-chem Model Applications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 2796-2822	4.4	12
12	Ocean Biogeochemistry Control on the Marine Emissions of Brominated Very Short-Lived Ozone-Depleting Substances: A Machine-Learning Approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 12319-12339	4.4	11
11	Ambient CFCs and HCFC-22 observed concurrently at 84 sites in the Pearl River Delta region during the 2008-2009 grid studies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7699-7717	4.4	11
10	Modeling C1-4 Alkyl Nitrate Photochemistry and Their Impacts on O3 Production in Urban and Suburban Environments of Hong Kong. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10,539-10,556	4.4	11

9	Emission estimates of HCFCs and HFCs in California from the 2010 CalNex study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2019-2030	4.4	9
8	THE NASA ATMOSPHERIC TOMOGRAPHY (ATom) MISSION: Imaging the Chemistry of the Global Atmosphere. <i>Bulletin of the American Meteorological Society</i> , 2021 , 1-53	6.1	6
7	Evidence for an Oceanic Source of Methyl Ethyl Ketone to the Atmosphere. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086045	4.9	5
6	Strong evidence for negligible methyl chloroform (CH ₃ CCl ₃) emissions from biomass burning. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	5
5	Metabolic and behavioral features of acute hyperpurinergia and the maternal immune activation mouse model of autism spectrum disorder. <i>PLoS ONE</i> , 2021 , 16, e0248771	3.7	5
4	Airborne measurements of cirrus-activated C ₂ Cl ₄ depletion in the upper troposphere with evidence against Cl reactions. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	3
3	Source and variability of formaldehyde (HCHO) at northern high latitudes: an integrated satellite, aircraft, and model study. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 7163-7178	6.8	1
2	Quantification of Aerosol Hydrofluoroalkane HFA-134a Elimination in the Exhaled Human Breath Following Inhaled Corticosteroids Administration. <i>Clinical and Translational Science</i> , 2015 , 8, 445-50	4.9	0
1	Long-term variations of C-C alkyl nitrates and their sources in Hong Kong. <i>Environmental Pollution</i> , 2021 , 270, 116285	9.3	0