

# M MÃ¼ller

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

3,336  
citations

182225

30  
h-index

182931

54  
g-index

75  
all docs

75  
docs citations

75  
times ranked

4873  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric Chemistry of <i>N</i> -Methylmethanimine (CH <sub>3</sub> NH-CH <sub>2</sub> ): A Theoretical and Experimental Study. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3247-3264.	1.1	6
2	The role of a suburban forest in controlling vertical trace gas and OH reactivity distributions – a case study for the Seoul metropolitan area. <i>Faraday Discussions</i> , 2021, 226, 537-550.	1.6	3
3	Introducing the extended volatility range proton-transfer-reaction mass spectrometer (EVR PTR-MS). <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1355-1363.	1.2	17
4	Factors controlling marine aerosol size distributions and their climate effects over the northwest Atlantic Ocean region. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1889-1916.	1.9	14
5	Validation of IASI Satellite Ammonia Observations at the Pixel Scale Using In Situ Vertical Profiles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033475.	1.2	28
6	Ammonia Dry Deposition in an Alpine Ecosystem Traced to Agricultural Emission Hotspots. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7776-7785.	4.6	13
7	Atmospheric Chemistry of 2-Amino-2-methyl-1-propanol: A Theoretical and Experimental Study of the OH-Initiated Degradation under Simulated Atmospheric Conditions. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7502-7519.	1.1	5
8	A novel method for producing NH <sub>4</sub> <sup>+</sup> reagent ions in the hollow cathode glow discharge ion source of PTR-MS instruments. <i>International Journal of Mass Spectrometry</i> , 2020, 447, 116254.	0.7	25
9	On the sources and sinks of atmospheric VOCs: an integrated analysis of recent aircraft campaigns over North America. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9097-9123.	1.9	32
10	Bulk Organic Aerosol Analysis by Proton-Transfer-Reaction Mass Spectrometry: An Improved Methodology for the Determination of Total Organic Mass, O:C and H:C Elemental Ratios, and the Average Molecular Formula. <i>Analytical Chemistry</i> , 2019, 91, 12619-12624.	3.2	11
11	OH chemistry of non-methane organic gases (NMOGs) emitted from laboratory and ambient biomass burning smoke: evaluating the influence of furans and oxygenated aromatics on ozone and secondary NMOG formation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14875-14899.	1.9	92
12	Airborne measurements of particulate organic matter by proton-transfer-reaction mass spectrometry (PTR-MS): a pilot study. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5947-5958.	1.2	9
13	Substantial Seasonal Contribution of Observed Biogenic Sulfate Particles to Cloud Condensation Nuclei. <i>Scientific Reports</i> , 2018, 8, 3235.	1.6	103
14	Theoretical and Experimental Study on the Reaction of <i>tert</i> -Butylamine with OH Radicals in the Atmosphere. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4470-4480.	1.1	13
15	Gas-to-particle partitioning of major biogenic oxidation products: a study on freshly formed and aged biogenic SOA. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12969-12989.	1.9	18
16	Comparison of three aerosol chemical characterization techniques utilizing PTR-ToF-MS: a study on freshly formed and aged biogenic SOA. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1481-1500.	1.2	17
17	Eddy-covariance flux measurements in an Italian deciduous forest using PTR-ToF-MS, PTR-QMS and FIS. <i>International Journal of Environmental Analytical Chemistry</i> , 2018, 98, 758-788.	1.8	9
18	Lubricating Oil as a Major Constituent of Ship Exhaust Particles. <i>Environmental Science and Technology Letters</i> , 2017, 4, 54-58.	3.9	34

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19	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.	1.2	184
20	Atmospheric Chemistry of tert-butylamine and AMP. <i>Energy Procedia</i> , 2017, 114, 1026-1032.	1.8	3
21	Direct Sampling and Analysis of Atmospheric Particulate Organic Matter by Proton-Transfer-Reaction Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 10889-10897.	3.2	34
22	New insights into the column CH <sub>2</sub> O/NO <sub>2</sub> ratio as an indicator of near-surface ozone sensitivity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8885-8907.	1.2	87
23	Formaldehyde column density measurements as a suitable pathway to estimate near-surface ozone tendencies from space. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13088-13112.	1.2	19
24	Atmospheric benzene observations from oil and gas production in the Denver-Julesburg Basin in July and August 2014. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,055.	1.2	70
25	In situ measurements and modeling of reactive trace gases in a small biomass burning plume. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3813-3824.	1.9	81
26	Validation of TES ammonia observations at the single pixel scale in the San Joaquin Valley during DISCOVER-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5140-5154.	1.2	31
27	A novel inlet system for online chemical analysis of semi-volatile submicron particulate matter. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1353-1360.	1.2	58
28	Emissions of C <sub>6</sub> -C <sub>8</sub> aromatic compounds in the United States: Constraints from tall tower and aircraft measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 826-842.	1.2	44
29	A compact PTR-ToF-MS instrument for airborne measurements of volatile organic compounds at high spatiotemporal resolution. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3763-3772.	1.2	95
30	Dynamic Simulation of Fixed-Bed Methanation Reactors. <i>Chemie-Ingenieur-Technik</i> , 2014, 86, 1198-1204.	0.4	28
31	Detector aging induced mass discrimination and non-linearity effects in PTR-ToF-MS. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 93-97.	0.7	19
32	The Arctic Summer Cloud Ocean Study (ASCOS): overview and experimental design. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2823-2869.	1.9	140
33	A new software tool for the analysis of high resolution PTR-TOF mass spectra. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 127, 158-165.	1.8	102
34	Vertical profiling of aerosol particles and trace gases over the central Arctic Ocean during summer. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 12405-12431.	1.9	58
35	Volatile organic compounds in the western Mediterranean basin: urban and rural winter measurements during the DAURE campaign. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4291-4306.	1.9	46
36	Alternative pathway for atmospheric particles growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6840-6844.	3.3	91

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37	Analysis of high mass resolution PTR-TOF mass spectra from 1,3,5-trimethylbenzene (TMB) environmental chamber experiments. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 829-843.	1.9	37
38	Study of OH-initiated degradation of 2-aminoethanol. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1881-1901.	1.9	51
39	Deposition fluxes of terpenes over grassland. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	37
40	Biotic, abiotic, and management controls on methanol exchange above a temperate mountain grassland. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	28
41	Contrasting winter and summer VOC mixing ratios at a forest site in the Western Mediterranean Basin: the effect of local biogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13161-13179.	1.9	85
42	Eddy covariance VOC emission and deposition fluxes above grassland using PTR-TOF. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 611-625.	1.9	104
43	Aerosol composition and sources in the central Arctic Ocean during ASCOS. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10619-10636.	1.9	120
44	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12067-12084.	1.9	157
45	Enhanced spectral analysis of C-TOF Aerosol Mass Spectrometer data: Iterative residual analysis and cumulative peak fitting. <i>International Journal of Mass Spectrometry</i> , 2011, 306, 1-8.	0.7	36
46	Atmospheric chemistry of 2-aminoethanol (MEA). <i>Energy Procedia</i> , 2011, 4, 2245-2252.	1.8	65
47	Detection of Plant Volatiles after Leaf Wounding and Darkening by Proton Transfer Reaction "Time-of-Flight" Mass Spectrometry (PTR-TOF). <i>PLoS ONE</i> , 2011, 6, e20419.	1.1	152
48	High resolution PTR-TOF: Quantification and formula confirmation of VOC in real time. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1037-1044.	1.2	353
49	Improved peak analysis of signals based on counting systems: Illustrated for proton-transfer-reaction time-of-flight mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2010, 295, 72-77.	0.7	39
50	First eddy covariance flux measurements by PTR-TOF. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 387-395.	1.2	117
51	BVOC fluxes above mountain grassland. <i>Biogeosciences</i> , 2010, 7, 1413-1424.	1.3	43
52	MS/MS studies for the selective detection of isomeric biogenic VOCs using a Townsend Discharge Triple Quadrupole Tandem MS and a PTR-Linear Ion Trap MS. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 703-712.	1.2	24
53	On-line breath analysis with PTR-TOF. <i>Journal of Breath Research</i> , 2009, 3, 027004.	1.5	147
54	Development of a Proton-Transfer Reaction-Linear Ion Trap Mass Spectrometer for Quantitative Determination of Volatile Organic Compounds. <i>Analytical Chemistry</i> , 2008, 80, 8171-8177.	3.2	44