Magda Claeys

List of Publications by Year
in descending order

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Version: 2024-02-01

38 papers	7,290 citations	147801 31 h-index	315739 38 g-index
50 all docs	50 docs citations	50 times ranked	4413 citing authors

#	Article	IF	Citations
1	Formation of Secondary Organic Aerosols Through Photooxidation of Isoprene. Science, 2004, 303, 1173-1176.	12.6	1,316
2	Chemical Composition of Secondary Organic Aerosol Formed from the Photooxidation of Isoprene. Journal of Physical Chemistry A, 2006, 110, 9665-9690.	2.5	611
3	Organosulfate Formation in Biogenic Secondary Organic Aerosol. Journal of Physical Chemistry A, 2008, 112, 8345-8378.	2.5	594
4	Evidence for Organosulfates in Secondary Organic Aerosol. Environmental Science & Technology, 2007, 41, 517-527.	10.0	591
5	The Molecular Identification of Organic Compounds in the Atmosphere: State of the Art and Challenges. Chemical Reviews, 2015, 115, 3919-3983.	47.7	417
6	Levoglucosan levels at background sites in Europe for assessing the impact of biomass combustion on the European aerosol background. Journal of Geophysical Research, 2007, 112, .	3.3	374
7	Formation of secondary organic aerosols from isoprene and its gas-phase oxidation products through reaction with hydrogen peroxide. Atmospheric Environment, 2004, 38, 4093-4098.	4.1	333
8	Arabitol and mannitol as tracers for the quantification of airborne fungal spores. Atmospheric Environment, 2008, 42, 588-593.	4.1	306
9	Evidence for the Existence of Organosulfates from Î²-Pinene Ozonolysis in Ambient Secondary Organic Aerosol. Environmental Science & Technology, 2007, 41, 6678-6683.	10.0	284
10	3â€methylâ€1,2,3â€butanetricarboxylic acid: An atmospheric tracer for terpene secondary organic aerosol. Geophysical Research Letters, 2007, 34, .	4.0	268
11	Characterization of organosulfates from the photooxidation of isoprene and unsaturated fatty acids in ambient aerosol using liquid chromatography/(â) electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2008, 43, 371-382.	1.6	222
12	Improved Method for Quantifying Levoglucosan and Related Monosaccharide Anhydrides in Atmospheric Aerosols and Application to Samples from Urban and Tropical Locations. Environmental Science & Technology, 2002, 36, 747-753.	10.0	184
13	Development of a gas chromatographic/ion trap mass spectrometric method for the determination of levoglucosan and saccharidic compounds in atmospheric aerosols. Application to urban aerosols. Journal of Mass Spectrometry, 2002, 37, 1249-1257.	1.6	179
14	Terpenylic Acid and Related Compounds from the Oxidation of Î±-Pinene: Implications for New Particle Formation and Growth above Forests. Environmental Science & Technology, 2009, 43, 6976-6982.	10.0	175
15	Characterization and Quantification of Isoprene-Derived Epoxydiols in Ambient Aerosol in the Southeastern United States. Environmental Science & Technology, 2010, 44, 4590-4596.	10.0	165
16	Characterization of oxygenated derivatives of isoprene related to 2-methyltetrols in Amazonian aerosols using trimethylsilylation and gas chromatography/ion trap mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 1343-1351.	1.5	145
17	Characterization of 2-methylglyceric acid oligomers in secondary organic aerosol formed from the photooxidation of isoprene using trimethylsilylation and gas chromatography/ion trap mass spectrometry. Journal of Mass Spectrometry, 2007, 42, 101-116.	1.6	125
18	Polar organic marker compounds in PM2.5 aerosol from a mixed forest site in western Germany. Chemosphere, 2008, 73, 1308-1314.	8.2	119

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19	Characterization of Atmospheric Aerosols at a Forested Site in Central Europe. Environmental Science & Technology, 2009, 43, 4665-4671.	10.0	100
20	Mass spectrometric characterization of isomeric terpenoic acids from the oxidation of Î±â€pinene, Î²â€pinene, dâ€limonene, and Î”³â€carene in fine forest aerosol. Journal of Mass Spectrometry, 2011, 46, 425-442.	1.6	89
21	Assessment of the contribution from wood burning to the PM10 aerosol in Flanders, Belgium. Science of the Total Environment, 2012, 437, 226-236.	8.0	73
22	Characterisation of tracers for aging of Î±-pinene secondary organic aerosol using liquid chromatography/negative ion electrospray ionisation mass spectrometry. Environmental Chemistry, 2012, 9, 236.	1.5	60
23	Mass spectrometric characterization of organosulfates related to secondary organic aerosol from isoprene. Rapid Communications in Mass Spectrometry, 2013, 27, 784-794.	1.5	60
24	Organic compounds in urban aerosols from Gent, Belgium: Characterization, sources, and seasonal differences. Journal of Geophysical Research, 2002, 107, ICC 5-1-ICC 5-12.	3.3	57
25	Chemical characterization of the main products formed through aqueous-phase photonitration of guaiacol. Atmospheric Measurement Techniques, 2014, 7, 2457-2470.	3.1	57
26	An intercomparison study of analytical methods used for quantification of levoglucosan in ambient aerosol filter samples. Atmospheric Measurement Techniques, 2015, 8, 125-147.	3.1	54
27	Characterization of Polar Organosulfates in Secondary Organic Aerosol from the Green Leaf Volatile 3-Z-Hexenal. Environmental Science & Technology, 2014, 48, 12671-12678.	10.0	45
28	Source apportionment of carbonaceous chemical species to fossil fuel combustion, biomass burning and biogenic emissions by a coupled radiocarbonâ€“levoglucosan marker method. Atmospheric Chemistry and Physics, 2017, 17, 13767-13781.	4.9	43
29	Characterization of polar organosulfates in secondary organic aerosol from the unsaturated aldehydes 2-<i>E</i>-pentenal, 2-<i>E</i>-hexenal, and 3-<i>Z</i>-hexenal. Atmospheric Chemistry and Physics, 2016, 16, 7135-7148.	4.9	41
30	Fragmentation study of diastereoisomeric 2-methyltetrols, oxidation products of isoprene, as their trimethylsilyl ethers, using gas chromatography/ion trap mass spectrometry. Rapid Communications in Mass Spectrometry, 2004, 18, 1787-1797.	1.5	37
31	Campholenic aldehyde ozonolysis: a mechanism leading to specific biogenic secondary organic aerosol constituents. Atmospheric Chemistry and Physics, 2014, 14, 719-736.	4.9	37
32	High-molecular-weight esters in <i>Î±</i>-pinene ozonolysis secondary organic aerosol: structural characterization and mechanistic proposal for their formation from highly oxygenated molecules. Atmospheric Chemistry and Physics, 2018, 18, 8453-8467.	4.9	35
33	2-Hydroxyterpenylic Acid: An Oxygenated Marker Compound for Î±-Pinene Secondary Organic Aerosol in Ambient Fine Aerosol. Environmental Science & Technology, 2014, 48, 4901-4908.	10.0	32
34	Radical oxidation of methyl vinyl ketone and methacrolein in aqueous droplets: Characterization of organosulfates and atmospheric implications. Chemosphere, 2019, 214, 1-9.	8.2	21
35	Synthesis and characterisation of peroxypinic acids as proxies for highly oxygenated molecules (HOMs) in secondary organic aerosol. Atmospheric Chemistry and Physics, 2018, 18, 10973-10983.	4.9	15
36	Structural Characterization of Lactone-Containing MW 212 Organosulfates Originating from Isoprene Oxidation in Ambient Fine Aerosol. Environmental Science & Technology, 2020, 54, 1415-1424.	10.0	11

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37	Contribution from Selected Organic Species to PM2.5 Aerosol during a Summer Field Campaign at K-Puszta, Hungary. Atmosphere, 2017, 8, 221.	2.3	7
38	Secondary Organic Aerosol Formation from Isoprene: Selected Research, Historic Account and State of the Art. Atmosphere, 2021, 12, 728.	2.3	7