

# Willy Maenhaut

## List of Publications by Year in descending order

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359  
papers

29,186  
citations

5558

82  
h-index

7333

152  
g-index

391  
all docs

391  
docs citations

391  
times ranked

14636  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | The formation, properties and impact of secondary organic aerosol: current and emerging issues. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5155-5236.   | 1.9  | 3,486     |
| 2  | Formation of Secondary Organic Aerosols Through Photooxidation of Isoprene. <i>Science</i> , 2004, 303, 1173-1176.   | 6.0  | 1,316     |
| 3  | Source apportionment of particulate matter in Europe: A review of methods and results. <i>Journal of Aerosol Science</i> , 2008, 39, 827-849.  | 1.8  | 812       |
| 4  | A European aerosol phenomenology <sup>2</sup> : chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. <i>Atmospheric Environment</i> , 2004, 38, 2579-2595.                   | 1.9  | 801       |
| 5  | A European aerosol phenomenology <sup>3</sup> : Physical and chemical characteristics of particulate matter from 60 rural, urban, and kerbside sites across Europe. <i>Atmospheric Environment</i> , 2010, 44, 1308-1320.        | 1.9  | 654       |
| 6  | Global distribution of atmospheric phosphorus sources, concentrations and deposition rates, and anthropogenic impacts. <i>Global Biogeochemical Cycles</i> , 2008, 22, .   | 1.9  | 617       |
| 7  | Chemical Composition of Secondary Organic Aerosol Formed from the Photooxidation of Isoprene. <i>Journal of Physical Chemistry A</i> , 2006, 110, 9665-9690.   | 1.1  | 611       |
| 8  | Organosulfate Formation in Biogenic Secondary Organic Aerosol. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8345-8378.  | 1.1  | 594       |
| 9  | Atmospheric Iron Deposition: Global Distribution, Variability, and Human Perturbations. <i>Annual Review of Marine Science</i> , 2009, 1, 245-278.   | 5.1  | 536       |
| 10 | A European aerosol phenomenology <sup>1</sup> : physical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. <i>Atmospheric Environment</i> , 2004, 38, 2561-2577.                   | 1.9  | 494       |
| 11 | Water-soluble organic compounds in biomass burning aerosols over Amazonia <sup>1</sup> . Characterization by NMR and GC-MS. <i>Journal of Geophysical Research</i> , 2002, 107, LBA 14-1.  | 3.3  | 430       |
| 12 | Results of the <sup>13</sup> C-carbon conference <sup>1</sup> : international aerosol carbon round robin test stage I. <i>Atmospheric Environment</i> , 2001, 35, 2111-2121.   | 1.9  | 419       |
| 13 | The Molecular Identification of Organic Compounds in the Atmosphere: State of the Art and Challenges. <i>Chemical Reviews</i> , 2015, 115, 3919-3983.  | 23.0 | 417       |
| 14 | Internal Mixture of Sea Salt, Silicates, and Excess Sulfate in Marine Aerosols. <i>Science</i> , 1986, 232, 1620-1623.   | 6.0  | 339       |
| 15 | Formation of secondary organic aerosols from isoprene and its gas-phase oxidation products through reaction with hydrogen peroxide. <i>Atmospheric Environment</i> , 2004, 38, 4093-4098.  | 1.9  | 333       |
| 16 | <sup>3</sup> Methyl <sup>1,2</sup> <sup>3</sup> butanetricarboxylic acid: An atmospheric tracer for terpene secondary organic aerosol. <i>Geophysical Research Letters</i> , 2007, 34, .   | 1.5  | 268       |
| 17 | Characterization of the organic composition of aerosols from Rondônia, Brazil, during the LBA-SMOCC 2002 experiment and its representation through model compounds. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 375-402. | 1.9  | 265       |
| 18 | Inorganic bromine in the marine boundary layer: a critical review. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1301-1336.  | 1.9  | 243       |

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|----|--|-----|-----------|
| 19 | Characterization of the Gent Stacked Filter Unit PM10Sampler. <i>Aerosol Science and Technology</i> , 1997, 27, 726-735.   | 1.5 | 237       |
| 20 | Hydroxycarboxylic Acids: Markers for Secondary Organic Aerosol from the Photooxidation of $\alpha$ -Pinene. <i>Environmental Science &amp; Technology</i> , 2007, 41, 1628-1634.   | 4.6 | 226       |
| 21 | Characterization of organosulfates from the photooxidation of isoprene and unsaturated fatty acids in ambient aerosol using liquid chromatography/electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2008, 43, 371-382.      | 0.7 | 222       |
| 22 | Sources and chemical composition of atmospheric fine and coarse particles in the Helsinki area. <i>Atmospheric Environment</i> , 2001, 35, 5381-5391.  | 1.9 | 202       |
| 23 | Low molecular weight organic acids in aerosol particles from Rondônia, Brazil, during the biomass-burning, transition and wet periods. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 781-797.  | 1.9 | 196       |
| 24 | Airborne studies of aerosol emissions from savanna fires in southern Africa: 2. Aerosol chemical composition. <i>Journal of Geophysical Research</i> , 1998, 103, 32119-32128.   | 3.3 | 184       |
| 25 | Improved Method for Quantifying Levoglucosan and Related Monosaccharide Anhydrides in Atmospheric Aerosols and Application to Samples from Urban and Tropical Locations. <i>Environmental Science &amp; Technology</i> , 2002, 36, 747-753.                | 4.6 | 184       |
| 26 | Trace elements in tropical African savanna biomass burning aerosols. <i>Journal of Atmospheric Chemistry</i> , 1995, 22, 19-39.  | 1.4 | 181       |
| 27 | 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. <i>Journal of Mass Spectrometry</i> , 2002, 37, 1249-1257. | 0.7 | 179       |
| 28 | Identification and estimation of the biomass burning contribution to Beijing aerosol using levoglucosan as a molecular marker. <i>Atmospheric Environment</i> , 2008, 42, 7013-7021.   | 1.9 | 178       |
| 29 | Concentration and size distribution of particulate trace elements in the south polar atmosphere. <i>Journal of Geophysical Research</i> , 1979, 84, 2421-2431.   | 3.3 | 177       |
| 30 | Organic compounds present in the natural Amazonian aerosol: Characterization by gas chromatography-mass spectrometry. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.   | 3.3 | 177       |
| 31 | Elemental and organic carbon in PM <sub>10</sub> : a one year measurement campaign within the European Monitoring and Evaluation Programme EMEP. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5711-5725.  | 1.9 | 177       |
| 32 | Composition and sources of aerosols from the Amazon Basin. <i>Journal of Geophysical Research</i> , 1988, 93, 1605-1615.   | 3.3 | 175       |
| 33 | Terpenylic Acid and Related Compounds from the Oxidation of $\alpha$ -Pinene: Implications for New Particle Formation and Growth above Forests. <i>Environmental Science &amp; Technology</i> , 2009, 43, 6976-6982.                                       | 4.6 | 175       |
| 34 | Observation of 2-methyltetrols and related photo-oxidation products of isoprene in boreal forest aerosols from Hyytiälä, Finland. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 2761-2770.   | 1.9 | 169       |
| 35 | Aerosol characteristics and sources for the Amazon Basin during the wet season. <i>Journal of Geophysical Research</i> , 1990, 95, 16971-16985.  | 3.3 | 164       |
| 36 | Polar organic compounds in rural PM <sub>2.5</sub> aerosols from K-pusztá, Hungary, during a 2003 summer field campaign: Sources and diel variations. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1805-1814.                                       | 1.9 | 163       |

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|----|---|-----|-----------|
| 37 | Terpenylic acid and related compounds: precursors for dimers in secondary organic aerosol from the ozonolysis of $\beta$ - and $\beta$ -pinene. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9383-9392.   | 1.9 | 157       |
| 38 | Time-resolved mass concentration, composition and sources of aerosol particles in a metropolitan underground railway station. <i>Atmospheric Environment</i> , 2007, 41, 8391-8405.   | 1.9 | 153       |
| 39 | Chemical composition of mineral dust aerosol during the Saharan Dust Experiment (SHADE) airborne campaign in the Cape Verde region, September 2000. <i>Journal of Geophysical Research</i> , 2003, 108, .   | 3.3 | 152       |
| 40 | Methyl halide emissions from savanna fires in southern Africa. <i>Journal of Geophysical Research</i> , 1996, 101, 23603-23613.   | 3.3 | 148       |
| 41 | Aerosol mass closure and reconstruction of the light scattering coefficient over the Eastern Mediterranean Sea during the MINOS campaign. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 2253-2265.  | 1.9 | 148       |
| 42 | Regional atmospheric aerosol composition and sources in the eastern Transvaal, South Africa, and impact of biomass burning. <i>Journal of Geophysical Research</i> , 1996, 101, 23631-23650.  | 3.3 | 147       |
| 43 | Characterization of oxygenated derivatives of isoprene related to 2-methyltetrols in Amazonian aerosols using trimethylsilylation and gas chromatography/ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1343-1351.                    | 0.7 | 145       |
| 44 | Chemical characterisation of humic-like substances from urban, rural and tropical biomass burning environments using liquid chromatography with UV/vis photodiode array detection and electrospray ionisation mass spectrometry. <i>Environmental Chemistry</i> , 2012, 9, 273. | 0.7 | 142       |
| 45 | Liquid chromatography tandem mass spectrometry method for characterization of monoaromatic nitro-compounds in atmospheric particulate matter. <i>Journal of Chromatography A</i> , 2012, 1268, 35-43.   | 1.8 | 139       |
| 46 | Trace element composition and origin of the atmospheric aerosol in the Norwegian arctic. <i>Atmospheric Environment</i> , 1989, 23, 2551-2569.  | 1.1 | 137       |
| 47 | The long-range transport of southern African aerosols to the tropical South Atlantic. <i>Journal of Geophysical Research</i> , 1996, 101, 23777-23791.  | 3.3 | 135       |
| 48 | Large-scale aerosol source apportionment in Amazonia. <i>Journal of Geophysical Research</i> , 1998, 103, 31837-31847.  | 3.3 | 135       |
| 49 | Elemental and organic carbon in urban canyon and background environments in Budapest, Hungary. <i>Atmospheric Environment</i> , 2004, 38, 27-36.  | 1.9 | 133       |
| 50 | Light scattering by dust and anthropogenic aerosol at a remote site in the Negev desert, Israel. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 3-1.   | 3.3 | 132       |
| 51 | Composition and diurnal variability of the natural Amazonian aerosol. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.  | 3.3 | 132       |
| 52 | Accurate calibration of a Si(Li) detector for PIXE analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1984, 1, 123-136.   | 0.6 | 131       |
| 53 | Saharan dust in Brazil and Suriname during the Large-Scale Biosphere-Atmosphere Experiment in Amazonia (LBA) - Cooperative LBA Regional Experiment (CLAIRE) in March 1998. <i>Journal of Geophysical Research</i> , 2001, 106, 14919-14934.                                     | 3.3 | 131       |
| 54 | Inorganic and carbonaceous aerosols during the Southern African Regional Science Initiative (SAFARI) African biomass burning. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.  | 3.3 | 131       |

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|----|---|-----|-----------|
| 55 | Overview of the inorganic and organic composition of size-segregated aerosol in Rondônia, Brazil, from the biomass-burning period to the onset of the wet season. <i>Journal of Geophysical Research</i> , 2007, 112, .                         | 3.3 | 128       |
| 56 | Comparative analysis of organic and elemental carbon concentrations in carbonaceous aerosols in three European cities. <i>Atmospheric Environment</i> , 2007, 41, 5972-5983.  | 1.9 | 128       |
| 57 | Transport of traffic-related aerosols in urban areas. <i>Science of the Total Environment</i> , 2000, 257, 199-211.   | 3.9 | 122       |
| 58 | Artefacts in the sampling of nitrate studied in the "INTERCOMP" campaigns of EUROTRAC-AEROSOL. <i>Atmospheric Environment</i> , 2004, 38, 6487-6496.  | 1.9 | 122       |
| 59 | New Analytical Method for the Determination of Levoglucosan, Polyhydroxy Compounds, and 2-Methylerythritol and Its Application to Smoke and Rainwater Samples. <i>Environmental Science &amp; Technology</i> , 2005, 39, 2744-2752.             | 4.6 | 122       |
| 60 | A new cascade impactor for aerosol sampling with subsequent PIXE analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1996, 109-110, 482-487.   | 0.6 | 121       |
| 61 | Polar organic marker compounds in PM2.5 aerosol from a mixed forest site in western Germany. <i>Chemosphere</i> , 2008, 73, 1308-1314.  | 4.2 | 119       |
| 62 | Importance of the organic aerosol fraction for modeling aerosol hygroscopic growth and activation: a case study in the Amazon Basin. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 3111-3126.   | 1.9 | 118       |
| 63 | Study of water-soluble atmospheric humic matter in urban and marine environments. <i>Atmospheric Research</i> , 2008, 87, 1-12.   | 1.8 | 115       |
| 64 | Chemical characterisation of atmospheric aerosols during a 2007 summer field campaign at Brasschaat, Belgium: sources and source processes of biogenic secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 125-138. | 1.9 | 107       |
| 65 | The contributions of snow, fog, and dry deposition to the summer flux of anions and cations at Summit, Greenland. <i>Journal of Geophysical Research</i> , 1995, 100, 16275.  | 3.3 | 106       |
| 66 | INTERCOMP2000: the comparability of methods in use in Europe for measuring the carbon content of aerosol. <i>Atmospheric Environment</i> , 2004, 38, 6507-6519.   | 1.9 | 106       |
| 67 | Intercomparison of Measurement Techniques for Black or Elemental Carbon Under Urban Background Conditions in Wintertime: Influence of Biomass Combustion. <i>Environmental Science &amp; Technology</i> , 2008, 42, 884-889.                    | 4.6 | 104       |
| 68 | One-year study of nitro-organic compounds and their relation to wood burning in PM10 aerosol from a rural site in Belgium. <i>Atmospheric Environment</i> , 2013, 81, 561-568.  | 1.9 | 103       |
| 69 | Radionuclide migration in groundwaters: Review of the behaviour of actinides (Technical Report). <i>Pure and Applied Chemistry</i> , 1993, 65, 1081-1102.   | 0.9 | 102       |
| 70 | Organic and elemental carbon concentrations in carbonaceous aerosols during summer and winter sampling campaigns in Barcelona, Spain. <i>Atmospheric Environment</i> , 2006, 40, 2180-2193.   | 1.9 | 102       |
| 71 | Sampling artefacts, concentration and chemical composition of fine water-soluble organic carbon and humic-like substances in a continental urban atmospheric environment. <i>Atmospheric Environment</i> , 2007, 41, 4106-4118.                 | 1.9 | 101       |
| 72 | Characterization of Atmospheric Aerosols at a Forested Site in Central Europe. <i>Environmental Science &amp; Technology</i> , 2009, 43, 4665-4671.   | 4.6 | 100       |

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|----|---|-----|-----------|
| 73 | Large scale mercury and trace element measurements in the Amazon basin. <i>Atmospheric Environment</i> , 2000, 34, 4085-4096.   | 1.9 | 99        |
| 74 | Chemical characterisation of marine aerosol at Amsterdam Island during the austral summer of 2006–2007. <i>Journal of Aerosol Science</i> , 2010, 41, 13-22.  | 1.8 | 99        |
| 75 | Tracers and impact of open burning of rice straw residues on PM in Eastern Spain. <i>Atmospheric Environment</i> , 2008, 42, 1941-1957.   | 1.9 | 98        |
| 76 | Changes in elemental composition and mass of atmospheric aerosol pollution between 1996 and 2002 in a Central European city. <i>Environmental Pollution</i> , 2006, 143, 479-488.   | 3.7 | 97        |
| 77 | The role of iron and black carbon in aerosol light absorption. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3623-3637.   | 1.9 | 97        |
| 78 | Long-term monitoring of atmospheric aerosols in the Amazon Basin: Source identification and apportionment. <i>Journal of Geophysical Research</i> , 1998, 103, 31849-31864.   | 3.3 | 94        |
| 79 | Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 2000, 36, 135-155.   | 1.4 | 94        |
| 80 | PIXE analysis of aerosol samples collected over the atlantic ocean from a sailboat. <i>Nuclear Instruments &amp; Methods</i> , 1981, 181, 399-405.  | 1.2 | 93        |
| 81 | Volatilization of the Heavy Metals during Circulating Fluidized Bed Combustion of Forest Residue. <i>Environmental Science &amp; Technology</i> , 1999, 33, 496-502.  | 4.6 | 93        |
| 82 | Validation of the MIMOSA-AURORA-IFDM model chain for policy support: Modeling concentrations of elemental carbon in Flanders. <i>Atmospheric Environment</i> , 2011, 45, 6705-6713.   | 1.9 | 93        |
| 83 | Polar organic marker compounds in atmospheric aerosols during the LBA-SMOCC 2002 biomass burning experiment in Rondônia, Brazil: sources and source processes, time series, diel variations and size distributions. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9319-9331. | 1.9 | 90        |
| 84 | Mass spectrometric characterization of isomeric terpenoic acids from the oxidation of $\alpha$ -pinene, $\beta$ -pinene, $\alpha$ -limonene, and $\beta$ -carene in fine forest aerosol. <i>Journal of Mass Spectrometry</i> , 2011, 46, 425-442.                                   | 0.7 | 89        |
| 85 | Dust and pollution aerosols over the Negev desert, Israel: Properties, transport, and radiative effect. <i>Journal of Geophysical Research</i> , 2006, 111, .   | 3.3 | 87        |
| 86 | ECOC comparison exercise with identical thermal protocols after temperature offset correction – instrument diagnostics by in-depth evaluation of operational parameters. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 779-792.  | 1.2 | 87        |
| 87 | Determination of the chemical composition of the South Pole aerosol by instrumental neutron activation analysis. <i>Journal of Radioanalytical Chemistry</i> , 1977, 37, 637-650.   | 0.5 | 86        |
| 88 | Comprehensive characterisation of atmospheric aerosols in Budapest, Hungary: physicochemical properties of inorganic species. <i>Atmospheric Environment</i> , 2001, 35, 4367-4378.   | 1.9 | 85        |
| 89 | Refractive index of aerosol particles over the Amazon tropical forest during LBA-EUSTACH 1999. <i>Journal of Aerosol Science</i> , 2003, 34, 883-907.   | 1.8 | 85        |
| 90 | Influence of transport and ocean ice extent on biogenic aerosol sulfur in the Arctic atmosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .  | 3.3 | 85        |

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|-----|--|-----|-----------|
| 91  | Molecular Composition of Boreal Forest Aerosol from Hyytiälä, Finland, Using Ultrahigh Resolution Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2013, 47, 4069-4079.  | 4.6 | 85        |
| 92  | Particle-induced x-ray emission (PIXE) analysis of biological materials: Precision, accuracy and application to cancer tissues. <i>Nuclear Instruments &amp; Methods</i> , 1980, 168, 557-562.   | 1.2 | 82        |
| 93  | Determination of isoprene and $\alpha$ -pinene oxidation products in boreal forest aerosols from Hyytiälä, Finland: diel variations and possible link with particle formation events. <i>Plant Biology</i> , 2008, 10, 138-149.                          | 1.8 | 81        |
| 94  | Impact of air pollution control measures and regional transport on carbonaceous aerosols in fine particulate matter in urban Beijing, China: insights gained from long-term measurement. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8569-8590. | 1.9 | 81        |
| 95  | Carbonaceous aerosol characterization in the Amazon basin, Brazil: novel dicarboxylic acids and related compounds. <i>Atmospheric Environment</i> , 2000, 34, 5037-5051.   | 1.9 | 80        |
| 96  | Enhanced Volatile Organic Compounds emissions and organic aerosol mass increase the oligomer content of atmospheric aerosols. <i>Scientific Reports</i> , 2016, 6, 35038.  | 1.6 | 80        |
| 97  | Fine and coarse aerosol composition from a rural area in north China. <i>Atmospheric Environment</i> , 1981, 15, 933-937.  | 1.1 | 79        |
| 98  | Size distributions of mass and chemical components in street-level and rooftop PM1 particles in Helsinki. <i>Atmospheric Environment</i> , 2003, 37, 1673-1690.  | 1.9 | 79        |
| 99  | Comparative chemical mass closure of fine and coarse aerosols at two sites in south and west Europe: Implications for EU air pollution policies. <i>Atmospheric Environment</i> , 2007, 41, 315-326.   | 1.9 | 77        |
| 100 | Influence of Sampling Artefacts on Measured PM, OC, and EC Levels in Carbonaceous Aerosols in an Urban Area. <i>Aerosol Science and Technology</i> , 2006, 40, 107-117.  | 1.5 | 76        |
| 101 | Application and comparison of two statistical trajectory techniques for identification of source regions of atmospheric aerosol species. <i>Atmospheric Environment</i> , 2002, 36, 5607-5618.   | 1.9 | 74        |
| 102 | Characterization of oligomers from methylglyoxal under dark conditions: a pathway to produce secondary organic aerosol through cloud processing during nighttime. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3803-3812.                        | 1.9 | 74        |
| 103 | Instrumental neutron activation analysis of dry atmospheric fall-out and rain-water. <i>Analytica Chimica Acta</i> , 1978, 100, 75-85.   | 2.6 | 73        |
| 104 | Aerosol optical properties and large-scale transport of air masses: Observations at a coastal and a semiarid site in the eastern Mediterranean during summer 1998. <i>Journal of Geophysical Research</i> , 2001, 106, 9807-9826.                        | 3.3 | 73        |
| 105 | Assessment of the contribution from wood burning to the PM10 aerosol in Flanders, Belgium. <i>Science of the Total Environment</i> , 2012, 437, 226-236.   | 3.9 | 73        |
| 106 | The carbonaceous aerosol levels still remain a challenge in the Beijing-Tianjin-Hebei region of China: Insights from continuous high temporal resolution measurements in multiple cities. <i>Environment International</i> , 2019, 126, 171-183.         | 4.8 | 73        |
| 107 | Urban and rural ultrafine (PM0.1) particles in the Helsinki area. <i>Atmospheric Environment</i> , 2001, 35, 4593-4607.  | 1.9 | 71        |
| 108 | Molecular composition of biogenic secondary organic aerosols using ultrahigh-resolution mass spectrometry: comparing laboratory and field studies. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2155-2167.                                       | 1.9 | 70        |

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|-----|---|-----|-----------|
| 109 | Chirality and the origin of atmospheric humic-like substances. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1315-1327.  | 1.9 | 69        |
| 110 | Functional group analysis by H NMR/chemical derivatization for the characterization of organic aerosol from the SMOCC field campaign. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1003-1019.                | 1.9 | 68        |
| 111 | An intercomparison of spectral data processing techniques in PIXE. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1986, 14, 204-220.  | 0.6 | 67        |
| 112 | Field Study on Ash Behavior during Circulating Fluidized-Bed Combustion of Biomass. 1. Ash Formation. <i>Energy &amp; Fuels</i> , 1999, 13, 379-389.  | 2.5 | 67        |
| 113 | Surface tension of atmospheric humic-like substances in connection with relaxation, dilution, and solution pH. <i>Journal of Geophysical Research</i> , 2006, 111, .  | 3.3 | 67        |
| 114 | Elemental and organic carbon in atmospheric aerosols at downtown and suburban sites in Prague. <i>Atmospheric Research</i> , 2008, 90, 287-302.   | 1.8 | 66        |
| 115 | Intercomparison of methods to measure the mass concentration of the atmospheric aerosol during INTERCOMP2000â€™ influence of instrumentation and size cuts. <i>Atmospheric Environment</i> , 2004, 38, 6467-6476.   | 1.9 | 65        |
| 116 | Field Study on Ash Behavior during Circulating Fluidized-Bed Combustion of Biomass. 2. Ash Deposition and Alkali Vapor Condensation. <i>Energy &amp; Fuels</i> , 1999, 13, 390-395.                                 | 2.5 | 64        |
| 117 | Effects of anthropogenic emissions on the molecular composition of urban organic aerosols: An ultrahigh resolution mass spectrometry study. <i>Atmospheric Environment</i> , 2014, 89, 525-532.                     | 1.9 | 64        |
| 118 | Comparative study of elemental mass size distributions in urban atmospheric aerosol. <i>Journal of Aerosol Science</i> , 2002, 33, 339-356.   | 1.8 | 62        |
| 119 | Characterization and source identification of fine particulate matter in urban Beijing during the 2015 Spring Festival. <i>Science of the Total Environment</i> , 2018, 628-629, 430-440.                           | 3.9 | 62        |
| 120 | Size distributions of atmospheric trace elements at dye 3, Greenland â€™ I. Distribution characteristics and dry deposition velocities. <i>Atmospheric Environment Part A General Topics</i> , 1993, 27, 2787-2802. | 1.3 | 61        |
| 121 | Mass spectrometric characterization of organosulfates related to secondary organic aerosol from isoprene. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 784-794.                                     | 0.7 | 60        |
| 122 | Chemistry of marine aerosol over the tropical and equatorial Pacific. <i>Journal of Geophysical Research</i> , 1986, 91, 8623-8636.   | 3.3 | 59        |
| 123 | Long-range transport of trace elements to Ny Å...lesund, Spitsbergen. <i>Atmospheric Environment</i> , 1985, 19, 857-865.   | 1.1 | 58        |
| 124 | Organic compounds in urban aerosols from Gent, Belgium: Characterization, sources, and seasonal differences. <i>Journal of Geophysical Research</i> , 2002, 107, ICC 5-1-ICC 5-12.                                  | 3.3 | 57        |
| 125 | Chemkar PM10: An extensive look at the local differences in chemical composition of PM10 in Flanders, Belgium. <i>Atmospheric Environment</i> , 2011, 45, 108-116.  | 1.9 | 56        |
| 126 | Selenium, zinc, and copper changes with valproic acid. <i>Neurology</i> , 1984, 34, 1393-1393.  | 1.5 | 56        |



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|-----|---|-----|-----------|
| 127 | Characterization of the atmospheric aerosol over the eastern equatorial Pacific. Journal of Geophysical Research, 1983, 88, 5353-5364.  | 3.3 | 55        |
| 128 | Relation between aerosol sources and meteorological parameters for inhalable atmospheric particles in Sao Paulo City, Brazil. Atmospheric Environment, 1994, 28, 2307-2315.   | 1.9 | 55        |
| 129 | Chemical composition and mass closure for PM <sub>2.5</sub> and PM <sub>10</sub> aerosols at K epusza, Hungary, in summer 2006. X-Ray Spectrometry, 2008, 37, 193-197.  | 0.9 | 55        |
| 130 | Physical and chemical characteristics of aerosols over the Negev Desert (Israel) during summer 1996. Journal of Geophysical Research, 2001, 106, 4871-4890.   | 3.3 | 54        |
| 131 | A review of air pollution and atmospheric deposition dynamics in southern Saxony, Germany, Central Europe. Atmospheric Environment, 2003, 37, 671-691.  | 1.9 | 54        |
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