

Willy Maenhaut

List of Publications by Year in descending order

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359
papers

29,186
citations

5574

82
h-index

7348

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.	4.9	3,486
2	Formation of Secondary Organic Aerosols Through Photooxidation of Isoprene. <i>Science</i> , 2004, 303, 1173-1176.	12.6	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.	3.8	812
4	A European aerosol phenomenology ² : chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. <i>Atmospheric Environment</i> , 2004, 38, 2579-2595.	4.1	801
5	A European aerosol phenomenology ³ : Physical and chemical characteristics of particulate matter from 60 rural, urban, and kerbside sites across Europe. <i>Atmospheric Environment</i> , 2010, 44, 1308-1320.	4.1	654
6	Global distribution of atmospheric phosphorus sources, concentrations and deposition rates, and anthropogenic impacts. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	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.	2.5	611
8	Organosulfate Formation in Biogenic Secondary Organic Aerosol. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8345-8378.	2.5	594
9	Atmospheric Iron Deposition: Global Distribution, Variability, and Human Perturbations. <i>Annual Review of Marine Science</i> , 2009, 1, 245-278.	11.6	536
10	A European aerosol phenomenology ¹ : physical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. <i>Atmospheric Environment</i> , 2004, 38, 2561-2577.	4.1	494
11	Water-soluble organic compounds in biomass burning aerosols over Amazonia ¹ . Characterization by NMR and GC-MS. <i>Journal of Geophysical Research</i> , 2002, 107, LBA 14-1.	3.3	430
12	Results of the ¹³ C-carbon conference ¹ : international aerosol carbon round robin test stage I. <i>Atmospheric Environment</i> , 2001, 35, 2111-2121.	4.1	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.	47.7	417
14	Internal Mixture of Sea Salt, Silicates, and Excess Sulfate in Marine Aerosols. <i>Science</i> , 1986, 232, 1620-1623.	12.6	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.	4.1	333
16	¹³ C-methyl ^{1,2,3} -butanetricarboxylic acid: An atmospheric tracer for terpene secondary organic aerosol. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	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.	4.9	265
18	Inorganic bromine in the marine boundary layer: a critical review. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1301-1336.	4.9	243

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19	Characterization of the Gent Stacked Filter Unit PM10 Sampler. <i>Aerosol Science and Technology</i> , 1997, 27, 726-735.	3.1	237
20	Hydroxycarboxylic Acids: Markers for Secondary Organic Aerosol from the Photooxidation of α -Pinene. <i>Environmental Science & Technology</i> , 2007, 41, 1628-1634.	10.0	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.	1.6	222
22	Sources and chemical composition of atmospheric fine and coarse particles in the Helsinki area. <i>Atmospheric Environment</i> , 2001, 35, 5381-5391.	4.1	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.	4.9	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 & Technology</i> , 2002, 36, 747-753.	10.0	184
26	Trace elements in tropical African savanna biomass burning aerosols. <i>Journal of Atmospheric Chemistry</i> , 1995, 22, 19-39.	3.2	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.	1.6	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.	4.1	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 ₁₀ : a one year measurement campaign within the European Monitoring and Evaluation Programme EMEP. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5711-5725.	4.9	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 α -Pinene: Implications for New Particle Formation and Growth above Forests. <i>Environmental Science & Technology</i> , 2009, 43, 6976-6982.	10.0	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.	4.9	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 _{2.5} 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.	4.9	163

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37	Terpenylic acid and related compounds: precursors for dimers in secondary organic aerosol from the ozonolysis of α - and β -pinene. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9383-9392.	4.9	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.	4.1	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.	4.9	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.	1.5	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.	1.5	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.	3.7	139
46	Trace element composition and origin of the atmospheric aerosol in the Norwegian arctic. <i>Atmospheric Environment</i> , 1989, 23, 2551-2569.	1.0	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.	4.1	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, .	3.3	132
52	Accurate calibration of a Si(Li) detector for PIXE analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1984, 1, 123-136.	1.4	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.	4.1	128
57	Transport of traffic-related aerosols in urban areas. <i>Science of the Total Environment</i> , 2000, 257, 199-211.	8.0	122
58	Artefacts in the sampling of nitrate studied in the "INTERCOMP" campaigns of EUROTRAC-AEROSOL. <i>Atmospheric Environment</i> , 2004, 38, 6487-6496.	4.1	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 & Technology</i> , 2005, 39, 2744-2752.	10.0	122
60	A new cascade impactor for aerosol sampling with subsequent PIXE analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 109-110, 482-487.	1.4	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.	8.2	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.	4.9	118
63	Study of water-soluble atmospheric humic matter in urban and marine environments. <i>Atmospheric Research</i> , 2008, 87, 1-12.	4.1	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.	4.9	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.	4.1	106
67	Intercomparison of Measurement Techniques for Black or Elemental Carbon Under Urban Background Conditions in Wintertime: Influence of Biomass Combustion. <i>Environmental Science & Technology</i> , 2008, 42, 884-889.	10.0	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.	4.1	103
69	Radionuclide migration in groundwaters: Review of the behaviour of actinides (Technical Report). <i>Pure and Applied Chemistry</i> , 1993, 65, 1081-1102.	1.9	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.	4.1	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.	4.1	101
72	Characterization of Atmospheric Aerosols at a Forested Site in Central Europe. <i>Environmental Science & Technology</i> , 2009, 43, 4665-4671.	10.0	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.	4.1	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.	3.8	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.	4.1	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.	7.5	97
77	The role of iron and black carbon in aerosol light absorption. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3623-3637.	4.9	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.	3.2	94
80	PIXE analysis of aerosol samples collected over the atlantic ocean from a sailboat. <i>Nuclear Instruments & 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 & Technology</i> , 1999, 33, 496-502.	10.0	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.	4.1	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.	4.9	90
84	Mass spectrometric characterization of isomeric terpenoic acids from the oxidation of α -pinene, β -pinene, α -limonene, and β -carene in fine forest aerosol. <i>Journal of Mass Spectrometry</i> , 2011, 46, 425-442.	1.6	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.	3.1	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.	4.1	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.	3.8	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 & Technology</i> , 2013, 47, 4069-4079.	10.0	85
92	Particle-induced x-ray emission (PIXE) analysis of biological materials: Precision, accuracy and application to cancer tissues. <i>Nuclear Instruments & Methods</i> , 1980, 168, 557-562.	1.2	82
93	Determination of isoprene and α -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.	3.8	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.	4.9	81
95	Carbonaceous aerosol characterization in the Amazon basin, Brazil: novel dicarboxylic acids and related compounds. <i>Atmospheric Environment</i> , 2000, 34, 5037-5051.	4.1	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.	3.3	80
97	Fine and coarse aerosol composition from a rural area in north China. <i>Atmospheric Environment</i> , 1981, 15, 933-937.	1.0	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.	4.1	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.	4.1	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.	3.1	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.	4.1	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.	4.9	74
103	Instrumental neutron activation analysis of dry atmospheric fall-out and rain-water. <i>Analytica Chimica Acta</i> , 1978, 100, 75-85.	5.4	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.	8.0	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.	10.0	73
107	Urban and rural ultrafine (PM0.1) particles in the Helsinki area. <i>Atmospheric Environment</i> , 2001, 35, 4593-4607.	4.1	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.	4.9	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.	4.9	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.	4.9	68
111	An intercomparison of spectral data processing techniques in PIXE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1986, 14, 204-220.	1.4	67
112	Field Study on Ash Behavior during Circulating Fluidized-Bed Combustion of Biomass. 1. Ash Formation. <i>Energy & Fuels</i> , 1999, 13, 379-389.	5.1	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.	4.1	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.	4.1	65
116	Field Study on Ash Behavior during Circulating Fluidized-Bed Combustion of Biomass. 2. Ash Deposition and Alkali Vapor Condensation. <i>Energy & Fuels</i> , 1999, 13, 390-395.	5.1	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.	4.1	64
118	Comparative study of elemental mass size distributions in urban atmospheric aerosol. <i>Journal of Aerosol Science</i> , 2002, 33, 339-356.	3.8	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.	8.0	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.	1.5	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.	1.0	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.	4.1	56
126	Selenium, zinc, and copper changes with valproic acid. <i>Neurology</i> , 1984, 34, 1393-1393.	1.1	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.	4.1	55
129	Chemical composition and mass closure for PM _{2.5} and PM ₁₀ aerosols at K��puszta, Hungary, in summer 2006. X-Ray Spectrometry, 2008, 37, 193-197.	1.4	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.	4.1	54
132	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
133	Levels and sources of hourly PM _{2.5} -related elements during the control period of the COVID-19 pandemic at a rural site between Beijing and Tianjin. Science of the Total Environment, 2020, 744, 140840.	8.0	54
134	ASH formation mechanisms during combustion of wood in circulating fluidized beds. Proceedings of the Combustion Institute, 2000, 28, 2287-2295.	3.9	53
135	Sources of optically active aerosol particles over the Amazon forest. Atmospheric Environment, 2004, 38, 1039-1051.	4.1	53
136	Local and regional contributions to the atmospheric aerosol over Tel Aviv, Israel: a case study using elemental, ionic and organic tracers. Atmospheric Environment, 2004, 38, 1593-1604.	4.1	53
137	Accurate Analytic Fitting of Pixe Spectra. Bulletin Des Soci��t��s Chimiques Belges, 1986, 95, 407-418.	0.0	53
138	In-canopy gradients, composition, sources, and optical properties of aerosol over the Amazon forest. Journal of Geophysical Research, 2003, 108, .	3.3	52
139	Composition and sources of carbonaceous aerosols in Northern Europe during winter. Atmospheric Environment, 2018, 173, 127-141.	4.1	52
140	Long-term atmospheric aerosol study at urban and rural sites in Belgium using multi-elemental analysis by particle-induced x-ray emission spectrometry and short-irradiation instrumental neutron activation analysis. , 1998, 27, 236-246.		51
141	Characterization of individual particles in the antwerp aerosol. Atmospheric Environment, 1989, 23, 1139-1151.	1.0	50
142	Trace elements and individual particle analysis of atmospheric aerosols from the Antarctic peninsula. Tellus, Series B: Chemical and Physical Meteorology, 1992, 44, 318-334.	1.6	50
143	Characterisation of PM ₁₀ atmospheric aerosols for the wet season 2005 at two sites in East Africa. Atmospheric Environment, 2009, 43, 631-639.	4.1	50
144	Seasonal variation of PM ₁₀ main constituents in two valleys of the French Alps. I: EC/OC fractions. Atmospheric Chemistry and Physics, 2007, 7, 661-675.	4.9	49

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145	Overview of the atmospheric research program during the International Arctic Ocean Expedition of 1991 (IAOE-91) and its scientific results. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996, 48, 136-155.	1.6	48
146	Use of atmospheric elemental size distributions in estimating aerosol sources in the Helsinki area. <i>Atmospheric Environment</i> , 2001, 35, 5537-5551.	4.1	48
147	Characterization and diurnal variation of size-resolved inorganic water-soluble ions at a rural background site. <i>Journal of Environmental Monitoring</i> , 2006, 8, 300.	2.1	48
148	Characteristics and Sources of Hourly Trace Elements in Airborne Fine Particles in Urban Beijing, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11595-11613.	3.3	48
149	Earth, Wind, Fire, and Pollution: Aerosol Nutrient Sources and Impacts on Ocean Biogeochemistry. <i>Annual Review of Marine Science</i> , 2022, 14, 303-330.	11.6	48
150	Regional distribution of potassium, calcium, and six trace elements in normal human brain. <i>Neurochemical Research</i> , 1989, 14, 1099-1112.	3.3	47
151	Aerosol and bulk deposition trends in the 1990's, Eastern Erzgebirge, Central Europe. <i>Atmospheric Environment</i> , 2000, 34, 3213-3221.	4.1	47
152	Radionuclides in the south pole atmosphere. <i>Journal of Geophysical Research</i> , 1979, 84, 3131-3138.	3.3	45
153	SEM-EDX Characterisation of Tropospheric Aerosols in the Negev Desert (Israel). <i>Journal of Atmospheric Chemistry</i> , 2003, 44, 299-322.	3.2	45
154	Fine structure of mass size distributions in an urban environment. <i>Atmospheric Environment</i> , 2005, 39, 5363-5374.	4.1	45
155	Chemical composition and mass closure for fine and coarse aerosols at a kerbside in Budapest, Hungary, in spring 2002. <i>X-Ray Spectrometry</i> , 2005, 34, 290-296.	1.4	45
156	The chemical composition of tropospheric aerosols and their contributing sources to a continental background site in northern Zimbabwe from 1994 to 2000. <i>Atmospheric Environment</i> , 2007, 41, 2644-2659.	4.1	45
157	Characterization of Polar Organosulfates in Secondary Organic Aerosol from the Green Leaf Volatile 3-hexenal. <i>Environmental Science & Technology</i> , 2014, 48, 12671-12678.	10.0	45
158	Sources of the PM10 aerosol in Flanders, Belgium, and re-assessment of the contribution from wood burning. <i>Science of the Total Environment</i> , 2016, 562, 550-560.	8.0	44
159	Interrelationships between aerosol characteristics and light scattering during late winter in an Eastern Mediterranean arid environment. <i>Journal of Geophysical Research</i> , 1999, 104, 24371-24393.	3.3	43
160	Source apportionment of carbonaceous chemical species to fossil fuel combustion, biomass burning and biogenic emissions by a coupled radiocarbon-levoglucosan marker method. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13767-13781.	4.9	43
161	Two-year study of atmospheric aerosols in Alta Floresta, Brazil: Multielemental composition and source apportionment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 189, 243-248.	1.4	41
162	Characterization of polar organosulfates in secondary organic aerosol from the unsaturated aldehydes 2-pentenal, 2-hexenal, and 3-hexenal. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7135-7148.	4.9	41

#	ARTICLE	IF	CITATIONS
163	Variance analysis of error in selected ion monitoring assays using various internal standards. A practical study case. <i>Biological Mass Spectrometry</i> , 1977, 4, 122-128.	0.5	40
164	Biomass burning signatures in the atmosphere of central Greenland. <i>Journal of Geophysical Research</i> , 1998, 103, 31067-31078.	3.3	40
165	Brain trace elements and aging. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 150, 208-213.	1.4	40
166	Chemical evidence of long-range atmospheric transport over southern Africa. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 7-1.	3.3	39
167	Trace elements and individual particle analysis of atmospheric aerosols from the Antarctic peninsula. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992, 44, 318-334.	1.6	38
168	Comparison of different sample and target preparation procedures for PIXE analysis of biological materials. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1984, 3, 135-140.	1.4	37
169	Aerosol chemical mass closure during the EUROTRAC-2 AEROSOL Intercomparison 2000. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 189, 233-237.	1.4	37
170	The acid effect in the formation of 2-methyltetrols from the photooxidation of isoprene in the presence of NO _x . <i>Atmospheric Research</i> , 2010, 98, 183-189.	4.1	37
171	Stable isotopes measurements reveal dual carbon pools contributing to organic matter enrichment in marine aerosol. <i>Scientific Reports</i> , 2016, 6, 36675.	3.3	37
172	Sources and characteristics of the atmospheric aerosol near Damascus, Syria. <i>Atmospheric Environment Part A General Topics</i> , 1990, 24, 1083-1093.	1.3	36
173	One-year aerosol characterization study for PM _{2.5} and PM ₁₀ in Beijing. <i>Atmospheric Pollution Research</i> , 2014, 5, 554-562.	3.8	35
174	High-molecular-weight esters in α -pinene ozonolysis secondary organic aerosol: structural characterization and mechanistic proposal for their formation from highly oxygenated molecules. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8453-8467.	4.9	35
175	Seawater and nonseawater aerosol components in the marine atmosphere of Samoa. <i>Journal of Geophysical Research</i> , 1981, 86, 3187-3193.	3.3	34
176	Modelling of long-range transport of trace elements. A case study. <i>Atmospheric Environment</i> , 1989, 23, 107-114.	1.0	34
177	Elemental Composition of Mineral Aerosol Generated from Sudan Sahara Sand. <i>Journal of Atmospheric Chemistry</i> , 2001, 40, 247-273.	3.2	34
178	Chemical composition of atmospheric aerosol in the European subarctic: Contribution of the Kola Peninsula smelter areas, central Europe, and the Arctic Ocean. <i>Journal of Geophysical Research</i> , 1999, 104, 23681-23696.	3.3	32
179	Characterisation of Amazon Basin aerosols at the individual particle level by X-ray microanalytical techniques. <i>Atmospheric Environment</i> , 2007, 41, 9217-9230.	4.1	32
180	Temporal trend in anthropogenic sulfur aerosol transport from central and eastern Europe to Israel. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	32

#	ARTICLE	IF	CITATIONS
181	2-Hydroxyterpenylic Acid: An Oxygenated Marker Compound for α -Pinene Secondary Organic Aerosol in Ambient Fine Aerosol. <i>Environmental Science & Technology</i> , 2014, 48, 4901-4908.	10.0	32
182	Recent advances in nuclear and atomic spectrometric techniques for trace element analysis. A new look at the position of PIXE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1990, 49, 518-532.	1.4	31
183	Experimental test of charge conservation and the stability of the electron. <i>Physical Review D</i> , 1975, 12, 2582-2586.	4.7	30
184	Sources and physico-chemical characteristics of the atmospheric aerosol in Southern Norway. <i>Atmospheric Environment</i> , 1996, 30, 1391-1405.	4.1	30
185	Clues for a standardised thermal-optical protocol for the assessment of organic and elemental carbon within ambient air particulate matter. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1649-1661.	3.1	28
186	Application of PIXE analysis to the study of the regional distribution of trace elements in normal human brain. <i>Biological Trace Element Research</i> , 1987, 13, 1-17.	3.5	27
187	Long range transport and deposition of mineral matter as a source for base cations. <i>Water, Air, and Soil Pollution</i> , 1995, 85, 1933-1940.	2.4	27
188	Aerosol composition at Chacaltaya, Bolivia, as determined by size-fractionated sampling. <i>Atmospheric Environment</i> , 1983, 17, 1521-1536.	1.0	26
189	Applications of ion beam analysis in biology and medicine, a review. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1988, 35, 388-403.	1.4	26
190	Atmospheric concentrations and size distributions of aircraft-sampled Cd, Cu, Pb and Zn over the southern bight of the North Sea. <i>Atmospheric Environment Part A General Topics</i> , 1992, 26, 2499-2508.	1.3	26
191	Ash Vaporization in Circulating Fluidized Bed Coal Combustion. <i>Aerosol Science and Technology</i> , 1996, 24, 135-150.	3.1	26
192	Overview of the atmospheric research program during the International Arctic Ocean Expedition of 1991 (IAOE-91) and its scientific results. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 48, 136.	1.6	26
193	Modal structure of chemical mass size distribution in the high Arctic aerosol. <i>Journal of Geophysical Research</i> , 2001, 106, 27555-27571.	3.3	26
194	INTERCOMP2000, a campaign to assess the comparability of methods in use in Europe for measuring aerosol composition. <i>Atmospheric Environment</i> , 2004, 38, 6459-6466.	4.1	26
195	Detailed mass size distributions of elements and species, and aerosol chemical mass closure during fall 1999 at Gent, Belgium. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 189, 238-242.	1.4	25
196	Evaluation of the carbon content of aerosols from the burning of biomass in the Brazilian Amazon using thermal, optical and thermal-optical analysis methods. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4425-4444.	4.9	25
197	PIXE analysis of marine aerosol samples: Accuracy and artifacts. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987, 22, 248-253.	1.4	24
198	Combined application of INAA and PIXE for studying the regional aerosol composition in Southern Africa. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1997, 216, 143-148.	1.5	24

#	ARTICLE	IF	CITATIONS
199	Aerosol-soil fractionation for Namib Desert samples. Atmospheric Environment Part A General Topics, 1993, 27, 669-678.	1.3	23
200	Size distributions and modal parameters of aerosol constituents in northern Finland during the European Arctic Aerosol Study. Journal of Geophysical Research, 2002, 107, AAC 4-1.	3.3	23
201	Characteristics of carbonaceous aerosols in ambient PM10 and PM2.5 particles in Dar es Salaam, Tanzania. Science of the Total Environment, 2010, 408, 1308-1314.	8.0	23
202	Applicability of PIXE to the analysis of biological reference materials. Fresenius Zeitschrift für Analytische Chemie, 1987, 326, 736-738.	0.8	22
203	Impact of phase out of leaded gasoline on the air quality in Budapest. Microchemical Journal, 2000, 67, 127-133.	4.5	22
204	Study of the atmospheric aerosol composition in equatorial Africa using PIXE as analytical technique. Nuclear Instruments & Methods in Physics Research B, 1987, 22, 254-258.	1.4	21
205	Mass size distribution of carbon in atmospheric humic-like substances and water soluble organic carbon for an urban environment. Journal of Aerosol Science, 2013, 56, 53-60.	3.8	21
206	Present role of PIXE in atmospheric aerosol research. Nuclear Instruments & Methods in Physics Research B, 2015, 363, 86-91.	1.4	21
207	Physicochemical characterization of winter PM10 aerosol impacted by sugarcane burning from São Paulo city, Brazil. Atmospheric Environment, 2016, 145, 272-279.	4.1	21
208	Applications of PIXE to biological and biomedical samples at the university of gent. Nuclear Instruments & Methods in Physics Research B, 1987, 22, 138-144.	1.4	20
209	Trace element concentrations and size distribution of biogenic aerosols from the amazon basin during the wet season. Nuclear Instruments & Methods in Physics Research B, 1990, 49, 366-371.	1.4	20
210	Trace elements and receptor modelling of aerosols in the antarctic peninsula. Nuclear Instruments & Methods in Physics Research B, 1990, 49, 383-387.	1.4	20
211	Size-fractionated aerosol composition at Gent, Belgium. Results from a one-year study. Nuclear Instruments & Methods in Physics Research B, 1996, 109-110, 476-481.	1.4	20
212	Multi-elemental composition and sources of the high Arctic atmospheric aerosol during summer and autumn. Tellus, Series B: Chemical and Physical Meteorology, 1996, 48, 300-321.	1.6	20
213	Detailed mass size distributions of atmospheric aerosol species in the Negev desert, Israel, during ARACHNE-96. Nuclear Instruments & Methods in Physics Research B, 1999, 150, 422-427.	1.4	20
214	INTERCOMP2000: ionic constitution and comparison of filter and impactor. Atmospheric Environment, 2004, 38, 6477-6486.	4.1	20
215	Chemical composition, impact from biomass burning, and mass closure for PM _{2.5} and PM ₁₀ aerosols at Hyytiälä, Finland, in summer 2007. X-Ray Spectrometry, 2011, 40, 168-171.	1.4	20
216	Mass and chemically speciated size distribution of Prague aerosol using an aerosol dryer – The influence of air mass origin. Science of the Total Environment, 2012, 437, 348-362.	8.0	20

#	ARTICLE	IF	CITATIONS
217	Interference by second order reactions in activation analysis. <i>Journal of Radioanalytical Chemistry</i> , 1970, 5, 115-121.	0.5	19
218	Multi-elemental composition and sources of the high Arctic atmospheric aerosol during summer and autumn. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 48, 300.	1.6	19
219	Interferences in the determination of trace elements in high-purity tin. <i>Journal of Radioanalytical Chemistry</i> , 1973, 16, 39-55.	0.5	18
220	Simple nitric acid dissolution method for electrothermal atomic absorption spectrometric analysis of atmospheric aerosol samples collected by a berner-type low-pressure impactor. <i>Journal of Analytical Atomic Spectrometry</i> , 1993, 8, 79.	3.0	18
221	Br, Rb, Zn, Fe, Se and K in Blood of Colorectal Patients by INAA and PIXE. <i>Journal of Trace Elements in Medicine and Biology</i> , 1995, 9, 193-199.	3.0	18
222	Intercomparison of elemental concentrations in total and size-fractionated aerosol samples collected during the mace head experiment, April 1991. <i>Atmospheric Environment</i> , 1995, 29, 837-849.	4.1	18
223	Role of aerosol size and composition in nucleation scavenging within clouds in a shallow cold front. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	18
224	Annular diffusion denuder for simultaneous removal of gaseous organic compounds and air oxidants during sampling of carbonaceous aerosols. <i>Analytica Chimica Acta</i> , 2012, 714, 68-75.	5.4	18
225	Applicability of microwave acid digestion to sample preparation of biological materials for analysis by particle-induced X-ray emission (PIXE). <i>Biological Trace Element Research</i> , 1990, 26-27, 589-597.	3.5	17
226	Atmospheric aerosol studies in southern Norway using size-fractionating sampling devices and nuclear analytical techniques. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1993, 167, 271-281.	1.5	17
227	Composition and sources of aerosol in a central African rain forest during the dry season. <i>Journal of Geophysical Research</i> , 2001, 106, 14423-14434.	3.3	17
228	Long-term observations of regional aerosol composition at two sites in Indonesia. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 189, 259-265.	1.4	17
229	Comparison of Heated Electrospray Ionization and Nanoelectrospray Ionization Sources Coupled to Ultra-High-Resolution Mass Spectrometry for Analysis of Highly Complex Atmospheric Aerosol Samples. <i>Analytical Chemistry</i> , 2020, 92, 8396-8403.	6.5	17
230	The determination of trace elements in commercial human serum albumin solutions by proton-induction x-ray emission spectrometry and neutron activation analysis. <i>Analytica Chimica Acta</i> , 1982, 136, 301-309.	5.4	16
231	Evaluation of pixe-induced XRF for the analysis of steels and biological samples: comparison with tube-excited XRF. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1984, 3, 253-258.	1.4	16
232	Analytical Techniques for Atmospheric Trace Elements. , 1989, , 259-301.		16
233	Application of principal component and cluster analysis to the study of the distribution of minor and trace elements in normal human brain. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1990, 9, 273-286.	3.5	15
234	PIXE analysis of cascade impactor samples collected at the Kruger National Park, South Africa. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1994, 85, 849-855.	1.4	15

#	ARTICLE	IF	CITATIONS
235	Characteristics of Size-Fractionated Urban Aerosols and Trace Gases in Budapest. <i>Microchemical Journal</i> , 1998, 58, 291-305.	4.5	15
236	Aerosol composition at Jabiru, Australia, and impact of biomass burning. <i>Journal of Aerosol Science</i> , 2000, 31, 745-746.	3.8	15
237	Determination of trace impurities in tin by neutron activation analysis. <i>Journal of Radioanalytical Chemistry</i> , 1970, 6, 83-95.	0.5	14
238	Trace elements in head hair of hemodialysis patients. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1984, 86, 209-219.	1.5	14
239	Sources and composition of aerosol from Khartoum, Sudan. <i>Atmospheric Environment Part B Urban Atmosphere</i> , 1993, 27, 67-76.	0.5	14
240	Contamination of arctic air at three sites during a haze event in late winter 1986. <i>Atmospheric Environment Part A General Topics</i> , 1993, 27, 2999-3010.	1.3	14
241	Chemical composition and light scattering of the atmospheric aerosol at a remote site in the Negev Desert, Israel. <i>Journal of Aerosol Science</i> , 1997, 28, S73-S74.	3.8	14
242	Analysis of Skeleton Remains, Ascribed to Mary of Burgundy, and of Soil Samples, Recovered from the Central Tomb of the Church of Our Lady, Bruges. <i>Bulletin Des Sociétés Chimiques Belges</i> , 1981, 90, 1115-1125.	0.0	14
243	Trace Element Analysis of Biological Materials : Complementarity of PIXE and NAA. <i>IEEE Transactions on Nuclear Science</i> , 1981, 28, 1386-1391.	2.0	13
244	Characterisation of implanted and evaporated layers by RBS analysis. <i>Nuclear Instruments & Methods in Physics Research</i> , 1982, 197, 51-57.	0.9	13
245	Evaluation of the applicability of the MOUDI impactor for aerosol collections with subsequent multielement analysis by PIXE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 75, 249-256.	1.4	13
246	Receptor modeling for inhalable atmospheric particles in Sao Paulo, Brazil. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 75, 308-311.	1.4	13
247	Size distributions of atmospheric trace elements at dye 3, Greenland. Sources and transport. <i>Atmospheric Environment Part A General Topics</i> , 1993, 27, 2803-2814.	1.3	13
248	The physicochemical structure of the Greenland summer aerosol and its relation to atmospheric processes. <i>Journal of Geophysical Research</i> , 1998, 103, 5661-5670.	3.3	13
249	Three years of measurements of light-absorbing aerosols over coastal Namibia: seasonality, origin, and transport. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17003-17016.	4.9	13
250	Particle-induced x-ray emission spectrometry: an accurate technique in the analysis of biological environmental and geological samples. <i>Analytica Chimica Acta</i> , 1987, 195, 125-140.	5.4	12
251	Study of some analytical-methodological aspects in nuclear microprobe analysis of soft biological tissues. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 104, 328-332.	1.4	12
252	Anthropogenic and natural radiatively active aerosol types at Sede Boker, Israel. <i>Journal of Aerosol Science</i> , 1996, 27, S47-S48.	3.8	12

#	ARTICLE	IF	CITATIONS
253	Long-term aerosol composition measurements and source apportionment at Rukomechi, Zimbabwe. <i>Journal of Aerosol Science</i> , 2000, 31, 228-229.	3.8	12
254	Chemical composition and mass closure for PM ₁₀ aerosols during the 2005 dry season at a rural site in Morogoro, Tanzania. <i>X-Ray Spectrometry</i> , 2009, 38, 293-300.	1.4	12
255	Seasonal variation of water-soluble inorganic species in the coarse and fine atmospheric aerosols at Dar es Salaam, Tanzania. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 2897-2902.	1.4	12
256	Analysis of atmospheric aerosols by particle-induced X-ray emission, instrumental neutron activation analysis, and ion chromatography. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 2693-2698.	1.4	12
257	Anthropogenic Perturbations to the Atmospheric Molybdenum Cycle. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006787.	4.9	12
258	Determination of trace impurities in tin by neutron activation analysis. <i>Journal of Radioanalytical Chemistry</i> , 1971, 9, 27-38.	0.5	11
259	PIXE analysis of cascade impactor samples collected over the Pacific. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1984, 3, 446-450.	1.4	11
260	A field study on the trace metal behaviour in atmospheric circulating fluidized-bed coal combustion. <i>Proceedings of the Combustion Institute</i> , 1994, 25, 201-209.	0.3	11
261	Geochemical fluxes in forested acidified catchments. <i>Water, Air, and Soil Pollution</i> , 1995, 85, 859-864.	2.4	11
262	Energy-dispersive X-ray fluorescence spectrometer with capillary optics for the chemical analysis of atmospheric aerosols with high time resolution. <i>Journal of Aerosol Science</i> , 1997, 28, 1455-1463.	3.8	11
263	Comparison between levels of trace elements in normal and cancer inoculated mice by XRF and PIXE. <i>Biological Trace Element Research</i> , 1998, 61, 169-180.	3.5	11
264	Monitoring of atmospheric aerosol particles on the Antarctic Peninsula. <i>Annals of Glaciology</i> , 1998, 27, 560-564.	1.4	11
265	A comparative study of traffic related air pollution next to a motorway and a motorway flyover. <i>Atmospheric Environment</i> , 2012, 60, 132-141.	4.1	11
266	Structural Characterization of Lactone-Containing MW 212 Organosulfates Originating from Isoprene Oxidation in Ambient Fine Aerosol. <i>Environmental Science & Technology</i> , 2020, 54, 1415-1424.	10.0	11
267	Examination of the regional distribution of minor and trace elements in normal human brain by PIXE and chemometric techniques. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 75, 180-187.	1.4	10
268	Study of size-fractionated coal-combustion aerosols using instrumental neutron activation analysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1993, 167, 259-269.	1.5	10
269	Nuclear microprobe analysis of atmospheric aerosol samples: Comparison with bulk measurements and analyses of individual particles. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997, 130, 576-581.	1.4	10
270	New Directions: Future needs for global monitoring and research of aerosol chemical composition. <i>Atmospheric Environment</i> , 2008, 42, 1070-1072.	4.1	10

#	ARTICLE	IF	CITATIONS
271	Aerosol Inorganic Composition at a Tropical Site: Discrepancies Between Filter-Based Sampling and a Semi-Continuous Method. <i>Aerosol Science and Technology</i> , 2008, 42, 255-269.	3.1	10
272	Determination of thermal and epithermal neutron fluxes with a single flux monitor. <i>Journal of Radioanalytical Chemistry</i> , 1971, 9, 325-328.	0.5	9
273	Determination of trace impurities in tin by neutron activation analysis. <i>Journal of Radioanalytical Chemistry</i> , 1973, 14, 295-316.	0.5	9
274	Determination of 17 trace elements in gallium arsenide by reactor neutron activation analysis. <i>Analytica Chimica Acta</i> , 1975, 75, 31-39.	5.4	9
275	Hygroscopic growth of atmospheric aerosol sampled in Prague 2008 using humidity controlled inlets. <i>Atmospheric Research</i> , 2010, 98, 237-248.	4.1	9
276	PIXE analysis of size-fractionated aerosol samples collected at birkenes, Norway, during spring 1987. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1990, 49, 376-382.	1.4	8
277	Study of the respirable immission levels for a cyclist in Brussels' traffic using PIXE as analytical technique. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1990, 49, 406-413.	1.4	8
278	Elemental composition of aircraft-sampled aerosols above the southern bight of the North Sea. <i>Water, Air, and Soil Pollution</i> , 1993, 71, 391-404.	2.4	8
279	Analysis of size-fractionated coal combustion aerosols by PIXE and other analytical techniques. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 75, 266-272.	1.4	8
280	Carbonaceous aerosols and particulate organic compounds in Gent, Belgium, during winter and summer of 1998. <i>Journal of Aerosol Science</i> , 1999, 30, S905-S906.	3.8	8
281	Characterization of novel di- and tricarboxylic acids in fine tropical aerosols. <i>Journal of Mass Spectrometry</i> , 2001, 36, 403-416.	1.6	8
282	Tracers for Biogenic Secondary Organic Aerosol from α -Pinene and Related Monoterpenes: An Overview. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2013, , 227-238.	0.2	8
283	Receptor modeling of the Antwerp aerosol. <i>Atmospheric Environment Part B Urban Atmosphere</i> , 1990, 24, 419-435.	0.5	7
284	PIXE analysis of atmospheric particulate matter in glass fibre filters. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 75, 262-265.	1.4	7
285	Effect of neurotrophin on cerebral edema, calcium and other elements in mice subarachnoidally injected with carrageenan. <i>European Journal of Pharmacology</i> , 1995, 274, 95-99.	3.5	7
286	Mass size distributions for atmospheric trace elements at the Zeppelin background station in Ny Å..lesund, Spitsbergen. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 109-110, 465-470.	1.4	7
287	Size-fractionated aerosol composition during an intensive 1997 summer field campaign in northern Finland. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 150, 345-349.	1.4	7
288	Study of elemental mass size distributions at Skukuza, South Africa, during the SAFARI 2000 dry season campaign. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 189, 254-258.	1.4	7

#	ARTICLE	IF	CITATIONS
289	Analysis of Size-Fractionated Air Particulate Matter by Energy-Dispersive X-Ray Fluorescence Spectrometry. Bulletin Des Sociétés Chimiques Belges, 1981, 90, 305-315.	0.0	7
290	Contribution from Selected Organic Species to PM2.5 Aerosol during a Summer Field Campaign at K-Pusztá, Hungary. Atmosphere, 2017, 8, 221.	2.3	7
291	Secondary Organic Aerosol Formation from Isoprene: Selected Research, Historic Account and State of the Art. Atmosphere, 2021, 12, 728.	2.3	7
292	Average cross-sections for (n, $\hat{1}\pm$) and (n, p) reactions on titanium in a fission-type reactor spectrum. Journal of Radioanalytical Chemistry, 1974, 23, 131-146.	0.5	6
293	Elemental constituents of atmospheric aerosols in Recife, North-East Brazil. Environmental Pollution Series B: Chemical and Physical, 1982, 4, 143-163.	0.7	6
294	PIXE and neurological diseases. Nuclear Instruments & Methods in Physics Research B, 1984, 3, 377-381.	1.4	6
295	In-stack particle size and composition transformations during circulating fluidized bed combustion of willow and forest residue. Nuclear Instruments & Methods in Physics Research B, 1999, 150, 417-421.	1.4	6
296	Characterization of carbonaceous materials in PM2.5 and PM10 size fractions in Morogoro, Tanzania, during 2006 wet season campaign. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1665-1670.	1.4	6
297	Seasonal Variation of Atmospheric Composition of Water-Soluble Inorganic Species at Rural Background Site in Tanzania, East Africa. Ethiopian Journal of Environmental Studies and Management, 2010, 3, .	0.1	6
298	Ion-pairing liquid chromatography/negative ion mass spectrometry for improved analysis of polar isoprene-related organosulfates. Rapid Communications in Mass Spectrometry, 2013, 27, 1585-1589.	1.5	6
299	Neutron activation analysis of high-purity tin. Analytica Chimica Acta, 1972, 59, 209-215.	5.4	5
300	Determination of copper in high-purity tin by reactor neutron activation analysis. Journal of Radioanalytical Chemistry, 1973, 14, 351-356.	0.5	5
301	Multi-Element Analysis of Small Biological Samples. IEEE Transactions on Nuclear Science, 1983, 30, 1601-1603.	2.0	5
302	Comparison of Trace Element Alterations and Water Content in Haemorrhagic and Non-Haemorrhagic Cerebral Infarcts. Cerebrovascular Diseases, 1994, 4, 412-416.	1.7	5
303	Global Change-related and other atmospheric aerosol research at the university of Gent, and the role of PIXE therein. Nuclear Instruments & Methods in Physics Research B, 1996, 109-110, 419-428.	1.4	5
304	Five-year study of the atmospheric aerosol composition, sources and chemical mass closure at two sites in southern Norway. Journal of Aerosol Science, 2000, 31, 180-181.	3.8	5
305	Formation of secondary organic aerosol marker compounds from the photooxidation of isoprene and isoprene-derived alkene diols under low-NOx conditions. Faraday Discussions, 2013, 165, 261.	3.2	5
306	Multielement analysis of biological materials by particle-induced X-ray emission (PIXE). Scanning Microscopy, 1990, 4, 43-59; discussion 59-62.	0.3	5

#	ARTICLE	IF	CITATIONS
307	Instrumental neutron activation analysis of germanium. <i>Analytica Chimica Acta</i> , 1972, 61, 127-131.	5.4	4
308	A proposed radiochemical approach to the nucleon lifetime. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica</i> , 1976, 15, 93-96.	0.4	4
309	Application of PIXE Analysis to Neurological Diseases. <i>IEEE Transactions on Nuclear Science</i> , 1983, 30, 1319-1322.	2.0	4
310	Brain trace element alterations in atherosclerosis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1990, 49, 191-194.	1.4	4
311	Size-differentiated composition of aerosol in Khartoum, Sudan. <i>Science of the Total Environment</i> , 1992, 120, 281-299.	8.0	4
312	Influence of Neurotrophin on the Water Content and Regional Distribution of Two Minor and Six Trace Elements in Human Brains Affected by Recent Middle Cerebral Artery Infarcts. <i>Cerebrovascular Diseases</i> , 1993, 3, 94-98.	1.7	4
313	Nuclear microprobe analysis of brain tissue: Quantitative aspects and concentration variability of minor and trace elements. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997, 130, 444-448.	1.4	4
314	The influence of meteorological parameters on short range transport of aerosols. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 150, 403-408.	1.4	4
315	Size and chemical characterization of atmospheric aerosol and savanna fire samples in Southern Africa. <i>Journal of Aerosol Science</i> , 2000, 31, 186-187.	3.8	4
316	Source apportionment revisited for long-term measurements of fine aerosol trace elements at two locations in southern Norway. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 417, 133-138.	1.4	4
317	Trace element changes in cardiovascular diseases. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 75, 160-164.	1.4	3
318	INVESTIGATIONS DURING SUMMER FIELD CAMPAIGNS IN CENTRAL EUROPE ON THE PERFORMANCE OF A DIFFUSION DENUDER FOR THE ELIMINATION OF SAMPLING ARTIFACTS FOR CARBONACEOUS AEROSOLS. <i>Journal of Aerosol Science</i> , 2004, 35, S1069-S1070.	3.8	3
319	Ten-year study of fine aerosol at Sde Boker, Israel, using PIXE: Time trends, seasonal variation, correlations, and source areas for anthropogenic elements. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 318, 119-124.	1.4	3
320	X-Ray Fluorescence and Emission Particle-Induced X-Ray Emission μ XRF, 2017, .		3
321	Source apportionment of ambient fine and coarse aerosols in Embalenhle and Kinross, South Africa. <i>Clean Air Journal</i> , 2021, 31, .	0.5	3
322	Aerosols from circulating fluidized bed coal combustion. <i>Journal of Aerosol Science</i> , 1991, 22, S467-S470.	3.8	2
323	Mass balance of atmospheric fine particles in the Helsinki area. <i>Journal of Aerosol Science</i> , 1999, 30, S275-S276.	3.8	2
324	On source apportionment of the fine aerosol: Experience at the University of Gent. <i>Journal of Aerosol Science</i> , 2000, 31, 104-105.	3.8	2

#	ARTICLE	IF	CITATIONS
325	Elemental size distributions in the urban atmospheric aerosol. <i>Journal of Aerosol Science</i> , 2000, 31, 747-748.	3.8	2
326	Applicability of Microwave Acid Digestion to Sample Preparation of Biological Materials for Analysis by Particle-Induced X-Ray Emission (PIXE). , 1990, , 589-597.		2
327	High-precision energy-dispersive x-ray fluorescence analysis of manganese in ferromanganese. <i>Analytica Chimica Acta</i> , 1975, 76, 37-46.	5.4	1
328	PIXE analysis of trace metals in selenium and copper deficient mice exposed to influenza virus and salicylate. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987, 22, 217-222.	1.4	1
329	Aerosol-soil fractionation for Namib desert samples. <i>Journal of Aerosol Science</i> , 1992, 23, 983-986.	3.8	1
330	Concentrations and mass size distributions of particulate trace elements at summit, Greenland: Impact of boreal forest fires. <i>Journal of Aerosol Science</i> , 1997, 28, S565-S566.	3.8	1
331	Multi-elemental composition and sources of size-fractionated aerosols in Budapest. <i>Journal of Aerosol Science</i> , 1998, 29, S67-S68.	3.8	1
332	Inorganic composition and sources of aerosols in a Central African rainforest during the dry season. <i>Journal of Aerosol Science</i> , 1998, 29, S727-S728.	3.8	1
333	Micro-characterisation of tropospheric aerosols from the Negev Desert, Israel. <i>Journal of Aerosol Science</i> , 2000, 31, 344-345.	3.8	1
334	Fly Ash Deposition Onto the Convective Heat Exchangers During Combustion of Willow in a Circulating Fluidized Bed Boiler. , 2002, , 541-553.		1
335	Single particle characterisation and sources of tropospheric aerosols in the Negev desert (Israel). <i>European Physical Journal Special Topics</i> , 2002, 12, 161-183.	0.2	1
336	CHEMICAL COMPOSITION AND MASS CLOSURE OF THE ATMOSPHERIC AEROSOL AT K-PUSZTA, HUNGARY, IN SUMMER 2003. <i>Journal of Aerosol Science</i> , 2004, 35, S799-S800.	3.8	1
337	TWO-YEAR STUDY OF ATMOSPHERIC AEROSOLS IN ALTA FLORESTA, BRAZIL: MULTIELEMENTAL COMPOSITION, SOURCES AND SOURCE APPORTIONMENT. <i>Journal of Aerosol Science</i> , 2001, 32, 469-470.	3.8	1
338	Average cross-sections for (n, p) reactions on calcium in a fission-type reactor spectrum. <i>Journal of Radioanalytical Chemistry</i> , 1974, 23, 101-112.	0.5	0
339	Average cross-sections for (n, p) and (n, $\hat{\pm}$) reactions on ^{19}F and ^{23}Na in a fission neutron spectrum. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1979, 41, 445-451.	0.5	0
340	46 O 02 Experimental study on the enrichment of trace elements in submicron particles in coal CFBC. <i>Journal of Aerosol Science</i> , 1993, 24, S589-S590.	3.8	0
341	Detailed mass size distributions of particulate trace elements at Summit, Greenland. <i>Journal of Aerosol Science</i> , 1996, 27, S49-S50.	3.8	0
342	The relative size distributions (RSD) method for revealing aerosol sources. <i>Journal of Aerosol Science</i> , 1996, 27, S85-S86.	3.8	0

#	ARTICLE	IF	CITATIONS
343	Identification of particle classes in African savanna fire samples based on epma data. Journal of Aerosol Science, 1998, 29, S227-S228.	3.8	0
344	TRACE ELEMENT ALTERATIONS ASSOCIATED WITH PUTAMINOCAPSULAR HEMORRHAGES IN THE HUMAN BRAIN. International Journal of PIXE, 1999, 09, 271-278.	0.4	0
345	FINE STRUCTURE OF ELEMENTAL AND AEROSOL MASS SIZE DISTRIBUTIONS IN URBAN ENVIRONMENT. Journal of Aerosol Science, 2004, 35, S787-S788.	3.8	0
346	DETAILED SIZE DISTRIBUTION OF THE PARTICULATE MASS AND OVER 20 ELEMENTS IN RONDÃ”NIA, BRAZIL, DURING SEPTEMBER-NOVEMBER 2002. Journal of Aerosol Science, 2004, 35, S1067-S1068.	3.8	0
347	X-RAY FLUORESCENCE AND EMISSION Particle-Induced X-Ray Emission. , 2005, , 448-458.		0
348	Elemental Composition and Sources of Atmospheric Particulate Matter in Dar es Salaam, Tanzania. Ethiopian Journal of Environmental Studies and Management, 2010, 3, .	0.1	0
349	Elemental Composition of Atmospheric Particulate Matter during 2006 Wet Season at a Rural Background Site in Tanzania. Journal of Applied Sciences and Environmental Management, 2011, 14, .	0.1	0
350	Concluding Remarks on the Bio-PIXE 7 symposium. International Journal of PIXE, 2012, 22, ix-x.	0.4	0
351	Elemental Composition and Sources of Atmospheric Aerosols above and around the North Sea. , 2000, , 97-104.		0
352	Chemical Characteristics and Temporal Variation of Size-Fractionated Urban Aerosols and Trace Gases in Budapest. , 2000, , 415-430.		0
353	THE EXPERIMENT “INTERCOMP 2000” IN MELPITZ - AN EUROTRAC-2 ACTIVITY. Journal of Aerosol Science, 2001, 32, 1021-1022.	3.8	0
354	SOURCES OF ATMOSPHERIC COARSE AND FINE PARTICLES IN BUDAPEST. Journal of Aerosol Science, 2001, 32, 769-770.	3.8	0
355	EC/OC at Two Sites in Prague. , 2007, , 824-828.		0
356	PARTICLE-INDUCED X-RAY EMISSION (PIXE) ANALYSIS OF BIOLOGICAL MATERIALS: PRECISION, ACCURACY AND APPLICATION TO CANCER TISSUES. , 1980, , 557-562.		0
357	Research Needs in Understanding Processes of Transformation, and Dry and Wet Deposition of Atmospheric Metals. , 1989, , 355-364.		0
358	Long Range Transport and Deposition of Mineral Matter as a Source for Base Cations. , 1995, , 1933-1940.		0
359	Mass Size Distributions for Atmospheric Particulate Elements at the Zeppelin Background Station in NY Å..lesund. Spitsbergen. , 1996, , 595-599.		0