List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Long-range transport impacts from biomass burning and secondary pollutant sources based on receptor models during KORUS-AQ campaign. Atmospheric Environment, 2022, 276, 119060.	4.1	11
2	Hygroscopic behavior and chemical reactivity of aerosols generated from mixture solutions of low molecular weight dicarboxylic acids and NaCl. Physical Chemistry Chemical Physics, 2021, 23, 11052-11064.	2.8	4
3	Hygroscopic behavior of aerosols generated from solutions of 3-methyl-1,2,3-butanetricarboxylic acid, its sodium salts, and its mixtures with NaCl. Atmospheric Chemistry and Physics, 2020, 20, 14103-14122.	4.9	10
4	Aerosol Hygroscopicity on A Single Particle Level Using Microscopic and Spectroscopic Techniques: A Review. Asian Journal of Atmospheric Environment, 2020, 14, 177-209.	1.1	6
5	Acid solution decreases the compressional wave velocity of sandstone from the Yungang Grottoes, Datong, China. Heritage Science, 2019, 7, .	2.3	19
6	Single-particle characterization of aerosols collected at a remote site in the Amazonian rainforest and an urban site in Manaus, Brazil. Atmospheric Chemistry and Physics, 2019, 19, 1221-1240.	4.9	23
7	Alveolar macrophage reaction to PM2.5 of hazy day in vitro: Evaluation methods and mitochondrial screening to determine mechanisms of biological effect. Ecotoxicology and Environmental Safety, 2019, 174, 566-573.	6.0	6
8	Multi-Modal Compositional Analysis of Layered Paint Chips of Automobiles by the Combined Application of ATR-FTIR Imaging, Raman Microspectrometry, and SEM/EDX. Molecules, 2019, 24, 1381.	3.8	17
9	Single particle mineralogy of microparticles from Himalayan ice-cores using SEM/EDX and ATR-FTIR imaging techniques for identification of volcanic ash signatures. Chemical Geology, 2019, 504, 205-215.	3.3	9
10	Hygroscopic Behavior of Ammonium Sulfate, Ammonium Nitrate, and their Mixture Particles. Asian Journal of Atmospheric Environment, 2019, 13, 196-211.	1.1	15
11	Single-particle analysis of industrial emissions brings new insights for health risk assessment of PM. Atmospheric Pollution Research, 2018, 9, 697-704.	3.8	23
12	Characterization of size-resolved urban haze particles collected in summer and winter at Taiyuan City, China using quantitative electron probe X-ray microanalysis. Atmospheric Research, 2017, 190, 29-42.	4.1	8
13	Real-Time Investigation of Chemical Compositions and Hygroscopic Properties of Aerosols Generated from NaCl and Malonic Acid Mixture Solutions Using in Situ Raman Microspectrometry. Environmental Science & Technology, 2017, 51, 263-270.	10.0	24
14	Relationship between reactive oxygen species and water-soluble organic compounds: Time-resolved benzene carboxylic acids measurement in the coastal area during the KORUS-AQ campaign. Environmental Pollution, 2017, 231, 1-12.	7.5	30
15	Single-particle investigation of summertime and wintertime Antarctic sea spray aerosols using low- <i>Z</i> particle EPMA, Raman microspectrometry, and ATR-FTIR imaging techniques. Atmospheric Chemistry and Physics, 2016, 16, 13823-13836.	4.9	31
16	A review of single aerosol particle studies in the atmosphere of East Asia: morphology, mixing state, source, and heterogeneous reactions. Journal of Cleaner Production, 2016, 112, 1330-1349.	9.3	235
17	Diagnosis of Transboundary Mass Fluxes from Modelled North American Regional Sulphur and Nitrogen Deposition Fields. Springer Proceedings in Complexity, 2016, , 295-300.	0.3	0
18	Hygroscopic behavior of NaCl–MgCl ₂ mixture particles as nascent sea-spray aerosol surrogates and observation of efflorescence during humidification. Atmospheric Chemistry and Physics, 2015, 15, 11273-11290.	4.9	70

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19	The Amazon Tall Tower Observatory (ATTO): overview of pilot measurements on ecosystem ecology, meteorology, trace gases, and aerosols. Atmospheric Chemistry and Physics, 2015, 15, 10723-10776.	4.9	218
20	Hygroscopic properties of NaCl and NaNO ₃ mixture particles as reacted inorganic sea-salt aerosol surrogates. Atmospheric Chemistry and Physics, 2015, 15, 3379-3393.	4.9	55
21	Microscopic Single-Particle Analytical Methods for Aerosol Characterisation. Comprehensive Analytical Chemistry, 2015, , 331-366.	1.3	2
22	Combined use of quantitative ED-EPMA, Raman microspectrometry, and ATR-FTIR imaging techniques for the analysis of individual particles. Analyst, The, 2014, 139, 3949-3960.	3.5	22
23	A global assessment of precipitation chemistry and deposition of sulfur, nitrogen, sea salt, base cations, organic acids, acidity and pH, and phosphorus. Atmospheric Environment, 2014, 93, 3-100.	4.1	650
24	An investigation into the relationship between the major chemical components of particulate matter in urban air. Chemosphere, 2014, 95, 387-394.	8.2	9
25	Influence of Collecting Substrates on the Characterization of Hygroscopic Properties of Inorganic Aerosol Particles. Analytical Chemistry, 2014, 86, 2648-2656.	6.5	38
26	Deliquescence and efflorescence behavior of individual NaCl and KCl mixture aerosol particles. Atmospheric Environment, 2014, 82, 36-43.	4.1	61
27	Investigation of aged aerosols in size-resolved Asian dust storm particles transported from Beijing, China, to Incheon, Korea, using low- <i>Z</i> particle EPMA. Atmospheric Chemistry and Physics, 2014, 14, 3307-3323.	4.9	35
28	Iron Speciation of Airborne Subway Particles by the Combined Use of Energy Dispersive Electron Probe X-ray Microanalysis and Raman Microspectrometry. Analytical Chemistry, 2013, 85, 10424-10431.	6.5	49
29	Investigation of aged Asian dust particles by the combined use of quantitative ED-EPMA and ATR-FTIR imaging. Atmospheric Chemistry and Physics, 2013, 13, 3463-3480.	4.9	32
30	Hygroscopic behavior of wet dispersed and dry deposited NaNO3 particles. Atmospheric Environment, 2012, 60, 68-75.	4.1	21
31	Investigation of the Chemical Mixing State of Individual Asian Dust Particles by the Combined Use of Electron Probe X-ray Microanalysis and Raman Microspectrometry. Analytical Chemistry, 2012, 84, 3145-3154.	6.5	70
32	X-ray Spectrometry. Analytical Chemistry, 2012, 84, 636-668.	6.5	42
33	Assessment of the air quality (NO2, SO2, O3 and particulate matter) in the Plantin-Moretus Museum/Print Room in Antwerp, Belgium, in different seasons of the year. Microchemical Journal, 2012, 102, 49-53.	4.5	37
34	Chemical speciation of size-segregated floor dusts and airborne magnetic particles collected at underground subway stations in Seoul, Korea. Journal of Hazardous Materials, 2012, 213-214, 331-340.	12.4	72
35	Single-particle Characterization of Aerosol Particles Collected Nearby a Lead Smelter in China. Asian Journal of Atmospheric Environment, 2012, 6, 83-95.	1.1	2
36	Single-Particle Mineralogy of Chinese Soil Particles by the Combined Use of Low-ZParticle Electron Probe X-ray Microanalysis and Attenuated Total Reflectance-FT-IR Imaging Techniques. Analytical Chemistry, 2011, 83, 7970-7977.	6.5	19

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37	Single-Particle Characterization of Summertime Antarctic Aerosols Collected at King George Island Using Quantitative Energy-Dispersive Electron Probe X-ray Microanalysis and Attenuated Total Reflection Fourier Transform-Infrared Imaging Techniques. Environmental Science & amp; Technology, 2011, 45, 6275-6282.	10.0	26
38	Characterisation of individual aerosol particles collected during a haze episode in Incheon, Korea using the quantitative ED-EPMA technique. Atmospheric Chemistry and Physics, 2011, 11, 1327-1337.	4.9	33
39	Single-particle characterization of indoor aerosol particles collected at an underground shopping area in Seoul, Korea. Indoor Air, 2011, 21, 12-24.	4.3	21
40	Quantitative energy-dispersive electron probe X-ray microanalysis for single-particle analysis and its application for characterizing atmospheric aerosol particles. Pramana - Journal of Physics, 2011, 76, 281-292.	1.8	3
41	Single-Particle Characterization of Atmospheric Aerosols Collected at Gosan, Korea, during the Asian Pacific Regional Aerosol Characterization Experiment Field Campaign Using Low-Z (Atomic Number) Particle Electron Probe X-ray Microanalysis. Journal of the Air and Waste Management Association, 2011, 61, 1183-1191.	1.9	9
42	Nondestructive Characterization of Municipal-Solid-Waste-Contaminated Surface Soil by Energy-Dispersive X-ray Fluorescence and Low- <i>Z</i> (Atomic Number) Particle Electron Probe X-ray Microanalysis. Journal of the Air and Waste Management Association, 2011, 61, 1102-1114.	1.9	9
43	Source identification of particulate matter collected at underground subway stations in Seoul, Korea using quantitative single-particle analysis. Atmospheric Environment, 2010, 44, 2287-2293.	4.1	114
44	The influence of collecting substrates on the single-particle characterization of real atmospheric aerosols. Analytica Chimica Acta, 2010, 658, 120-127.	5.4	10
45	Characterization of individual submicrometer aerosol particles collected in Incheon, Korea, by quantitative transmission electron microscopy energyâ€dispersive Xâ€ray spectrometry. Journal of Geophysical Research, 2010, 115, .	3.3	35
46	Combined Use of Optical and Electron Microscopic Techniques for the Measurement of Hygroscopic Property, Chemical Composition, and Morphology of Individual Aerosol Particles. Analytical Chemistry, 2010, 82, 7999-8009.	6.5	43
47	Chemical Speciation of Individual Airborne Particles by the Combined Use of Quantitative Energy-Dispersive Electron Probe X-ray Microanalysis and Attenuated Total Reflection Fourier Transform-Infrared Imaging Techniques. Analytical Chemistry, 2010, 82, 7987-7998.	6.5	24
48	Speciation of Individual Mineral Particles of Micrometer Size by the Combined Use of Attenuated Total Reflectance-Fourier Transform-Infrared Imaging and Quantitative Energy-Dispersive Electron Probe X-ray Microanalysis Techniques. Analytical Chemistry, 2010, 82, 6193-6202.	6.5	31
49	Single-Particle Characterization of Summertime Arctic Aerosols Collected at Ny-Ãlesund, Svalbard. Environmental Science & Technology, 2010, 44, 2348-2353.	10.0	65
50	X-ray Spectrometry. Analytical Chemistry, 2010, 82, 4950-4987.	6.5	18
51	Characterization of Summertime Aerosol Particles Collected at Subway Stations in Seoul, Korea Using Low-Z Particle Electron Probe X-ray Microanalysis. Asian Journal of Atmospheric Environment, 2010, 4, 97-105.	1.1	18
52	Characterization of Individual Atmospheric Aerosols Using Quantitative Energy Dispersive-Electron Probe X-ray Microanalysis: A Review. Asian Journal of Atmospheric Environment, 2010, 4, 115-140.	1.1	11
53	Morphological and chemical composition characteristics of summertime atmospheric particles collected at Tokchok Island, Korea. Atmospheric Environment, 2009, 43, 3364-3373.	4.1	25
54	Chemical characteristics of long-range transport aerosol at background sites in Korea. Atmospheric Environment, 2009, 43, 5556-5566.	4.1	52

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55	Quantitative ED-EPMA combined with morphological information for the characterization of individual aerosol particles collected in Incheon, Korea. Atmospheric Environment, 2009, 43, 3445-3453.	4.1	27
56	Organic surface coating on Coccolithophores - Emiliania huxleyi: Its determination and implication in the marine carbon cycle. Microchemical Journal, 2009, 91, 266-271.	4.5	41
57	Attenuated Total Reflectance FT-IR Imaging and Quantitative Energy Dispersive-Electron Probe X-ray Microanalysis Techniques for Single Particle Analysis of Atmospheric Aerosol Particles. Analytical Chemistry, 2009, 81, 6695-6707.	6.5	27
58	Elevated nitrogen-containing particles observed in Asian dust aerosol samples collected at the marine boundary layer of the Bohai Sea and the Yellow Sea. Atmospheric Chemistry and Physics, 2009, 9, 6933-6947.	4.9	73
59	Molecular mass concentrations for a powdered SRM sample using a quantitative single particle analysis. Analytica Chimica Acta, 2008, 619, 14-19.	5.4	11
60	Contribution of Canada–United States transboundary transport to wet deposition of sulphur and nitrogen oxides—A mass balance approach. Atmospheric Environment, 2008, 42, 2518-2529.	4.1	20
61	Single-particle characterization of aerosol samples collected before and during an Asian dust storm in Chuncheon, Korea. Atmospheric Environment, 2008, 42, 8738-8746.	4.1	38
62	X-ray Spectrometry. Analytical Chemistry, 2008, 80, 4421-4454.	6.5	23
63	Chemical Compositions of Subway Particles in Seoul, Korea Determined by a Quantitative Single Particle Analysis. Environmental Science & Technology, 2008, 42, 9051-9057.	10.0	107
64	Single-particle Characterization of Aerosol Samples Collected at an Underground Shopping Area. Journal of Korean Society for Atmospheric Environment, 2008, 24, 594-603.	1.1	1
65	Tracer Experiment for the Investigation of Urban Scale Dispersion of Air Pollutants - Simulation by CALPUFF Dispersion Model and Diffusion Feature of Tracer Gases. Journal of Korean Society for Atmospheric Environment, 2007, 23, 405-419.	1.1	2
66	Tracer Experiment for the Investigation of Urban Scale Dispersion of Air Pollutants - An Improved Method for the Release and Determination of Perfluorocarbon Tracers in the Urban Atmosphere. Journal of Korean Society for Atmospheric Environment, 2007, 23, 547-556.	1.1	0
67	Quantitative energy-dispersive electron probe X-ray microanalysis of individual particles. Powder Diffraction, 2006, 21, 140-144.	0.2	7
68	Single-particle characterization of soil samples collected at various arid areas of China, using low-Z particle electron probe X-ray microanalysisâ~†. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 393-399.	2.9	16
69	Single-particle characterization of "Asian Dust―certified reference materials using low-Z particle electron probe X-ray microanalysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 400-406.	2.9	15
70	Single-particle characterization of municipal solid waste (MSW) ash particles using low-Z particle electron probe X-ray microanalysis. Atmospheric Environment, 2006, 40, 2873-2881.	4.1	11
71	Direct observation of nitrate and sulfate formations from mineral dust and sea-salts using low-Z particle electron probe X-ray microanalysis. Atmospheric Environment, 2006, 40, 3869-3880.	4.1	83
72	Nitrogen and sulfur compounds in coastal Antarctic fine aerosol particles—an insight using non-destructive X-ray microanalytical methods. Atmospheric Environment, 2006, 40, 4691-4702.	4.1	18

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73	Thin-window electron probe X-ray microanalysis of individual atmospheric particles above the North Sea. Atmospheric Environment, 2005, 39, 3231-3242.	4.1	26
74	Single-Particle Characterization of Four "Asian Dust―Samples Collected in Korea, Using Low-Z Particle Electron Probe X-ray Microanalysis. Environmental Science & Technology, 2005, 39, 1409-1419.	10.0	100
75	Single-particle characterization of four aerosol samples collected in ChunCheon, Korea, during Asian dust storm events in 2002. Journal of Geophysical Research, 2005, 110, .	3.3	27
76	Single-Particle Characterization of Municipal Solid Waste (MSW) Ash Particles Using Low-Z Particle Electron Probe X-ray Microanalysis. Journal of Aerosol Science, 2004, 35, S1091-S1092.	3.8	0
77	An Expert System for Chemical Speciation of Individual Particles Using Low-ZParticle Electron Probe X-ray Microanalysis Data. Analytical Chemistry, 2004, 76, 1322-1327.	6.5	61
78	Investigation of chemical composition of belemnite rostra by synchrotron-based X-ray microfluorescence and diffraction and electron microprobe. Journal of Alloys and Compounds, 2004, 362, 99-106.	5.5	10
79	Studies on the wood tissue substitution by silica and calcite during the preservation of fossil wood. Journal of Alloys and Compounds, 2004, 362, 107-115.	5.5	18
80	A Monte Carlo Program for Quantitative Electron-Induced X-ray Analysis of Individual Particles. Analytical Chemistry, 2003, 75, 851-859.	6.5	125
81	Thermal stability of beam sensitive atmospheric aerosol particles in electron probe microanalysis at liquid nitrogen temperature. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 479-496.	2.9	38
82	Annual resolution analysis of a SW-France stalagmite by X-ray synchrotron microprobe analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 851-865.	2.9	24
83	Single-Particle Characterization of Urban Aerosol Particles Collected in Three Korean Cities Using Low-ZElectron Probe X-ray Microanalysis. Environmental Science & Technology, 2002, 36, 4770-4776.	10.0	40
84	Changes in Freshwater Acidification Trends in Canada's Atlantic Provinces: 1983–1997. Water, Air, and Soil Pollution, 2002, 135, 335-354.	2.4	53
85	Studies of Spatial Variabilities of Airborne Metals Across Four Different Land-Use Types. Water, Air, and Soil Pollution, 2002, 138, 7-24.	2.4	13
86	Determination of Atmospheric Perfluorocarbon Background Concentrations of fL/L Range at the Western Coastal Area of Korea. Bulletin of the Korean Chemical Society, 2002, 23, 301-308.	1.9	8
87	Analysis of speleothems by electron and X-ray microprobes. Journal of Analytical Atomic Spectrometry, 2001, 16, 90-95.	3.0	13
88	Heterogeneity Assessment in Individual CaCO3â^'CaSO4Particles Using Ultrathin Window Electron Probe X-ray Microanalysis. Analytical Chemistry, 2001, 73, 4574-4583.	6.5	22
89	Single-Particle Analysis of Aerosols at Cheju Island, Korea, Using Low-ZElectron Probe X-ray Microanalysis:Â A Direct Proof of Nitrate Formation from Sea Salts. Environmental Science & Technology, 2001, 35, 4487-4494.	10.0	67
90	Microspectrometric Investigation of Petrified Wood from South-Eastern Poland. Mikrochimica Acta, 2001, 137, 173-183.	5.0	3

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91	Evaluation of energy-dispersive x-ray spectra of low-Zelements from electron-probe microanalysis of individual particles. X-Ray Spectrometry, 2001, 30, 419-426.	1.4	15
92	Application of chemometric methods for classification of atmospheric particles based on thin-window electron probe microanalysis data. Analytica Chimica Acta, 2001, 446, 209-220.	5.4	14
93	Chemical speciation of individual atmospheric particles using low-Z electron probe X-ray microanalysis:. Atmospheric Environment, 2001, 35, 4995-5005.	4.1	65
94	Quantitative characterization of individual aerosol particles by thin-window electron probe microanalysis combined with iterative simulation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2000, 55, 1017-1030.	2.9	45
95	Light Element Analysis of Individual Microparticles Using Thin-Window EPMA. Mikrochimica Acta, 2000, 132, 349-355.	5.0	82
96	X-ray Spectrometry. Analytical Chemistry, 2000, 72, 211-234.	6.5	18
97	Determination of Chemical Species in Individual Aerosol Particles Using Ultrathin Window EPMA. Environmental Science & Technology, 2000, 34, 3023-3030.	10.0	67
98	Assessment of homogeneity of candidate reference material at the nanogram level and investigation on representativeness of single particle analysis using electron probe X-ray microanalysis. Analytica Chimica Acta, 1999, 389, 151-160.	5.4	13
99	Analyses of petrified wood by electron, X-ray and optical microprobes. Journal of Analytical Atomic Spectrometry, 1999, 14, 435-446.	3.0	15
100	Determination of Low-Z Elements in Individual Environmental Particles Using Windowless EPMA. Analytical Chemistry, 1999, 71, 1521-1528.	6.5	134
101	Simulation study on regeneration of depth profiles from angle-resolved XPS data. Surface and Interface Analysis, 1997, 25, 869-877.	1.8	23
102	Characterization of LiF Using XPS. Surface Science Spectra, 1992, 1, 277-283.	1.3	30
103	Molecular speciation of microparticles: application of pattern recognition techniques to laser microprobe mass spectrometric data. Analytica Chimica Acta, 1991, 243, 139-147.	5.4	18
104	Collisional energy transfer in the two-channel thermal unimolecular reaction of bromoethane-2-d. The Journal of Physical Chemistry, 1987, 91, 2354-2358.	2.9	7