Naoki Furuta

List of Publications by Year in descending order

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81	2,514	186265	206112
papers	citations	28 h-index	48 g-index

82	82	82	2146
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Particle size and composition distribution analysis of automotive brake abrasion dusts for the evaluation of antimony sources of airborne particulate matter. Atmospheric Environment, 2007, 41, 4908-4919.	4.1	263
2	Characterization of sources of lead in the urban air of Asia using ratios of stable lead isotopes. Environmental Science & Technology, 1993, 27, 1347-1356.	10.0	241
3	Emission Factor for Antimony in Brake Abrasion Dusts as One of the Major Atmospheric Antimony Sources. Environmental Science & Technology, 2008, 42, 2937-2942.	10.0	145
4	Concentrations, enrichment and predominant sources of Sb and other trace elements in size classified airborne particulate matter collected in Tokyo from 1995 to 2004. Journal of Environmental Monitoring, 2005, 7, 1155.	2.1	128
5	Complexation effect of antimony compounds with citric acid and its application to the speciation of antimony(iii) and antimony(v) using HPLC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2001, 16, 812-818.	3.0	105
6	Optimization of the mass scanning rate for the determination of lead isotope ratios using an inductively coupled plasma mass spectrometer. Journal of Analytical Atomic Spectrometry, 1991, 6, 199.	3.0	82
7	High-Precision Lead Isotope Ratio Measurement by Inductively Coupled Plasma Multiple Collector Mass Spectrometry. Analytical Sciences, 1993, 9, 675-680.	1.6	76
8	Studies on the speciation of inorganic and organic antimony compounds in airborne particulate matter by HPLC-ICP-MS. Analyst, The, 2000, 125, 1025-1028.	3.5	67
9	Speciation of selenium compounds with ion-pair reversed-phase liquid chromatography using inductively coupled plasma mass spectrometry as element-specific detection. Journal of Chromatography A, 2000, 874, 55-64.	3.7	65
10	Antimony Speciation in Environmental Samples by Using High-Performance Liquid Chromatography Coupled to Inductively Coupled Plasma Mass Spectrometry.. Analytical Sciences, 2000, 16, 75-80.	1.6	57
11	Spatial Characterization of Emission Intensities and Temperatures of a High Power Nitrogen Microwave-induced Plasma. Journal of Analytical Atomic Spectrometry, 1997, 12, 341-347.	3.0	56
12	Elemental mass spectrometry using a nitrogen microwave-induced plasma as an ion source. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1994, 49, 901-914.	2.9	52
13	Clarification of the predominant emission sources of antimony in airborne particulate matter and estimation of their effects on the atmosphere in Japan. Environmental Chemistry, 2009, 6, 122.	1.5	52
14	Evaluation of the detection capability of a high power nitrogen microwave-induced plasma for both atomic emission and mass spectrometry. Journal of Analytical Atomic Spectrometry, 1998, 13, 447-453.	3.0	49
15	Cycling of rare earth elements in the atmosphere in central Tokyo. Journal of Environmental Monitoring, 2011, 13, 3420.	2.1	47
16	Time-resolved fluorometry in detection of ultratrace polycyclic aromatic hydrocarbons in lake waters by liquid chromatography. Analytical Chemistry, 1983, 55, 2407-2413.	6.5	46
17	Determination of selenoamino acids using two-dimensional ion-pair reversed phase chromatography with on-line detection by inductively coupled plasma mass spectrometry. Talanta, 2003, 59, 27-36.	5.5	42
18	Spatial profile measurement of ionization and excitation temperatures in an inductively coupled plasma. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1985, 40, 1013-1022.	2.9	41

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19	The role of mass spectrometry in radioactive contamination assessment after the Fukushima nuclear accident. Journal of Analytical Atomic Spectrometry, 2018, 33, 519-546.	3.0	40
20	Noise characteristics of an inductively coupled plasma-mass spectrometer. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1989, 44, 649-656.	2.9	37
21	Determination of Rare Earth Elements (REEs) in Airborne Particulate Matter (APM) Collected in Tokyo, Japan, and a Positive Anomaly of Europium and Terbium. Analytical Sciences, 2010, 26, 929-935.	1.6	36
22	Dynamic pathways of selenium metabolism and excretion in mice under different selenium nutritional statuses. Metallomics, 2010, 2, 126-132.	2.4	36
23	Isotope Dilution Analysis of Se in Human Blood Serum by Using High-Power Nitrogen Microwave-Induced Plasma Mass Spectrometry Coupled with a Hydride Generation Technique. Analytical Chemistry, 1998, 70, 2726-2730.	6.5	33
24	Real-time monitoring and determination of Pb in a single airborne nanoparticle. Journal of Analytical Atomic Spectrometry, 2010, 25, 947.	3.0	33
25	Concentration distributions of dissolved Sb(III) and Sb(V) species in size-classified inhalable airborne particulate matter. Journal of Analytical Atomic Spectrometry, 2010, 25, 356-363.	3.0	33
26	Investigating the electrospray mass spectra of inorganic and organic antimony compounds. Journal of Analytical Atomic Spectrometry, 2001, 16, 62-67.	3.0	30
27	Reversed-phase liquid chromatography with mixed ion-pair reagents coupled with ICP-MS for the direct speciation analysis of selenium compounds in human urine. Journal of Analytical Atomic Spectrometry, 2002, 17, 730-735.	3.0	30
28	Determination of selenoprotein P in submicrolitre samples of human plasma using micro-affinity chromatography coupled with low flow ICP-MS. Journal of Analytical Atomic Spectrometry, 2007, 22, 911.	3.0	30
29	Fundamental Studies of Laser Ablation for the Introduction of Powdered Solid Samples into an Inductively Coupled Plasma. Applied Spectroscopy, 1991, 45, 1372-1376.	2.2	28
30	Spatial emission distribution of YO, Y I, Y II and Y III radiation in an inductively coupled plasma for the elucidation of excitation mechanisms. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1986, 41, 1115-1129.	2.9	27
31	Comparison of signal enhancement by co-existing carbon and by co-existing bromine in inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2014, 29, 1299-1305.	3.0	27
32	Effect of adding oxygen gas to a high power nitrogen microwave-induced plasma for atomic emission spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2000, 55, 1551-1564.	2.9	26
33	Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MS): Comparison of Different Internal Standardization Methods Using Laser-induced Plasma (LIP) Emission and LA-ICP-MS Signals.. Analytical Sciences, 2002, 18, 1105-1110.	1.6	24
34	Quantitative real-time monitoring of multi-elements in airborne particulates by direct introduction into an inductively coupled plasma mass spectrometer. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 76, 133-139.	2.9	24
35	Distribution and Dynamic Pathway of Selenium Species in Selenium-deficient Mice Injected with 82Se-enriched Selenite. Analytical Sciences, 2008, 24, 1117-1122.	1.6	21
36	Determination of rare earth elements in river water by fully automated on-line column inductively coupled plasma mass spectrometry using iminodiacetate chelate resin as a column. Bunseki Kagaku, 2003, 52, 575-582.	0.2	20

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37	Partitioning between soluble and insoluble fractions of major and trace elements in size-classified airborne particulate matter collected in Tokyo. Journal of Environmental Monitoring, 2008, 10, 211-218.	2.1	20
38	Quantitative mapping of elements in basil leaves (Ocimum basilicum) based on cesium concentration and growth period using laser ablation ICP-MS. Chemosphere, 2018, 190, 368-374.	8.2	19
39	Regional and seasonal characteristics of emission sources of fine airborne particulate matter collected in the center and suburbs of Tokyo, Japan as determined by multielement analysis and source receptor models. Journal of Environmental Monitoring, 2008, 10, 1025.	2.1	18
40	Isolation of Selenoprotein-P and Determination of Se Concentration Incorporated in Proteins in Human and Mouse Plasma by Tandem Heparin Affinity and Size-exclusion Column HPLC-ICPMS. Analytical Sciences, 2012, 28, 221-221.	1.6	17
41	Selenium metabolism and excretion in mice after injection of 82Se-enriched selenomethionine. Metallomics, 2013, 5, 445.	2.4	17
42	Interlaboratory Comparison Study on Lead Isotope Ratios Determined by Inductively Coupled Plasma Mass Spectrometry. Analytical Sciences, 1991, 7, 823-826.	1.6	16
43	Elevated Expression of Vacuolar Nickel Transporter Gene IREG2 Is Associated With Reduced Root-to-Shoot Nickel Translocation in Noccaea japonica. Frontiers in Plant Science, 2020, 11, 610.	3.6	16
44	Evaluation of a Silicon-Intensified Target Image Detector for Inductively Coupled Plasma Emission Spectrometer. Applied Spectroscopy, 1980, 34, 211-216.	2.2	15
45	Analog data treatment of spectra in flame absorption and emission spectrometry. Analytical Chemistry, 1976, 48, 2066-2069.	6.5	14
46	New approach for mapping and physiological test of silica nanoparticles accumulated in sweet basil (Ocimum basilicum) by LA-ICP-MS. Analytica Chimica Acta, 2019, 1069, 28-35.	5.4	13
47	Determination of rare earth elements in Precambrian sediments at Isua by inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 1995, 10, 25.	3.0	12
48	Studies on laser defocusing effects on laser ablation inductively coupled plasma-atomic emission spectrometry using emission signals from a laser-induced plasma. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 1713-1725.	2.9	12
49	Development of the Determination Method of Rare Earth Elements in Seawater by ICP-MS with an On-Line Preconcentration Column of Improved Iminodiacetate Resin and Its Application to Tokyo Bay Seawater. Bunseki Kagaku, 2009, 58, 623-631.	0.2	12
50	Determination of Trace Elements in Sintered and Single-Crystal Silicon Carbide by Laser Ablation in Liquid Inductively Coupled Plasma Mass Spectrometry. Analytical Sciences, 2017, 33, 537-541.	1.6	12
51	The photodissociation of alkali halides in airâ€"acetylene flame as studied by molecular absorption spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1978, 33, 715-726.	2.9	11
52	Temporal Changes of Fractionation Index Caused by Changes in the Large Size of Ablated Particles in Laser Ablation–Inductively Coupled Plasma Mass Spectrometry. Analytical Sciences, 2015, 31, 345-355.	1.6	11
53	Particle size-related elemental fractionation in laser ablation in liquid inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2015, 30, 2412-2419.	3.0	10
54	Multielemental chemical characterisation of fine urban aerosols collected in Buenos Aires and Tokyo by plasma-based techniques. Microchemical Journal, 2017, 133, 346-351.	4.5	10

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55	Quantification of Proteins by Measuring the Sulfur Content of Their Constituent Peptides by Means of Nano HPLC-ICPMS. Analytical Sciences, 2014, 30, 551-559.	1.6	9
56	Spatially resolved noise amplitude spectra of emission signals from an inductively coupled plasma.. Analytical Sciences, 1990, 6, 683-688.	1.6	8
57	Analytical Chemistry represented by "super" and "ultra". Local analysis of trace elements and lead isotope ratios in bark and bark pockets by laser ablation/ICP-MS.. Bunseki Kagaku, 2001, 50, 441-446.	0.2	8
58	PHOTODISSOCIATION OF SODIUM HALIDES IN THE AIR-ACETYLENE FLAME AS STUDIED BY MOLECULAR ABSORPTION FLAME SPECTROSCOPY. Chemistry Letters, 1976, 5, 539-542.	1.3	7
59	Laser Defocusing Effects on Laser Ablation Inductively Coupled Plasma-Atomic Emission Spectrometry: Different Ablation Interactions between the Laser and Low-Alloy Steel, Fe Pellets, and a Pond Sediment Pellet. Analytical Sciences, 2004, 20, 701-706.	1.6	7
60	Multielement analysis by continuum source atomic absorption spectrometry with the aid of analog data treatment. Analytical Chemistry, 1977, 49, 1263-1265.	6.5	6
61	Novel preconcentration technique using bis(2-ethylhexyl) hydrogen phosphate (HDEHP) loaded porous polytetrafluoroethylene (PTFE) filter tube as a sorbent: Its application to determination of In(III) in seawater by ICP-MS with air segmented discrete sample introduction. Analytica Chimica Acta, 2006, 556, 423-429.	5.4	6
62	Use of a Programmable Monochromator and a SIT Detector in Flame Atomic Emission Spectrometry. Bulletin of the Chemical Society of Japan, 1979, 52, 2913-2917.	3.2	5
63	Monitoring of iodine species during water purification at a public water treatment plant in Japan. Water Science and Technology: Water Supply, 2019, 19, 580-587.	2.1	5
64	Development of a plasma torch sustained by low-flow argon gas and its evaluation of the plasma characteristics and analytical performance for inductively coupled plasma mass spectrometry. Bunseki Kagaku, 2003, 52, 559-568.	0.2	4
65	Atomization and Changes in Chemical Composition by Laser Ablation in Liquid prior to Determination of Trace Elements in Gallium Nitride. Analytical Sciences, 2019, 35, 557-563.	1.6	4
66	Measurement of flame absorption spectra using a magnetic tape data treatment system. Bunseki Kagaku, 1975, 24, 733-735.	0.2	3
67	Analysis and leaching experiment of slag produced by an arc plasma treatment of fly ash.. Bunseki Kagaku, 2002, 51, 633-640.	0.2	3
68	Evaluation of inductively coupled plasma-ion trap mass spectrometry for lead isotopic measurements. Bunseki Kagaku, 2004, 53, 527-532.	0.2	3
69	Determination of Sulfur in Size Classified Airborne Particulate Matter. Bunseki Kagaku, 2009, 58, 617-622.	0.2	3
70	Effects of Selenium Deficiency on Proteins Containing Essential Trace Elements (Fe, Cu, Zn, Mn, Se) in Mouse Brain. Bunseki Kagaku, 2016, 65, 371-378.	0.2	3
71	Temporal changes of size distribution of mass and relative intensity for ablated particles during laser ablation inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2016, 31, 809-814.	3.0	3
72	Evaluation of measurement uncertainty in the elemental analysis of sintered silicon carbide using laser ablation in liquidâ€"inductively coupled plasma mass spectrometry with external calibration and isotope dilution. Accreditation and Quality Assurance, 2019, 24, 329-339.	0.8	3

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73	Investigation of pH Dependency of Solubility and Physical Property about Plasma Molten Slag from Fly Ash. IEEJ Transactions on Industry Applications, 2001, 121, 493-500.	0.2	3
74	Elimination of Spectral Interferences for the Determination of Fe and Se in Biological Samples Using ICP-Ion Trap Mass Spectrometer. Bunseki Kagaku, 2005, 54, 373-380.	0.2	2
75	Determination of Fe, Cu, Zn, Se and As in Biological Samples Using ICP-Ion Trap Mass Spectrometer. Bunseki Kagaku, 2006, 55, 587-594.	0.2	2
76	Chemical Speciation Analysis for Bromine in Tap Water by Ion Chromatography/Inductively Coupled Plasma-Mass Spectrometry and Electrospray Ionization-Mass Spectrometry. Bunseki Kagaku, 2010, 59, 811-816.	0.2	2
77	Acceleration of Vaporization, Atomization, and Ionization Efficiencies in Inductively Coupled Plasma by Merging Laser-Ablated Particles with Hydrochloric Acid Gas. Analytical Sciences, 2016, 32, 1283-1289.	1.6	2
78	Exploration of unknown nickel-containing proteins from plants by liquid chromatographyâ€“inductively coupled plasma mass spectrometry. Soil Science and Plant Nutrition, 2021, 67, 114-119.	1.9	2
79	Analytical atomic spectrometry in Japan over the last 25 years. Journal of Analytical Atomic Spectrometry, 2010, 25, 1371.	3.0	1
80	Determination of Selenomethionine in Selenium Enriched Yeast by Using Species-unspecific and Species-specific Isotope Dilution Analysis with HPLC-ICPMS. Bunseki Kagaku, 2013, 62, 679-684.	0.2	0
81	Protein Quantification and Quantitative Phosphorylation Analysis by the Determination of Hetero Atoms (S and P) by Means of nanoHPLC-ICPMS. , 2017, , 157-180.		0