

Naoki Furuta

List of Publications by Year in descending order

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81
papers

2,514
citations

212478

28
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232693

48
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82
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82
docs citations

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times ranked

2334
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Exploration of unknown nickel-containing proteins from plants by liquid chromatography–inductively coupled plasma mass spectrometry. <i>Soil Science and Plant Nutrition</i> , 2021, 67, 114-119. | 0.8 | 2 |
| 2 | Elevated Expression of Vacuolar Nickel Transporter Gene IREG2 Is Associated With Reduced Root-to-Shoot Nickel Translocation in <i>Noccaea japonica</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 610. | 1.7 | 16 |
| 3 | Atomization and Changes in Chemical Composition by Laser Ablation in Liquid prior to Determination of Trace Elements in Gallium Nitride. <i>Analytical Sciences</i> , 2019, 35, 557-563. | 0.8 | 4 |
| 4 | Evaluation of measurement uncertainty in the elemental analysis of sintered silicon carbide using laser ablation in liquid–inductively coupled plasma mass spectrometry with external calibration and isotope dilution. <i>Accreditation and Quality Assurance</i> , 2019, 24, 329-339. | 0.4 | 3 |
| 5 | New approach for mapping and physiological test of silica nanoparticles accumulated in sweet basil (<i>Ocimum basilicum</i>) by LA-ICP-MS. <i>Analytica Chimica Acta</i> , 2019, 1069, 28-35. | 2.6 | 13 |
| 6 | Monitoring of iodine species during water purification at a public water treatment plant in Japan. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 580-587. | 1.0 | 5 |
| 7 | The role of mass spectrometry in radioactive contamination assessment after the Fukushima nuclear accident. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 519-546. | 1.6 | 40 |
| 8 | Quantitative mapping of elements in basil leaves (<i>Ocimum basilicum</i>) based on cesium concentration and growth period using laser ablation ICP-MS. <i>Chemosphere</i> , 2018, 190, 368-374. | 4.2 | 19 |
| 9 | Protein Quantification and Quantitative Phosphorylation Analysis by the Determination of Hetero Atoms (S and P) by Means of nanoHPLC-ICPMS. , 2017, , 157-180. | | 0 |
| 10 | Multielemental chemical characterisation of fine urban aerosols collected in Buenos Aires and Tokyo by plasma-based techniques. <i>Microchemical Journal</i> , 2017, 133, 346-351. | 2.3 | 10 |
| 11 | Determination of Trace Elements in Sintered and Single-Crystal Silicon Carbide by Laser Ablation in Liquid Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Sciences</i> , 2017, 33, 537-541. | 0.8 | 12 |
| 12 | Effects of Selenium Deficiency on Proteins Containing Essential Trace Elements (Fe, Cu, Zn, Mn, Se) in Mouse Brain. <i>Bunseki Kagaku</i> , 2016, 65, 371-378. | 0.1 | 3 |
| 13 | Acceleration of Vaporization, Atomization, and Ionization Efficiencies in Inductively Coupled Plasma by Merging Laser-Ablated Particles with Hydrochloric Acid Gas. <i>Analytical Sciences</i> , 2016, 32, 1283-1289. | 0.8 | 2 |
| 14 | Temporal changes of size distribution of mass and relative intensity for ablated particles during laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 809-814. | 1.6 | 3 |
| 15 | Temporal Changes of Fractionation Index Caused by Changes in the Large Size of Ablated Particles in Laser Ablation–Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Sciences</i> , 2015, 31, 345-355. | 0.8 | 11 |
| 16 | Particle size-related elemental fractionation in laser ablation in liquid inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 2412-2419. | 1.6 | 10 |
| 17 | Comparison of signal enhancement by co-existing carbon and by co-existing bromine in inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1299-1305. | 1.6 | 27 |
| 18 | Quantification of Proteins by Measuring the Sulfur Content of Their Constituent Peptides by Means of Nano HPLC-ICPMS. <i>Analytical Sciences</i> , 2014, 30, 551-559. | 0.8 | 9 |

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|----|---|-----|-----------|
| 19 | Selenium metabolism and excretion in mice after injection of ⁸² Se-enriched selenomethionine. <i>Metallomics</i> , 2013, 5, 445. | 1.0 | 17 |
| 20 | Determination of Selenomethionine in Selenium Enriched Yeast by Using Species-unspecific and Species-specific Isotope Dilution Analysis with HPLC-ICPMS. <i>Bunseki Kagaku</i> , 2013, 62, 679-684. | 0.1 | 0 |
| 21 | 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. <i>Analytical Sciences</i> , 2012, 28, 221-221. | 0.8 | 17 |
| 22 | Quantitative real-time monitoring of multi-elements in airborne particulates by direct introduction into an inductively coupled plasma mass spectrometer. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 76, 133-139. | 1.5 | 24 |
| 23 | Cycling of rare earth elements in the atmosphere in central Tokyo. <i>Journal of Environmental Monitoring</i> , 2011, 13, 3420. | 2.1 | 47 |
| 24 | Determination of Rare Earth Elements (REEs) in Airborne Particulate Matter (APM) Collected in Tokyo, Japan, and a Positive Anomaly of Europium and Terbium. <i>Analytical Sciences</i> , 2010, 26, 929-935. | 0.8 | 36 |
| 25 | Chemical Speciation Analysis for Bromine in Tap Water by Ion Chromatography/Inductively Coupled Plasma-Mass Spectrometry and Electrospray Ionization-Mass Spectrometry. <i>Bunseki Kagaku</i> , 2010, 59, 811-816. | 0.1 | 2 |
| 26 | Real-time monitoring and determination of Pb in a single airborne nanoparticle. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 947. | 1.6 | 33 |
| 27 | Analytical atomic spectrometry in Japan over the last 25 years. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1371. | 1.6 | 1 |
| 28 | Concentration distributions of dissolved Sb(III) and Sb(V) species in size-classified inhalable airborne particulate matter. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 356-363. | 1.6 | 33 |
| 29 | Dynamic pathways of selenium metabolism and excretion in mice under different selenium nutritional statuses. <i>Metallomics</i> , 2010, 2, 126-132. | 1.0 | 36 |
| 30 | Clarification of the predominant emission sources of antimony in airborne particulate matter and estimation of their effects on the atmosphere in Japan. <i>Environmental Chemistry</i> , 2009, 6, 122. | 0.7 | 52 |
| 31 | Determination of Sulfur in Size Classified Airborne Particulate Matter. <i>Bunseki Kagaku</i> , 2009, 58, 617-622. | 0.1 | 3 |
| 32 | 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. <i>Bunseki Kagaku</i> , 2009, 58, 623-631. | 0.1 | 12 |
| 33 | Partitioning between soluble and insoluble fractions of major and trace elements in size-classified airborne particulate matter collected in Tokyo. <i>Journal of Environmental Monitoring</i> , 2008, 10, 211-218. | 2.1 | 20 |
| 34 | 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. <i>Journal of Environmental Monitoring</i> , 2008, 10, 1025. | 2.1 | 18 |
| 35 | Emission Factor for Antimony in Brake Abrasion Dusts as One of the Major Atmospheric Antimony Sources. <i>Environmental Science & Technology</i> , 2008, 42, 2937-2942. | 4.6 | 145 |
| 36 | Distribution and Dynamic Pathway of Selenium Species in Selenium-deficient Mice Injected with ⁸² Se-enriched Selenite. <i>Analytical Sciences</i> , 2008, 24, 1117-1122. | 0.8 | 21 |

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|----|---|-----|-----------|
| 37 | Determination of selenoprotein P in submicrolitre samples of human plasma using micro-affinity chromatography coupled with low flow ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 911. | 1.6 | 30 |
| 38 | Particle size and composition distribution analysis of automotive brake abrasion dusts for the evaluation of antimony sources of airborne particulate matter. <i>Atmospheric Environment</i> , 2007, 41, 4908-4919. | 1.9 | 263 |
| 39 | Determination of Fe, Cu, Zn, Se and As in Biological Samples Using ICP-Ion Trap Mass Spectrometer. <i>Bunseki Kagaku</i> , 2006, 55, 587-594. | 0.1 | 2 |
| 40 | 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. <i>Analytica Chimica Acta</i> , 2006, 556, 423-429. | 2.6 | 6 |
| 41 | Elimination of Spectral Interferences for the Determination of Fe and Se in Biological Samples Using ICP-Ion Trap Mass Spectrometer. <i>Bunseki Kagaku</i> , 2005, 54, 373-380. | 0.1 | 2 |
| 42 | Concentrations, enrichment and predominant sources of Sb and other trace elements in size classified airborne particulate matter collected in Tokyo from 1995 to 2004. <i>Journal of Environmental Monitoring</i> , 2005, 7, 1155. | 2.1 | 128 |
| 43 | 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. <i>Analytical Sciences</i> , 2004, 20, 701-706. | 0.8 | 7 |
| 44 | Evaluation of inductively coupled plasma-ion trap mass spectrometry for lead isotopic measurements. <i>Bunseki Kagaku</i> , 2004, 53, 527-532. | 0.1 | 3 |
| 45 | Determination of selenoamino acids using two-dimensional ion-pair reversed phase chromatography with on-line detection by inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2003, 59, 27-36. | 2.9 | 42 |
| 46 | 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. <i>Bunseki Kagaku</i> , 2003, 52, 559-568. | 0.1 | 4 |
| 47 | 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. <i>Bunseki Kagaku</i> , 2003, 52, 575-582. | 0.1 | 20 |
| 48 | Analysis and leaching experiment of slag produced by an arc plasma treatment of fly ash.. <i>Bunseki Kagaku</i> , 2002, 51, 633-640. | 0.1 | 3 |
| 49 | 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.. <i>Analytical Sciences</i> , 2002, 18, 1105-1110. | 0.8 | 24 |
| 50 | Reversed-phase liquid chromatography with mixed ion-pair reagents coupled with ICP-MS for the direct speciation analysis of selenium compounds in human urine. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 730-735. | 1.6 | 30 |
| 51 | Studies on laser defocusing effects on laser ablation inductively coupled plasma-atomic emission spectrometry using emission signals from a laser-induced plasma. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 1713-1725. | 1.5 | 12 |
| 52 | Investigating the electrospray mass spectra of inorganic and organic antimony compounds. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 62-67. | 1.6 | 30 |
| 53 | Complexation effect of antimony compounds with citric acid and its application to the speciation of antimony(III) and antimony(V) using HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 812-818. | 1.6 | 105 |
| 54 | 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.. <i>Bunseki Kagaku</i> , 2001, 50, 441-446. | 0.1 | 8 |

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|----|--|-----|-----------|
| 55 | 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. | 0.1 | 3 |
| 56 | Antimony Speciation in Environmental Samples by Using High-Performance Liquid Chromatography Coupled to Inductively Coupled Plasma Mass Spectrometry.. Analytical Sciences, 2000, 16, 75-80. | 0.8 | 57 |
| 57 | 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. | 1.8 | 65 |
| 58 | 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. | 1.5 | 26 |
| 59 | Studies on the speciation of inorganic and organic antimony compounds in airborne particulate matter by HPLC-ICP-MS. Analyst, The, 2000, 125, 1025-1028. | 1.7 | 67 |
| 60 | 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. | 1.6 | 49 |
| 61 | 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. | 3.2 | 33 |
| 62 | Spatial Characterization of Emission Intensities and Temperatures of a High Power Nitrogen Microwave-induced Plasma. Journal of Analytical Atomic Spectrometry, 1997, 12, 341-347. | 1.6 | 56 |
| 63 | Determination of rare earth elements in Precambrian sediments at Isua by inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 1995, 10, 25. | 1.6 | 12 |
| 64 | Elemental mass spectrometry using a nitrogen microwave-induced plasma as an ion source. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1994, 49, 901-914. | 1.5 | 52 |
| 65 | Characterization of sources of lead in the urban air of Asia using ratios of stable lead isotopes. Environmental Science & Technology, 1993, 27, 1347-1356. | 4.6 | 241 |
| 66 | High-Precision Lead Isotope Ratio Measurement by Inductively Coupled Plasma Multiple Collector Mass Spectrometry. Analytical Sciences, 1993, 9, 675-680. | 0.8 | 76 |
| 67 | 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. | 1.6 | 82 |
| 68 | Fundamental Studies of Laser Ablation for the Introduction of Powdered Solid Samples into an Inductively Coupled Plasma. Applied Spectroscopy, 1991, 45, 1372-1376. | 1.2 | 28 |
| 69 | Interlaboratory Comparison Study on Lead Isotope Ratios Determined by Inductively Coupled Plasma Mass Spectrometry. Analytical Sciences, 1991, 7, 823-826. | 0.8 | 16 |
| 70 | Spatially resolved noise amplitude spectra of emission signals from an inductively coupled plasma.. Analytical Sciences, 1990, 6, 683-688. | 0.8 | 8 |
| 71 | Noise characteristics of an inductively coupled plasma-mass spectrometer. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1989, 44, 649-656. | 1.5 | 37 |
| 72 | 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. | 1.5 | 27 |

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|----|--|-----|-----------|
| 73 | Spatial profile measurement of ionization and excitation temperatures in an inductively coupled plasma. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1985, 40, 1013-1022. | 1.5 | 41 |
| 74 | Time-resolved fluorometry in detection of ultratrace polycyclic aromatic hydrocarbons in lake waters by liquid chromatography. <i>Analytical Chemistry</i> , 1983, 55, 2407-2413. | 3.2 | 46 |
| 75 | Evaluation of a Silicon-Intensified Target Image Detector for Inductively Coupled Plasma Emission Spectrometer. <i>Applied Spectroscopy</i> , 1980, 34, 211-216. | 1.2 | 15 |
| 76 | Use of a Programmable Monochromator and a SIT Detector in Flame Atomic Emission Spectrometry. <i>Bulletin of the Chemical Society of Japan</i> , 1979, 52, 2913-2917. | 2.0 | 5 |
| 77 | The photodissociation of alkali halides in air-acetylene flame as studied by molecular absorption spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1978, 33, 715-726. | 1.5 | 11 |
| 78 | Multielement analysis by continuum source atomic absorption spectrometry with the aid of analog data treatment. <i>Analytical Chemistry</i> , 1977, 49, 1263-1265. | 3.2 | 6 |
| 79 | Analog data treatment of spectra in flame absorption and emission spectrometry. <i>Analytical Chemistry</i> , 1976, 48, 2066-2069. | 3.2 | 14 |
| 80 | PHOTODISSOCIATION OF SODIUM HALIDES IN THE AIR-ACETYLENE FLAME AS STUDIED BY MOLECULAR ABSORPTION FLAME SPECTROSCOPY. <i>Chemistry Letters</i> , 1976, 5, 539-542. | 0.7 | 7 |
| 81 | Measurement of flame absorption spectra using a magnetic tape data treatment system. <i>Bunseki Kagaku</i> , 1975, 24, 733-735. | 0.1 | 3 |