

Bei Wu

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,784
citations

304743

22
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

2164
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Bioimaging of metals by laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS). <i>Mass Spectrometry Reviews</i> , 2010, 29, 156-175. | 5.4 | 267 |
| 2 | Bioimaging mass spectrometry of trace elements – recent advance and applications of LA-ICP-MS: A review. <i>Analytica Chimica Acta</i> , 2014, 835, 1-18. | 5.4 | 205 |
| 3 | Cerebral bioimaging of Cu, Fe, Zn, and Mn in the MPTP mouse model of Parkinson’s disease using laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS). <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 161-171. | 2.8 | 181 |
| 4 | Dissolved and colloidal phosphorus fluxes in forest ecosystems – an almost blind spot in ecosystem research. <i>Journal of Plant Nutrition and Soil Science</i> , 2016, 179, 425-438. | 1.9 | 125 |
| 5 | Imaging of nutrient elements in the leaves of <i>Elsholtzia splendens</i> by laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS). <i>Talanta</i> , 2009, 78, 132-137. | 5.5 | 116 |
| 6 | Imaging techniques for elements and element species in plant science. <i>Metallomics</i> , 2012, 4, 403. | 2.4 | 84 |
| 7 | Biomonitoring of essential and toxic metals in single hair using on-line solution-based calibration in laser ablation inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2010, 82, 1770-1777. | 5.5 | 73 |
| 8 | Bioimaging of Metals and Biomolecules in Mouse Heart by Laser Ablation Inductively Coupled Plasma Mass Spectrometry and Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 9528-9533. | 6.5 | 72 |
| 9 | An X-ray absorption spectroscopy investigation of speciation and biotransformation of copper in <i>Elsholtzia splendens</i> . <i>Plant and Soil</i> , 2008, 302, 163-174. | 3.7 | 62 |
| 10 | Iron cycling and isotope fractionation in terrestrial ecosystems. <i>Earth-Science Reviews</i> , 2019, 190, 323-352. | 9.1 | 62 |
| 11 | Study of essential element accumulation in the leaves of a Cu-tolerant plant <i>Elsholtzia splendens</i> after Cu treatment by imaging laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS). <i>Analytica Chimica Acta</i> , 2009, 633, 165-172. | 5.4 | 57 |
| 12 | Imaging of essential and toxic elements in biological tissues by LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1275. | 3.0 | 53 |
| 13 | Biomonitoring of metal contamination in a marine prosobranch snail (<i>Nassarius reticulatus</i>) by imaging laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS). <i>Talanta</i> , 2009, 80, 428-433. | 5.5 | 50 |
| 14 | Imaging of elements and molecules in biological tissues and cells in the low-micrometer and nanometer range. <i>International Journal of Mass Spectrometry</i> , 2011, 307, 112-122. | 1.5 | 47 |
| 15 | Diverse accumulation and distribution of nutrient elements in developing wheat grain studied by laser ablation inductively coupled plasma mass spectrometry imaging. <i>Metallomics</i> , 2013, 5, 1276. | 2.4 | 44 |
| 16 | Mass spectrometric imaging (MSI) of metals using advanced BrainMet techniques for biomedical research. <i>International Journal of Mass Spectrometry</i> , 2011, 307, 3-15. | 1.5 | 42 |
| 17 | Imaging of metals and metal-containing species in biological tissues and on gels by laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS): A new analytical strategy for applications in life sciences. <i>Pure and Applied Chemistry</i> , 2008, 80, 2643-2655. | 1.9 | 30 |
| 18 | Scaling down the bioimaging of metals by laser microdissection inductively coupled plasma mass spectrometry (LMD-ICP-MS). <i>International Journal of Mass Spectrometry</i> , 2010, 294, 1-6. | 1.5 | 30 |

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|----|---|-----|-----------|
| 19 | Speciation and biochemical transformations of sulfur and copper in rice rhizosphere and bulk soil—XANES evidence of sulfur and copper associations. <i>Journal of Soils and Sediments</i> , 2010, 10, 907-914. | 3.0 | 30 |
| 20 | Mass spectrometry imaging (MSI) of metals in mouse spinal cord by laser ablation ICP-MS. <i>Metallomics</i> , 2012, 4, 284. | 2.4 | 28 |
| 21 | Copper Uptake and Its Effect on Metal Distribution in Root Growth Zones of <i>Commelina communis</i> Revealed by SRXRF. <i>Biological Trace Element Research</i> , 2011, 141, 294-304. | 3.5 | 26 |
| 22 | Quantitative imaging of the tissue contrast agent [Gd(DTPA)] ²⁺ in articular cartilage by laser ablation inductively coupled plasma mass spectrometry. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 204-209. | 0.8 | 23 |
| 23 | Study of metal-containing proteins in the roots of <i>Elsholtzia splendens</i> using LA-ICP-MS and LC-tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2011, 307, 85-91. | 1.5 | 21 |
| 24 | Bioimaging of metals in rat brain hippocampus by laser microdissection inductively coupled plasma mass spectrometry (LMD-ICP-MS) using high-efficiency laser ablation chambers. <i>International Journal of Mass Spectrometry</i> , 2012, 323-324, 34-40. | 1.5 | 21 |
| 25 | Mass spectrometric imaging of elements in biological tissues by new BrainMet technique—laser microdissection inductively coupled plasma mass spectrometry (LMD-ICP-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1653. | 3.0 | 14 |
| 26 | Critical accumulation of fertilizer-derived uranium in Icelandic grassland Andosol. <i>Environmental Sciences Europe</i> , 2020, 32, . | 5.5 | 11 |
| 27 | A Dataset for Three-Dimensional Distribution of 39 Elements Including Plant Nutrients and Other Metals and Metalloids in the Soils of a Forested Headwater Catchment. <i>Journal of Environmental Quality</i> , 2017, 46, 1510-1518. | 2.0 | 6 |
| 28 | Iron isotope fractionation in soil and graminaceous crops after 100% years of liming in the long-term agricultural experimental site at Berlin-Dahlem, Germany. <i>European Journal of Soil Science</i> , 2021, 72, 289-299. | 3.9 | 2 |
| 29 | Uranium Vertical and Lateral Distribution in a German Forested Catchment. <i>Forests</i> , 2020, 11, 1351. | 2.1 | 1 |
| 30 | A century of liming affects the Mg isotopic composition of the soil and crops in a long-term agricultural field at Berlin-Dahlem, Germany. <i>European Journal of Soil Science</i> , 2021, 72, 300-312. | 3.9 | 1 |