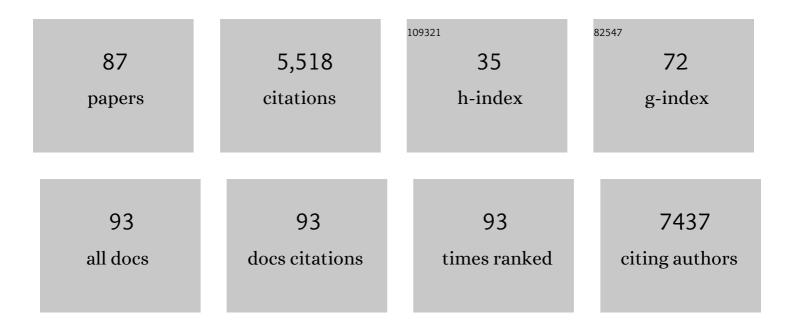
## **Bodo Hattendorf**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Highly multiplexed imaging of tumor tissues with subcellular resolution by mass cytometry. Nature Methods, 2014, 11, 417-422.	19.0	1,430
2	Determination of Forty Two Major and Trace Elements in USCS and NIST SRM Glasses by Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry. Geostandards and Geoanalytical Research, 2002, 26, 181-196.	3.1	454
3	Solid sample analysis using laser ablation inductively coupled plasma mass spectrometry. TrAC - Trends in Analytical Chemistry, 2005, 24, 255-265.	11.4	432
4	Persistence of engineered nanoparticles in a municipal solid-waste incineration plant. Nature Nanotechnology, 2012, 7, 520-524.	31.5	186
5	Potentiometric Polymeric Membrane Electrodes for Measurement of Environmental Samples at Trace Levels:Â New Requirements for Selectivities and Measuring Protocols, and Comparison with ICPMS. Analytical Chemistry, 2001, 73, 343-351.	6.5	179
6	Niobium-Zirconium Chronometry and Early Solar System Development. Science, 2002, 295, 1705-1708.	12.6	165
7	A prototype of a new inductively coupled plasma time-of-flight mass spectrometer providing temporally resolved, multi-element detection of short signals generated by single particles and droplets. Journal of Analytical Atomic Spectrometry, 2013, 28, 226-233.	3.0	150
8	Peer Reviewed: Laser Ablation-ICPMS. Analytical Chemistry, 2003, 75, 341 A-347 A.	6.5	134
9	Characterization of a new ICP-TOFMS instrument with continuous and discrete introduction of solutions. Journal of Analytical Atomic Spectrometry, 2017, 32, 548-561.	3.0	117
10	GFAJ-1 Is an Arsenate-Resistant, Phosphate-Dependent Organism. Science, 2012, 337, 467-470.	12.6	104
11	Use of rareâ€earth elements in the phyllosphere colonizer <i>Methylobacterium extorquens</i> PA1. Molecular Microbiology, 2019, 111, 1152-1166.	2.5	88
12	Simultaneous Mass Quantification of Nanoparticles of Different Composition in a Mixture by Microdroplet Generator-ICPTOFMS. Analytical Chemistry, 2014, 86, 8142-8148.	6.5	86
13	Characteristics and capabilities of an ICP-MS with a dynamic reaction cell for dry aerosols and laser ablation. Journal of Analytical Atomic Spectrometry, 2000, 15, 1125-1131.	3.0	85
14	High-Speed, High-Resolution, Multielemental Laser Ablation-Inductively Coupled Plasma-Time-of-Flight Mass Spectrometry Imaging: Part I. Instrumentation and Two-Dimensional Imaging of Geological Samples. Analytical Chemistry, 2015, 87, 8250-8258.	6.5	76
15	Deep and bottom water export from the Southern Ocean to the Pacific over the past 38 million years. Paleoceanography, 2004, 19, n/a-n/a.	3.0	72
16	High-Speed, High-Resolution, Multielemental LA-ICP-TOFMS Imaging: Part II. Critical Evaluation of Quantitative Three-Dimensional Imaging of Major, Minor, and Trace Elements in Geological Samples. Analytical Chemistry, 2015, 87, 8259-8267.	6.5	70
17	Zirconium isotope evidence for incomplete admixing of r -process components in the solar nebula. Earth and Planetary Science Letters, 2003, 216, 467-481.	4.4	69
18	Differential passage of fluids and different-sized particles in fistulated oxen (Bos primigenius f.) Tj ETQq0 0 0 rgB1 particle size discrimination is independent from contents stratification. Comparative Biochemistry and Physiology Part A, Molecular & Amp; Integrative Physiology, 2010, 155, 211-222.	Overlock 1.8	2 10 Tf 50 72 67

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19	Peptideâ€Coated Platinum Nanoparticles with Selective Toxicity against Liver Cancer Cells. Angewandte Chemie - International Edition, 2019, 58, 4901-4905.	13.8	64
20	Comparison of manganese oxide nanoparticles and manganese sulfate with regard to oxidative stress, uptake and apoptosis in alveolar epithelial cells. Toxicology Letters, 2011, 205, 163-172.	0.8	59
21	Identification of growth mechanisms in metamorphic garnet by high-resolution trace element mapping with LA-ICP-TOFMS. Contributions To Mineralogy and Petrology, 2020, 175, 1.	3.1	57
22	Nucleosynthetic zirconium isotope anomalies in acid leachates of carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 2005, 69, 5113-5122.	3.9	56
23	Analyte response in laser ablation inductively coupled plasma mass spectrometry. Journal of the American Society for Mass Spectrometry, 2006, 17, 641-651.	2.8	54
24	Size-Dependent Luminescence in HfO <sub>2</sub> Nanocrystals: Toward White Emission from Intrinsic Surface Defects. Chemistry of Materials, 2016, 28, 3245-3253.	6.7	54
25	Strategies for method development for an inductively coupled plasma mass spectrometer with bandpass reaction cell. Approaches with different reaction gases for the determination of selenium. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 1-13.	2.9	53
26	Effects of operating conditions and matrix on mass bias in MC-ICPMS. Journal of Analytical Atomic Spectrometry, 2009, 24, 637.	3.0	53
27	Tracing the history of submarine hydrothermal inputs and the significance of hydrothermal hafnium for the seawater budget—a combined Pb–Hf–Nd isotope approach. Earth and Planetary Science Letters, 2004, 222, 259-273.	4.4	50
28	Capabilities of laser ablation inductively coupled plasma time-of-flight mass spectrometry. Journal of Analytical Atomic Spectrometry, 2017, 32, 1946-1959.	3.0	49
29	Cadmium accumulation and allocation in different cacao cultivars. Science of the Total Environment, 2019, 678, 660-670.	8.0	47
30	Simultaneous Ultratrace Determination of Zr and Nb in Chromium Matrixes with ICP-Dynamic Reaction Cell MS. Analytical Chemistry, 2001, 73, 5494-5498.	6.5	45
31	Lead isotopes in North Pacific deep water – implications for past changes in input sources and circulation patterns. Earth and Planetary Science Letters, 2003, 209, 149-164.	4.4	44
32	Experimental Study of Collection Efficiencies between Submicron Aerosols and Cloud Droplets. Journals of the Atmospheric Sciences, 2011, 68, 1853-1864.	1.7	43
33	Vaporization and ionization of laser ablation generated aerosols in an inductively coupled plasma mass spectrometer—implications from ion distribution maps. Journal of Analytical Atomic Spectrometry, 2006, 21, 1143-1151.	3.0	42
34	Tellurium isotopic composition of the early solar system—A search for effects resulting from stellar nucleosynthesis, 126Sn decay, and mass-independent fractionation. Geochimica Et Cosmochimica Acta, 2005, 69, 5099-5112.	3.9	35
35	Search for nucleosynthetic and radiogenic tellurium isotope anomalies in carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 2006, 70, 3436-3448.	3.9	35
36	Comparison of 795 nm and 265 nm femtosecond and 193 nm nanosecond laser ablation inductively coupled plasma mass spectrometry for the quantitative multi-element analysis of glass materials. Journal of Analytical Atomic Spectrometry, 2014, 29, 1345.	3.0	35

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37	Untargeted metabolomics links glutathione to bacterial cell cycle progression. Nature Metabolism, 2020, 2, 153-166.	11.9	34
38	Preparation and characterization of calibration standards for bone density determination by micro-computed tomography. Analyst, The, 2007, 132, 1040.	3.5	33
39	Calibration of laser-ablation ICP-MS. Can we use synthetic standards with pneumatic nebulization?. Fresenius' Journal of Analytical Chemistry, 1998, 362, 468-472.	1.5	30
40	Suppression of in-cell generated interferences in a reaction cell ICP-MS by bandpass tuning and kinetic energy discrimination. Journal of Analytical Atomic Spectrometry, 2004, 19, 600-606.	3.0	28
41	Diffusion- and velocity-driven spatial separation of analytes from single droplets entering an ICP off-axis. Journal of Analytical Atomic Spectrometry, 2014, 29, 262-271.	3.0	28
42	Detecting and Number Counting of Single Engineered Nanoparticles by Digital Particle Polymerase Chain Reaction. ACS Nano, 2015, 9, 9564-9572.	14.6	28
43	Systematic studies on the determination of Hg-labelled proteins using laser ablation-ICPMS and isotope dilution analysis. Analytical and Bioanalytical Chemistry, 2011, 401, 2691-2698.	3.7	23
44	Thermally driven fracture aperture variation in naturally fractured granites. Geothermal Energy, 2019, 7, .	1.9	23
45	Nb/Zr fractionation on the Moon and the search for extinct 92Nb. Geochimica Et Cosmochimica Acta, 2005, 69, 775-785.	3.9	22
46	Using the stable isotope marker44Ca to study dispersal and host-foraging activity in parasitoids. Journal of Applied Ecology, 2006, 43, 1031-1039.	4.0	21
47	Laser Ablation – Accelerator Mass Spectrometry: An Approach for Rapid Radiocarbon Analyses of Carbonate Archives at High Spatial Resolution. Analytical Chemistry, 2016, 88, 8570-8576.	6.5	21
48	Replacing the Argon ICP: Nitrogen Microwave Inductively Coupled Atmospheric-Pressure Plasma (MICAP) for Mass Spectrometry. Analytical Chemistry, 2018, 90, 13443-13450.	6.5	19
49	Improving detection capability for single particle inductively coupled plasma mass spectrometry with microdroplet sample introduction. Journal of Analytical Atomic Spectrometry, 2021, 36, 233-242.	3.0	19
50	Tellurium isotope compositions of calciumâ€aluminumâ€rich inclusions. Meteoritics and Planetary Science, 2009, 44, 971-984.	1.6	18
51	Thickness Determination of Subnanometer Layers Using Laser Ablation Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2012, 84, 8771-8776.	6.5	18
52	Characterization of inductively coupled plasma time-of-flight mass spectrometry in combination with collision/reaction cell technology – insights from highly time-resolved measurements. Journal of Analytical Atomic Spectrometry, 2019, 34, 135-146.	3.0	18
53	Abundance and Impact of Doubly Charged Polyatomic Argon Interferences in ICPMS Spectra. Analytical Chemistry, 2016, 88, 7281-7288.	6.5	17
54	Skip the beat: minimizing aliasing error in LA-ICP-MS measurements. Analytical and Bioanalytical Chemistry, 2019, 411, 591-602.	3.7	17

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55	NanoSr – A New Carbonate Microanalytical Reference Material for <i>In Situ</i> Strontium Isotope Analysis. Geostandards and Geoanalytical Research, 2020, 44, 69-83.	3.1	16
56	Bismesitoylphosphinic Acid (BAPOâ€OH): A Ligand for Copper Complexes and Fourâ€Electron Photoreductant for the Preparation of Copper Nanomaterials. Angewandte Chemie - International Edition, 2018, 57, 7697-7702.	13.8	15
5 <b>7</b>	Dual isotope system analysis of lead white in artworks. Analyst, The, 2020, 145, 1310-1318.	3.5	15
58	Tracking parasitoids with the stable isotope 44Ca in agroecosystems. Agriculture, Ecosystems and Environment, 2007, 118, 143-148.	5.3	14
59	No â€ <sup>-</sup> bypass' in adult ruminants: Passage of fluid ingested vs. fluid inserted into the rumen in fistulated muskoxen (Ovibos moschatus), reindeer (Rangifer tarandus) and moose (Alces alces). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 154, 151-156.	1.8	14
60	Toward a Spatiotemporal Understanding of Dolomite Dissolution in Sandstone by CO <sub>2</sub> -Enriched Brine Circulation. Environmental Science & Technology, 2019, 53, 12458-12466.	10.0	14
61	The Bright Xâ€Ray Stimulated Luminescence of HfO <sub>2</sub> Nanocrystals Activated by Ti Ions. Advanced Optical Materials, 2020, 8, 1901348.	7.3	13
62	An Rf-only ion funnel interface for ion cooling in laser ablation time of flight mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 146, 57-68.	2.9	12
63	Laser ablation–accelerator mass spectrometry reveals complete bomb 14C signal in an otolith with confirmation of 60-year longevity for red snapper (Lutjanus campechanus). Marine and Freshwater Research, 2019, 70, 1768.	1.3	12
64	Characteristics of an ion funnel as ion guide in an inductively coupled plasma mass spectrometer. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 76, 40-47.	2.9	11
65	Highly-sensitive open-cell LA-ICPMS approaches for the quantification of rare earth elements in natural carbonates at parts-per-billion levels. Analytica Chimica Acta, 2018, 1018, 54-61.	5.4	11
66	LA-ICP-MS using a nitrogen plasma source. Journal of Analytical Atomic Spectrometry, 2021, 36, 1750-1757.	3.0	11
67	Mass Spectrometric Observation of Doubly Charged Alkalineâ€Earth Argon Ions. ChemPhysChem, 2016, 17, 2640-2644.	2.1	10
68	The Effect of Mineral Dissolution on the Effective Stress Law for Permeability in a Tight Sandstone. Geophysical Research Letters, 2020, 47, e2020GL088346.	4.0	10
69	Demonstrating Rapid Qualitative Elemental Analyses of Participant-Supplied Objects at a Public Outreach Event. Journal of Chemical Education, 2016, 93, 1749-1753.	2.3	9
70	Online electrothermal heating of laser-generated aerosols: effects on aerosol particle size and signal intensities in ICPMS. Analytical and Bioanalytical Chemistry, 2011, 399, 2201-2209.	3.7	8
71	Rapid screening of boron isotope ratios in nuclear shielding materials by LA-ICPMS – a comparison of two different instrumental setups. Journal of Analytical Atomic Spectrometry, 2014, 29, 185-192.	3.0	8
72	Optimizing the analyte introduction for 14C laser ablation-AMS. Journal of Analytical Atomic Spectrometry, 2017, 32, 1813-1819.	3.0	8

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73	New Orientation: A Downward-pointing Vertical Inductively Coupled Plasma Mass Spectrometer for the Analysis of Microsamples. Analytical Chemistry, 2021, 93, 1001-1008.	6.5	8
74	A simple and soft chemical deaggregation method producing single-digit detonation nanodiamonds. Nanoscale Advances, 2022, 4, 2268-2277.	4.6	8
75	Mass spectrometry-based approaches to study lanthanides and lanthanide-dependent proteins in the phyllosphere. Methods in Enzymology, 2021, 650, 215-236.	1.0	7
76	Rapid Revelation of Radiocarbon Records with Laser Ablation Accelerator Mass Spectrometry. Chimia, 2014, 68, 215.	0.6	3
77	In situ element analysis of spodumenes by fs-LA-ICPMS with non-matrix-matched calibration: Signal beat and accuracy. Chemical Geology, 2021, 583, 120463.	3.3	3
78	Climatic variations during the Holocene inferred from radiocarbon and stable carbon isotopes in speleothems from a high-alpine cave. Climate of the Past, 2021, 17, 2165-2177.	3.4	3
79	Direct analysis of nanoparticles in organic solvents by ICPMS with microdroplet injection. Journal of Analytical Atomic Spectrometry, 2022, 37, 1738-1750.	3.0	3
80	Peptideâ€Coated Platinum Nanoparticles with Selective Toxicity against Liver Cancer Cells. Angewandte Chemie, 2019, 131, 4955-4959.	2.0	2
81	Strain-induced trace element mobility in a quartz-sulphide vein system: An example from the ONKALOâ"¢ spent nuclear fuel repository (Olkiluoto, SW Finland). Journal of Structural Geology, 2022, 154, 104473.	2.3	2
82	Element Analysis of Small and even Smaller Objects by ICPMS and LA-ICPMS. Chimia, 2014, 68, 112.	0.6	1
83	Laser Ablation ICP-MS for Single-Cell-based Tissue Imaging. Chimia, 2015, 69, 637.	0.6	1
84	A comparison of signal suppression and particle size distributions for ns- and fs-LA of metallic samples by LA-ETV-ICPMS. Journal of Analytical Atomic Spectrometry, 2017, 32, 1980-1987.	3.0	1
85	Quantification of Nanoparticles in Dispersions Using Transmission Electron Microscopy. Microscopy and Microanalysis, 2021, 27, 557-565.	0.4	1
86	Titelbild: Peptideâ€Coated Platinum Nanoparticles with Selective Toxicity against Liver Cancer Cells (Angew. Chem. 15/2019). Angewandte Chemie, 2019, 131, 4795-4795.	2.0	0
87	Age and Provenance Analysis from Micrograms of Artwork Pigments. Chimia, 2020, 74, 299.	0.6	0