

Johanna Irrgeher

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,620
citations

623188

14
h-index

377514

34
g-index

39
all docs

39
docs citations

39
times ranked

2156
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotopic compositions of the elements 2013 (IUPAC Technical Report). Pure and Applied Chemistry, 2016, 88, 293-306.	0.9	534
2	Atomic weights of the elements 2013 (IUPAC Technical Report). Pure and Applied Chemistry, 2016, 88, 265-291.	0.9	518
3	The potential of isotopically enriched magnesium to study bone implant degradation in vivo. Acta Biomaterialia, 2017, 51, 526-536.	4.1	47
4	Determination of strontium isotope amount ratios in biological tissues using MC-ICPMS. Analytical Methods, 2013, 5, 1687.	1.3	45
5	Evaluation strategies and uncertainty calculation of isotope amount ratios measured by MC-ICP-MS on the example of Sr. Analytical and Bioanalytical Chemistry, 2016, 408, 351-367.	1.9	43
6	A fully automated simultaneous single-stage separation of Sr, Pb, and Nd using DGA Resin for the isotopic analysis of marine sediments. Analytical and Bioanalytical Chemistry, 2017, 409, 5463-5480.	1.9	43
7	$^{87}\text{Sr}/^{86}\text{Sr}$ isotope ratio measurements by laser ablation multicollector inductively coupled plasma mass spectrometry: Reconsidering matrix interferences in biapatites and biogenic carbonates. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 125, 31-42.	1.5	39
8	Application of non-traditional stable isotopes in analytical ecogeochemistry assessed by MC-ICP-MS – a critical review. Analytical and Bioanalytical Chemistry, 2016, 408, 369-385.	1.9	37
9	Simultaneous multi-element and isotope ratio imaging of fish otoliths by laser ablation split stream ICP-MS/MC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2016, 31, 1612-1621.	1.6	27
10	Characterization of alloying components in galvanic anodes as potential environmental tracers for heavy metal emissions from offshore wind structures. Chemosphere, 2020, 257, 127182.	4.2	27
11	Lifetime mobility of an Arctic woolly mammoth. Science, 2021, 373, 806-808.	6.0	27
12	Ancient DNA reveals monozygotic newborn twins from the Upper Palaeolithic. Communications Biology, 2020, 3, 650.	2.0	25
13	Metallic resources in smartphones. Resources Policy, 2020, 68, 101750.	4.2	23
14	Extreme spatial variation of Sr, Nd and Pb isotopic signatures and 48 element mass fractions in surface sediment of the Elbe River Estuary - Suitable tracers for processes in dynamic environments?. Science of the Total Environment, 2019, 668, 512-523.	3.9	22
15	Sub-millimeter distribution of labile trace element fluxes in the rhizosphere explains differential effects of soil liming on cadmium and zinc uptake in maize. Science of the Total Environment, 2020, 738, 140311.	3.9	16
16	Zinc isotopic variation of water and surface sediments from the German Elbe River. Science of the Total Environment, 2020, 707, 135219.	3.9	14
17	Transgenerational marking of brown trout (<i>Salmo trutta</i> f.f.) using an ^{84}Sr spike. Fisheries Management and Ecology, 2013, 20, 354-361.	1.0	13
18	Optimisation of an extraction/leaching procedure for the characterisation and quantification of titanium dioxide (TiO_2) nanoparticles in aquatic environments using SdFFF-ICP-MS and SEM-EDX analyses. Analytical Methods, 2017, 9, 3626-3635.	1.3	13

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19	Development of a versatile analytical protocol for the comprehensive determination of the elemental composition of smartphone compartments on the example of printed circuit boards. <i>Analytical Methods</i> , 2018, 10, 3864-3871.	1.3	13
20	Individual-specific transgenerational marking of common carp <i>Cyprinus carpio</i> , L., using $^{86}\text{Sr}/^{84}\text{Sr}$ double spikes. <i>Marine and Freshwater Research</i> , 2014, 65, 978.	0.7	11
21	The performance of single and multi-collector ICP-MS instruments for fast and reliable $^{34}\text{S}/^{32}\text{S}$ isotope ratio measurements. <i>Analytical Methods</i> , 2016, 8, 7661-7672.	1.3	11
22	Analytical factors to be considered for the application of enriched strontium spikes to monitor biological systems. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 193-200.	1.6	10
23	Matrix separation of Sr and Pb for isotopic ratio analysis of Ca-rich samples via an automated simultaneous separation procedure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 151, 54-64.	1.5	10
24	Isotope pattern deconvolution of different sources of stable strontium isotopes in natural systems. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 2300-2307.	1.6	8
25	Concomitant oral intake of purified clinoptilolite tuff (G-PUR) reduces enteral lead uptake in healthy humans. <i>Scientific Reports</i> , 2021, 11, 14796.	1.6	8
26	Chemometric tools for determining site-specific elemental and strontium isotopic fingerprints in raw and salted sturgeon caviar. <i>European Food Research and Technology</i> , 2019, 245, 2515-2528.	1.6	7
27	A combined chemical imaging approach using (MC) LA-ICP-MS and NIR-HSI to evaluate the diagenetic status of bone material for Sr isotope analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 565-580.	1.9	7
28	Analysis of Seventeen Certified Water Reference Materials for Trace and Technology-Critical Elements. <i>Geostandards and Geoanalytical Research</i> , 2022, 46, 351-378.	1.7	6
29	Analysis of $^{87}\text{Sr}/^{86}\text{Sr}$, $^{88}\text{Sr}/^{86}\text{Sr}$ and elemental pattern to characterise groundwater and recharge of saline ponds in a clastic aquifer in East Austria. <i>Isotopes in Environmental and Health Studies</i> , 2019, 55, 179-198.	0.5	3
30	A double-spike MC TIMS measurement procedure for low-amount Ca isotopic analysis of limited biological tissue samples. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 675-689.	1.9	3
31	Selective Diffusive Gradients in Thin Films (DGT) for the Simultaneous Assessment of Labile Sr and Pb Concentrations and Isotope Ratios in Soils. <i>Analytical Chemistry</i> , 2022, 94, 6338-6346.	3.2	3
32	Development of a Mobile Module-Based Wind Tunnel for the Determination of Collection Efficiencies of Particulate Matter on Surface Structures. <i>Sustainability</i> , 2021, 13, 9565.	1.6	2
33	Low-level ^{40}Ca determinations using nitrous oxide with reaction cell inductively coupled plasma-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 7495-7502.	1.9	2
34	Assessing the potential of online ICP-MS analysis to optimize Ca/matrix separation using DGA Resin for subsequent isotopic analysis. <i>Monatshefte für Chemie</i> , 2021, 152, 401-410.	0.9	1
35	Applications of isotopes in analytical ecogeochemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 341-343.	1.9	0
36	Microchemical provenancing of prey remains in cormorant pellets reveals the use of diverse foraging grounds. <i>Journal of Wildlife Management</i> , 0, , .	0.7	0