

Frank F Vanhaecke

List of Publications by Year in descending order

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478
papers

19,079
citations

17776

65
h-index

32181

105
g-index

510
all docs

510
docs citations

510
times ranked

17605
citing authors

#	ARTICLE	IF	CITATIONS
1	Homeostatic alterations related to total antioxidant capacity, elemental concentrations and isotopic compositions in aqueous humor of glaucoma patients. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 515-524.	1.9	10
2	Longitudinal isotope ratio variations in human hair and nails. <i>Science of the Total Environment</i> , 2022, 808, 152059.	3.9	8
3	Strontium isotopic analysis of environmental microsamples by inductively coupled plasma " tandem mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 103-113.	1.6	3
4	Decoupling of chemical and isotope fractionation processes during atmospheric heating of micrometeorites. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 324, 221-239.	1.6	6
5	Living in a transient world: ICP-MS reinvented <i>via</i> time-resolved analysis for monitoring single events. <i>Chemical Science</i> , 2022, 13, 4436-4473.	3.7	35
6	Laser ablation-ICP-mass spectrometry for determination of the concentrations and spatial distributions of bromine and iodine in human hair. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 775-782.	1.6	9
7	Characterization of achondritic cosmic spherules from the WiderÅefjellet micrometeorite collection (SÅr Rondane Mountains, East Antarctica). <i>Geochimica Et Cosmochimica Acta</i> , 2022, 325, 106-128.	1.6	4
8	Complementarity of LA-ICP-MS and petrography in the analysis of Neolithic pottery from the Scheldt River valley, Belgium. <i>Journal of Archaeological Science: Reports</i> , 2022, 42, 103413.	0.2	0
9	Light triggered nanoscale biolistics for efficient intracellular delivery of functional macromolecules in mammalian cells. <i>Nature Communications</i> , 2022, 13, 1996.	5.8	10
10	Resolving impact volatilization and condensation from target rock mixing and hydrothermal overprinting within the Chicxulub impact structure. <i>Geoscience Frontiers</i> , 2022, 13, 101410.	4.3	2
11	Emerging applications of high-precision Cu isotopic analysis by MC-ICP-MS. <i>Science of the Total Environment</i> , 2022, 838, 156084.	3.9	8
12	High-speed mapping of Hg and Se in biological tissue <i>via</i> laser ablation-inductively coupled plasma-mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1455-1461.	1.6	9
13	Copper at ancient Kerma: A diachronic investigation of alloys and raw materials. <i>Advances in Archaeomaterials</i> , 2022, 3, 1-18.	0.4	1
14	Quantification of uranium, plutonium, neodymium and gadolinium for the characterization of spent nuclear fuel using isotope dilution HPIC-SF-ICP-MS. <i>Talanta</i> , 2021, 221, 121592.	2.9	14
15	Inter-comparison of stable iron, copper and zinc isotopic compositions in six reference materials of biological origin. <i>Talanta</i> , 2021, 221, 121576.	2.9	16
16	New constraints on the formation of main group pallasites derived from in situ trace element analysis and 2D mapping of olivine and phosphate. <i>Chemical Geology</i> , 2021, 562, 119996.	1.4	4
17	High-precision isotopic analysis of essential mineral elements: capabilities as a diagnostic/prognostic tool. <i>View</i> , 2021, 2, 20200094.	2.7	22
18	Concentration and isotopic composition of bromine and chlorine in Antarctic sea ice. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 293, 18-27.	1.6	1

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19	Recent developments in mass spectrometry for the characterization of micro- and nanoscale plastic debris in the environment. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 7-15.	1.9	15
20	Cytosolic delivery of gadolinium <i>via</i> photoporation enables improved <i>in vivo</i> magnetic resonance imaging of cancer cells. <i>Biomaterials Science</i> , 2021, 9, 4005-4018.	2.6	6
21	Development of methods for Mg, Sr and Pb isotopic analysis of crude oil by MC-ICP-MS: addressing the challenges of sample decomposition. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1478-1488.	1.6	4
22	Mass spectrometry as a powerful analytical tool for the characterization of indoor airborne microplastics and nanoplastics. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 695-705.	1.6	31
23	Globally distributed iridium layer preserved within the Chicxulub impact structure. <i>Science Advances</i> , 2021, 7, .	4.7	47
24	From desert ores to Middle Kingdom copper: elemental and lead isotope data from the RMAH collection, Belgium. <i>Archaeological and Anthropological Sciences</i> , 2021, 13, 1.	0.7	3
25	Distinct EH domains of the endocytic TPLATE complex confer lipid and protein binding. <i>Nature Communications</i> , 2021, 12, 3050.	5.8	23
26	Bubble Forming Films for Spatial Selective Cell Killing. <i>Advanced Materials</i> , 2021, 33, e2008379.	11.1	20
27	Robust Potassium Isotopic Analysis of Geological and Biological Samples via Multicollector ICP-Mass Spectrometry Using the "Extra-High Resolution Mode". <i>Analytical Chemistry</i> , 2021, 93, 8881-8888.	3.2	13
28	Comparison of Minimally Invasive Inductively Coupled Plasma"Mass Spectrometry Approaches for Strontium Isotopic Analysis of Medieval Stained Glass with Elevated Rubidium and Rare-Earth Element Concentrations. <i>ACS Omega</i> , 2021, 6, 18110-18122.	1.6	2
29	Bubble"Forming Films: Bubble Forming Films for Spatial Selective Cell Killing (<i>Adv. Mater.</i> 27/2021). <i>Advanced Materials</i> , 2021, 33, 2170211.	11.1	3
30	Effect of Endotoxemia Induced by Intraperitoneal Injection of Lipopolysaccharide on the Mg isotopic Composition of Biofluids and Tissues in Mice. <i>Frontiers in Medicine</i> , 2021, 8, 664666.	1.2	6
31	Australasian microtektites across the Antarctic continent: Evidence from the SÃ,r Rondane Mountain range (East Antarctica). <i>Geoscience Frontiers</i> , 2021, 12, 101153.	4.3	8
32	Single-event tandem ICP-mass spectrometry for the quantification of chemotherapeutic drug-derived Pt and endogenous elements in individual human cells. <i>Analytica Chimica Acta</i> , 2021, 1177, 338797.	2.6	14
33	Multi-isotopic and trace element evidence against different formation pathways for oyster microstructures. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 308, 326-352.	1.6	13
34	Isotopic evolution of planetary crusts by hypervelocity impacts evidenced by Fe in microtektites. <i>Nature Communications</i> , 2021, 12, 5646.	5.8	4
35	An old problem in a new light: Elemental and lead isotopic analysis of Luristan Bronzes. <i>Journal of Archaeological Science: Reports</i> , 2021, 39, 103163.	0.2	2
36	To shift, or not to shift: adequate selection of an internal standard in mass-shift approaches using tandem ICP-mass spectrometry (ICP-MS/MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1135-1149.	1.6	15

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37	Cu, Fe, and Zn isotope ratios in murine Alzheimer's disease models suggest specific signatures of amyloidogenesis and tauopathy. <i>Journal of Biological Chemistry</i> , 2021, 296, 100292.	1.6	24
38	Analytical figures of merit of a low-dispersion aerosol transport system for high-throughput LA-ICP-MS analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1201-1209.	1.6	33
39	Photothermal nanofibres enable safe engineering of therapeutic cells. <i>Nature Nanotechnology</i> , 2021, 16, 1281-1291.	15.6	192
40	Characterization of Gold Nanorods Conjugated with Synthetic Glycopolymers Using an Analytical Approach Based on spICP-SFMS and EAF4-MALS. <i>Nanomaterials</i> , 2021, 11, 2720.	1.9	2
41	Pilot study of homeostatic alterations of mineral elements in serum of patients with age-related macular degeneration via elemental and isotopic analysis using ICP-mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 177, 112857.	1.4	14
42	Development, validation and application of an inductively coupled plasma μ mass spectrometry method to determine cobalt in metal-on-metal prosthesis patients using volumetric absorptive microsampling. <i>Talanta</i> , 2020, 208, 120055.	2.9	21
43	Detection of microplastics using inductively coupled plasma-mass spectrometry (ICP-MS) operated in single-event mode. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 455-460.	1.6	84
44	High-precision isotopic analysis of serum and whole blood Cu, Fe and Zn to assess possible homeostasis alterations due to bariatric surgery. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 727-738.	1.9	17
45	Cosmic spherules from WiderÅefjellet, SÅr Rondane Mountains (East Antarctica). <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 112-143.	1.6	28
46	Cu and Zn isotope ratio variations in plasma for survival prediction in hematological malignancy cases. <i>Scientific Reports</i> , 2020, 10, 16389.	1.6	27
47	Isotopic evidence for the use of Caucasian antimony in Late Bronze Age glass making. <i>Journal of Archaeological Science</i> , 2020, 120, 105195.	1.2	13
48	Evidence for the presence of chondrule μ and CAI μ derived material in an isotopically anomalous Antarctic micrometeorite. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2703-2726.	0.7	8
49	Multicollector Inductively Coupled Plasma μ Mass Spectrometry with 10 ¹³ $\hat{\text{C}}$ Faraday Cup Amplifiers for Ultrasensitive Mg Isotopic Analysis of Cerebrospinal Fluid Microsamples. <i>Analytical Chemistry</i> , 2020, 92, 15975-15981.	3.2	9
50	Feasibility of Mechanical Extrusion to Coat Nanoparticles with Extracellular Vesicle Membranes. <i>Cells</i> , 2020, 9, 1797.	1.8	32
51	High-precision isotopic analysis of Mg and Ca in biological samples using multi-collector ICP-mass spectrometry after their sequential chromatographic isolation μ Application to the characterization of the body distribution of Mg and Ca isotopes in mice. <i>Analytica Chimica Acta</i> , 2020, 1130, 137-145.	2.6	18
52	Characterization of iron oxide nanoparticles by means of single-particle ICP-mass spectrometry (SP-ICP-MS) μ chemical <i>versus</i> physical resolution to overcome spectral overlap. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2023-2032.	1.6	22
53	Multi-element LA-ICP-MS analysis of the clay fraction of archaeological pottery in provenance studies: a methodological investigation. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2686-2696.	1.6	9
54	Characterization of the new isotopic reference materials IRMM-524A and ERM-AE143 for Fe and Mg isotopic analysis of geological and biological samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2517-2529.	1.6	20

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55	Breaking the boundaries in spectrometry. Molecular analysis with atomic spectrometric techniques. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 129, 115955.	5.8	23
56	Synergy between Intraperitoneal Aerosolization (PIPAC) and Cancer Nanomedicine: Cisplatin-Loaded Polyarginine-Hyaluronic Acid Nanocarriers Efficiently Eradicate Peritoneal Metastasis of Advanced Human Ovarian Cancer. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29024-29036.	4.0	19
57	Sub-micrometer Nanosecond LA-ICP-MS Imaging at Pixel Acquisition Rates above 250 Hz via a Low-Dispersion Setup. <i>Analytical Chemistry</i> , 2020, 92, 5756-5764.	3.2	60
58	Enhancement of Biomimetic Enzymatic Mineralization of Gellan Gum Polysaccharide Hydrogels by Plant-Derived Gallotannins. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2315.	1.8	12
59	Innovative two-step isolation of Ni prior to stable isotope ratio measurements by MC-ICP-MS: application to igneous geological reference materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2213-2223.	1.6	8
60	Shell chemistry of the boreal Campanian bivalve <i>Rastellum diluvianum</i> (Linnaeus, 1767) reveals temperature seasonality, growth rates and life cycle of an extinct Cretaceous oyster. <i>Biogeosciences</i> , 2020, 17, 2897-2922.	1.3	8
61	Method development for on-line species-specific sulfur isotopic analysis by means of capillary electrophoresis/multicollector ICP-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5637-5646.	1.9	7
62	Nanosecond Laser Ablation-Multicollector Inductively Coupled Plasma-Mass Spectrometry for in Situ Fe Isotopic Analysis of Micrometeorites: Application to Micrometer-Sized Glassy Cosmic Spherules. <i>Analytical Chemistry</i> , 2020, 92, 3572-3580.	3.2	17
63	Subdaily-scale Chemical Variability in a <i>Torreites Sanchezi</i> Rudist Shell: Implications for Rudist Paleobiology and the Cretaceous Day-Night Cycle. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2019PA003723.	1.3	26
64	Interactions of Cisplatin and Daunorubicin at the Chromatin Level. <i>Scientific Reports</i> , 2020, 10, 1107.	1.6	8
65	Determination of the lanthanides, uranium and plutonium by means of on-line high-pressure ion chromatography coupled with sector field inductively coupled plasma-mass spectrometry to characterize nuclear samples. <i>Journal of Chromatography A</i> , 2020, 1617, 460839.	1.8	13
66	Reconstructing seasonality through stable-isotope and trace-element analyses of the Proserpine stalagmite, Han-sur-Lesse cave, Belgium: indications for climate-driven changes during the last 400 years. <i>Climate of the Past</i> , 2020, 16, 141-160.	1.3	12
67	Lighter serum copper isotopic composition in patients with early non-alcoholic fatty liver disease. <i>BMC Research Notes</i> , 2020, 13, 225.	0.6	14
68	Joint Forces of HR-SPICP-MS and EAF4-MALS for Characterization of Gold Nanorods Conjugated with Synthetic Glycopolymers. <i>Materials Proceedings</i> , 2020, 4, .	0.2	0
69	Selenium and iodine in diabetes mellitus with a focus on the interplay and speciation of the elements. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 56, 69-80.	1.5	22
70	Laser ablation-tandem ICP-mass spectrometry (LA-ICP-MS/MS) imaging of iron oxide nanoparticles in Ca-rich gelatin microspheres. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1846-1855.	1.6	11
71	Selective ablation of biological tissue and single cells on a glass substrate by controlling the laser energy density of nanosecond 193 nm laser radiation. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1957-1964.	1.6	13
72	Development of a method for the quantitative metabolite profiling of pharmaceutical drugs using HPLC-ICP-MS following pre-column derivatization of their amino and hydroxyl groups using 4-aminopyridine as a model compound. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 708-715.	1.6	3

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73	High-precision isotopic analysis sheds new light on mercury metabolism in long-finned pilot whales (<i>Globicephala melas</i>). <i>Scientific Reports</i> , 2019, 9, 7262.	1.6	45
74	Multi-collector ICP-mass spectrometry reveals changes in the serum Mg isotopic composition in diabetes type I patients. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1514-1521.	1.6	18
75	On the effect of using collision/reaction cell (CRC) technology in single-particle ICP-mass spectrometry (SP-ICP-MS). <i>Analytica Chimica Acta</i> , 2019, 1077, 95-106.	2.6	56
76	Cellular and sub-cellular Cu isotope fractionation in the human neuroblastoma SH-SY5Y cell line: proliferating versus neuron-like cells. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4963-4971.	1.9	18
77	Body distribution of stable copper isotopes during the progression of cholestatic liver disease induced by common bile duct ligation in mice. <i>Metallomics</i> , 2019, 11, 1093-1103.	1.0	25
78	High-resolution imaging and single-cell analysis via laser ablation-inductively coupled plasma-mass spectrometry for the determination of membranous receptor expression levels in breast cancer cell lines using receptor-specific hybrid tracers. <i>Analytica Chimica Acta</i> , 2019, 1074, 43-53.	2.6	53
79	Meteoroid atmospheric entry investigated with plasma flow experiments: Petrography and geochemistry of the recovered material. <i>Icarus</i> , 2019, 331, 170-178.	1.1	6
80	Differentiating the geographical origin of Ethiopian coffee using XRF- and ICP-based multi-element and stable isotope profiling. <i>Food Chemistry</i> , 2019, 290, 295-307.	4.2	36
81	Characterizing the Eemian-Weichselian transition in northwestern Europe with three multiproxy speleothem archives from the Belgian Han-sur-Lesse and Remouchamps cave systems. <i>Quaternary Science Reviews</i> , 2019, 208, 21-37.	1.4	9
82	Three-dimensional reconstruction of the distribution of elemental tags in single cells using laser ablation ICP-mass spectrometry via registration approaches. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4849-4859.	1.9	22
83	Impaired brain glymphatic flow in experimental hepatic encephalopathy. <i>Journal of Hepatology</i> , 2019, 70, 40-49.	1.8	55
84	Attaching Photochemically Active Ruthenium Polypyridyl Complex Units to Amorphous Hydrogenated Carbon (aâ€C:H) Layers. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801308.	1.9	4
85	Progress in hydrometallurgical technologies to recover critical raw materials and precious metals from low-concentrated streams. <i>Resources, Conservation and Recycling</i> , 2019, 142, 177-188.	5.3	73
86	Tracing Mercury Pollution along the Norwegian Coast via Elemental, Speciation, and Isotopic Analysis of Liver and Muscle Tissue of Deep-Water Marine Fish (<i>Brosme brosme</i>). <i>Environmental Science & Technology</i> , 2019, 53, 1776-1785.	4.6	38
87	Pectin-bioactive glass self-gelling, injectable composites with high antibacterial activity. <i>Carbohydrate Polymers</i> , 2019, 205, 427-436.	5.1	39
88	Direct lead isotopic analysis of bioethanol by means of multi-collector ICP-mass spectrometry with a total consumption sample introduction system. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 481-490.	1.6	3
89	A pre-column derivatization method allowing quantitative metabolite profiling of carboxyl and phenolic hydroxyl group containing pharmaceuticals in human plasma <i>via</i> liquid chromatography-inductively coupled plasma-tandem mass spectrometry (LC-ICP-MS/MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 274-282.	1.6	3
90	Cu isotope fractionation response to oxidative stress in a hepatic cell line studied using multi-collector ICP-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2385-2394.	1.9	22

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91	Novel injectable gellan gum hydrogel composites incorporating Zn- and Sr-enriched bioactive glass microparticles: High-resolution X-ray microcomputed tomography, antibacterial and in vitro testing. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1313-1326.	1.3	31
92	Comparative evaluation of ICP sample introduction systems to be used in the metabolite profiling of chlorine-containing pharmaceuticals via HPLC-ICP-MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 153, 135-144.	1.4	12
93	Imaging Artifacts in Continuous Scanning 2D LA-ICPMS Imaging Due to Nonsynchronization Issues. <i>Analytical Chemistry</i> , 2018, 90, 2896-2901.	3.2	24
94	Assessment of Nanosecond Laser Ablation Multi-Collector Inductively Coupled Plasma-Mass Spectrometry for Pb and Sr Isotopic Determination in Archaeological Glass: Mass Bias Correction Strategies and Results for Corning Glass Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 223-238.	1.7	12
95	Cu isotope ratio shifts in common bile duct ligated mice and correlates with the degree of cholestatic-induced liver disease. <i>Journal of Hepatology</i> , 2018, 68, S455.	1.8	0
96	Mineralization of gellan gum hydrogels with calcium and magnesium carbonates by alternate soaking in solutions of calcium/magnesium and carbonate ion solutions. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1825-1834.	1.3	18
97	Novel self-gelling injectable hydrogel/alpha-tricalcium phosphate composites for bone regeneration: Physiochemical and microcomputer tomographical characterization. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 822-828.	2.1	36
98	High-performance liquid chromatography coupled to inductively coupled plasma-Mass spectrometry (HPLC-ICP-MS) for quantitative metabolite profiling of non-metal drugs. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 104, 118-134.	5.8	27
99	Identification of platinum nanoparticles in road dust leachate by single particle inductively coupled plasma-mass spectrometry. <i>Science of the Total Environment</i> , 2018, 615, 849-856.	3.9	47
100	Considerations on data acquisition in laser ablation-inductively coupled plasma-mass spectrometry with low-dispersion interfaces. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 140, 29-34.	1.5	25
101	The role of arbuscular mycorrhiza in mercury and mineral nutrient uptake in maize. <i>Chemosphere</i> , 2018, 212, 1076-1084.	4.2	41
102	Extreme isotopic variation documents extensional tectonics in arc magmas from Methana, Greece. <i>Lithos</i> , 2018, 318-319, 386-398.	0.6	12
103	Light Absorption Coefficient of CsPbBr ₃ Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3093-3097.	2.1	219
104	Characterisation of Byzantine and early Islamic primary tank furnace glass. <i>Journal of Archaeological Science: Reports</i> , 2018, 20, 722-735.	0.2	3
105	Quantification and isotopic analysis of bulk and of exchangeable and ultrafiltrable serum copper in healthy and alcoholic cirrhosis subjects. <i>Talanta</i> , 2018, 189, 332-338.	2.9	18
106	Ultra-trace Cu isotope ratio measurements via multi-collector ICP-mass spectrometry using Ga as internal standard: an approach applicable to micro-samples. <i>Analytica Chimica Acta</i> , 2018, 1025, 69-79.	2.6	20
107	Composites of gellan gum hydrogel enzymatically mineralized with calcium-zinc phosphate for bone regeneration with antibacterial activity. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 1610-1618.	1.3	23
108	Bioinspired, biomimetic, double-enzymatic mineralization of hydrogels for bone regeneration with calcium carbonate. <i>Materials Letters</i> , 2017, 190, 13-16.	1.3	32

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109	Evaluation of the use of cold plasma conditions for Fe isotopic analysis via multi-collector ICP-mass spectrometry: effect on spectral interferences and instrumental mass discrimination. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 538-547.	1.6	18
110	High-precision isotopic analysis of Cu in blood serum via multi-collector ICP-mass spectrometry for clinical investigation: steps towards improved robustness and higher sample throughput. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 597-608.	1.6	21
111	Overcoming spectral overlap via inductively coupled plasma-tandem mass spectrometry (ICP-MS/MS). A tutorial review. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1660-1679.	1.6	138
112	Iron isotopic composition of blood serum in anemia of chronic kidney disease. <i>Metallomics</i> , 2017, 9, 517-524.	1.0	31
113	TiO ₂ functionalized nanofibrous membranes for removal of organic (micro)pollutants from water. <i>Separation and Purification Technology</i> , 2017, 179, 533-541.	3.9	39
114	Three-Dimensional Reconstruction of the Tissue-Specific Multielemental Distribution within <i>Ceriodaphnia dubia</i> via Multimodal Registration Using Laser Ablation ICP-Mass Spectrometry and X-ray Spectroscopic Techniques. <i>Analytical Chemistry</i> , 2017, 89, 4161-4168.	3.2	35
115	A comparison of laser ablation-inductively coupled plasma-mass spectrometry and high-resolution continuum source graphite furnace molecular absorption spectrometry for the direct determination of bromine in polymers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 132, 50-55.	1.5	13
116	Development and validation of a novel quantification approach for gradient elution reversed phase high-performance liquid chromatography coupled to tandem ICP-mass spectrometry (RP-HPLC-ICP-MS/MS) and its application to diclofenac and its related compounds. <i>Analytica Chimica Acta</i> , 2017, 974, 43-53.	2.6	24
117	Natural Fe isotope fractionation in an intestinal Caco-2 cell line model. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1713-1720.	1.6	18
118	Determination of the isotopic composition of sub-ng amounts of Sr in Antarctic snow by multi-collector ICP-mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1004-1008.	1.6	7
119	Combining Dispersed Particle Extraction with Dried-Droplet Laser Ablation ICP-MS for Determining Platinum in Airborne Particulate Matter. <i>Applied Spectroscopy</i> , 2017, 71, 1613-1620.	1.2	3
120	Elemental and isotopic analysis of oral squamous cell carcinoma tissues using sector-field and multi-collector ICP-mass spectrometry. <i>Talanta</i> , 2017, 165, 92-97.	2.9	20
121	Petrography and geochemistry of distal spherules from the KÄPg boundary in the UmbriaÄ Marche region (Italy) and their origin as fractional condensates and melts in the Chicxulub impact plume. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 202, 231-263.	1.6	15
122	Iron isotopic analysis of finger-prick and venous blood by multi-collector inductively coupled plasma-mass spectrometry after volumetric absorptive microsampling. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 314-321.	1.6	17
123	Quantitative Metabolite Profiling of an Amino Group Containing Pharmaceutical in Human Plasma via Precolumn Derivatization and High-Performance Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 1907-1915.	3.2	7
124	Imaging the 3D trace metal and metalloid distribution in mature wheat and rye grains via laser ablation-ICP-mass spectrometry and micro-X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 289-298.	1.6	31
125	Traditional fermentation of tef injera: Impact on in vitro iron and zinc dialysability. <i>Food Research International</i> , 2017, 102, 93-100.	2.9	15
126	Thermal equilibration of iron meteorite and pallasite parent bodies recorded at the mineral scale by Fe and Ni isotope systematics. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 217, 95-111.	1.6	15

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127	Characterization of SiO ₂ nanoparticles by single particle-inductively coupled plasma-tandem mass spectrometry (SP-ICP-MS/MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 2140-2152.	1.6	40
128	Evidence for a chondritic impactor, evaporation-condensation effects and melting of the Precambrian basement beneath the "target" Deccan basalts at Lonar crater, India. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 215, 51-75.	1.6	16
129	Tropical seasonality in the late Campanian (late Cretaceous): Comparison between multiproxy records from three bivalve taxa from Oman. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 485, 740-760.	1.0	27
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