

Uwe Karst

List of Publications by Year in descending order

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312
papers

8,731
citations

47409

49
h-index

93651

72
g-index

322
all docs

322
docs citations

322
times ranked

10746
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an electrochemical flow-through cell for the fast and easy generation of isotopically labeled metabolite standards. <i>Drug Testing and Analysis</i> , 2022, 14, 262-268.	1.6	10
2	Fingerprints of Element Concentrations in Infective Endocarditis Obtained by Mass Spectrometric Imaging and t-Distributed Stochastic Neighbor Embedding. <i>ACS Infectious Diseases</i> , 2022, 8, 360-372.	1.8	5
3	Combined speciation analysis and elemental bioimaging provide new insight into gadolinium retention in kidney. <i>Metallomics</i> , 2022, 14, .	1.0	3
4	Quantitative elemental bioimaging: an antibody-based double-labelling method to quantify the cell-specific distribution of silver nanoparticles in lung tissue sections. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1084-1089.	1.6	1
5	Tattoo Pigment Identification in Inks and Skin Biopsies of Adverse Reactions by Complementary Elemental and Molecular Bioimaging with Mass Spectral Library Matching. <i>Analytical Chemistry</i> , 2022, 94, 3581-3589.	3.2	6
6	Label-free identification and quantification of nanoparticles in single cells by combining digital holographic microscopy and mass spectrometry. , 2022, , .		0
7	A simple preparation protocol for shipping and storage of tissue sections for laser ablation-inductively coupled plasma-mass spectrometry imaging. <i>Metallomics</i> , 2022, 14, .	1.0	4
8	Species-dependent interaction of Gd-based contrast agents with humic substances. <i>Chemosphere</i> , 2022, 300, 134528.	4.2	3
9	Gadolinium retention in the tunica media of arterial walls—a complementary study using elemental bioimaging and immunogold staining. <i>Metallomics</i> , 2022, 14, .	1.0	0
10	Beta-Carotene Affects the Effects of Heme Oxygenase-1 in Isolated, Ischemic/Reperfused Rat Hearts: Potential Role of the Iron. <i>Molecules</i> , 2022, 27, 3039.	1.7	2
11	LA-ICP-MS and Immunohistochemical Staining with Lanthanide-Labeled Antibodies to Study the Uptake of CeO ₂ Nanoparticles by Macrophages in Tissue Sections. <i>Chemical Research in Toxicology</i> , 2022, 35, 981-991.	1.7	3
12	Iron Oxide Nanoparticles for Visualization of Prostate Cancer in MRI. <i>Cancers</i> , 2022, 14, 2909.	1.7	7
13	Long-term Gadolinium Retention in the Healthy Rat Brain: Comparison between Gadopichlenol, Gadobutrol, and Gadodiamide. <i>Radiology</i> , 2022, 305, 179-189.	3.6	12
14	Elemental bioimaging of Zn and Cd in leaves of hyperaccumulator <i>Arabidopsis halleri</i> using laser ablation-inductively coupled plasma-mass spectrometry and referencing strategies. <i>Chemosphere</i> , 2022, 305, 135267.	4.2	5
15	Elucidation of Compositional Inhomogeneities in LiNi _x Co _y Mn _z O ₂ by Single Particle Laser Ablation-Inductive Coupled Plasma-Mass Spectrometry. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 411-411.	0.0	0
16	Determination of metal uptake in single organisms, <i>Corophium volutator</i> , via complementary electrothermal vaporization/inductively coupled plasma mass spectrometry and laser ablation/inductively coupled plasma mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8953.	0.7	3
17	Automated Chiral Analysis of Amino Acids Based on Chiral Derivatization and Trapped Ion Mobility—Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 878-885.	3.2	32
18	Deposition patterns of iatrogenic lanthanum and gadolinium in the human body depend on delivered chemical binding forms. <i>Journal of Trace Elements in Medicine and Biology</i> , 2021, 63, 126665.	1.5	13

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19	Determination of gadolinium MRI contrast agents in fresh and oceanic waters of Australia employing micro-solid phase extraction, HILIC-ICP-MS and bandpass mass filtering. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 767-775.	1.6	23
20	Complementing Matrix-Assisted Laser Desorption Ionization-Mass Spectrometry Imaging with Chromatography Data for Improved Assignment of Isobaric and Isomeric Phospholipids Utilizing Trapped Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 2135-2143.	3.2	21
21	Elastin-specific MRI of extracellular matrix-remodelling following hepatic radiofrequency-ablation in a VX2 liver tumor model. <i>Scientific Reports</i> , 2021, 11, 6814.	1.6	1
22	Simulation of the oxidative metabolization pattern of netupitant, an NK1 receptor antagonist, by electrochemistry coupled to mass spectrometry. <i>Journal of Pharmaceutical Analysis</i> , 2021, 11, 661-666.	2.4	2
23	Effect of Doxycycline on Survival in Abdominal Aortic Aneurysms in a Mouse Model. <i>Contrast Media and Molecular Imaging</i> , 2021, 2021, 1-9.	0.4	3
24	Spatially and size-resolved analysis of gold nanoparticles in rat spleen after intratracheal instillation by laser ablation-inductively coupled plasma-mass spectrometry. <i>Metallomics</i> , 2021, 13, .	1.0	5
25	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. <i>Nature Communications</i> , 2021, 12, 3832.	5.8	119
26	Use of <i>C. elegans</i> as a 3R-compliant in vivo model for the chemoprevention of cisplatin-induced neurotoxicity. <i>Experimental Neurology</i> , 2021, 341, 113705.	2.0	12
27	A fast and automated separation and quantification method for bromine speciation analyzing bromide and 5-bromo-2- ³² P-deoxyuridine in enzymatically digested DNA samples via ion chromatography-inductively coupled plasma-mass spectrometry. <i>Journal of Chromatography A</i> , 2021, 1652, 462370.	1.8	0
28	Mild Dissolution/Recomplexation Strategy for Speciation Analysis of Gadolinium from MR Contrast Agents in Bone Tissues by Means of HPLC-ICP-MS. <i>Analytical Chemistry</i> , 2021, 93, 11398-11405.	3.2	11
29	Microscale Parallel Synthesis of Acylated Aminotriazoles Enabling the Development of Factor XIIa and Thrombin Inhibitors. <i>ChemMedChem</i> , 2021, 16, 3672-3690.	1.6	11
30	Microfluidic Electrochemistry Meets Trapped Ion Mobility Spectrometry and High-Resolution Mass Spectrometry—In Situ Generation, Separation, and Detection of Isomeric Conjugates of Paracetamol and Ethoxyquin. <i>Analytical Chemistry</i> , 2021, 93, 12740-12747.	3.2	4
31	Anesthesia triggers drug delivery to experimental glioma in mice by hijacking caveolar transport. <i>Neuro-Oncology Advances</i> , 2021, 3, vdab140.	0.4	10
32	Gadolinium Tissue Distribution in a Large-Animal Model after a Single Dose of Gadolinium-based Contrast Agents. <i>Radiology</i> , 2021, 301, 637-642.	3.6	17
33	Plug-and-play laser ablation-mass spectrometry for molecular imaging by means of dielectric barrier discharge ionization. <i>Analytica Chimica Acta</i> , 2021, 1177, 338770.	2.6	12
34	Basic Pharmacological Characterization of EV-34, a New H ₂ S-Releasing Ibuprofen Derivative. <i>Molecules</i> , 2021, 26, 599.	1.7	7
35	Fast and automated monitoring of gadolinium-based contrast agents in surface waters. <i>Water Research</i> , 2021, 207, 117836.	5.3	9
36	Visualization and Quantification of the Extracellular Matrix in Prostate Cancer Using an Elastin Specific Molecular Probe. <i>Biology</i> , 2021, 10, 1217.	1.3	2

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37	Weighted Linear Regression Improves Accuracy of Quantitative Elemental Bioimaging by Means of LA-ICP-MS. <i>Analytical Chemistry</i> , 2021, 93, 15720-15727.	3.2	10
38	Mass Spectrometry Imaging of atherosclerosis-affine Gadofluorine following Magnetic Resonance Imaging. <i>Scientific Reports</i> , 2020, 10, 79.	1.6	9
39	Multimodal imaging of hallucinogens 25Câ€•and 25Iâ€•NBOMe on blotter papers. <i>Drug Testing and Analysis</i> , 2020, 12, 465-471.	1.6	8
40	Fast Online Separation and Identification of Electrochemically Generated Isomeric Oxidation Products by Trapped Ion Mobilityâ€•Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 1205-1210.	3.2	10
41	Effect of Long-Term Retention of Gadolinium on Metabolism of Deep Cerebellar Nuclei After Repeated Injections of Gadodiamide in Rats. <i>Investigative Radiology</i> , 2020, 55, 120-128.	3.5	18
42	Acylated 1<i>H</i>-1,2,4-Triazol-5-amines Targeting Human Coagulation Factor XIIIa and Thrombin: Conventional and Microscale Synthesis, Anticoagulant Properties, and Mechanism of Action. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 13159-13186.	2.9	21
43	Complementary approach for analysis of phospholipids by liquid chromatography hyphenated to elemental and molecular mass spectrometry. <i>Analytical Science Advances</i> , 2020, 1, 46.	1.2	3
44	Elemental bioimaging of Na distribution in roots of <i>Arabidopsis thaliana</i> using laser ablation-ICP-MS under cold plasma conditions. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2057-2063.	1.6	6
45	Identification and differentiation of commercial and military explosives via high performance liquid chromatography â€• high resolution mass spectrometry (HPLC-HRMS), X-ray diffractometry (XRD) and X-ray fluorescence spectroscopy (XRF): Towards a forensic substance database on explosives. <i>Forensic Science International</i> , 2020, 308, 110180.	1.3	15
46	Massâ€•Spectrometric Imaging of Electrode Surfacesâ€•a View on Electrochemical Side Reactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20428-20433.	7.2	13
47	Ex vivo magnetic particle imaging of vascular inflammation in abdominal aortic aneurysm in a murine model. <i>Scientific Reports</i> , 2020, 10, 12410.	1.6	16
48	Hydroperoxylated vs Dihydroxylated Lipids: Differentiation of Isomeric Cardiolipin Oxidation Products by Multidimensional Separation Techniques. <i>Analytical Chemistry</i> , 2020, 92, 12010-12016.	3.2	11
49	Massâ€•Spectrometric Imaging of Electrode Surfacesâ€•a View on Electrochemical Side Reactions. <i>Angewandte Chemie</i> , 2020, 132, 20608-20613.	1.6	3
50	LC-ICP-MS method for the determination of â€œextractable copperâ€•in serum. <i>Metallomics</i> , 2020, 12, 1348-1355.	1.0	31
51	Detection of doxorubicin, cisplatin and therapeutic antibodies in formalin-fixed paraffin-embedded human cancer cells. <i>Histochemistry and Cell Biology</i> , 2020, 153, 367-377.	0.8	10
52	Phytoremediation of Soil Contaminated with Lithium Ion Battery Active Materialsâ€•A Proof-of-Concept Study. <i>Recycling</i> , 2020, 5, 26.	2.3	8
53	A mass spectrometry-based approach gives new insight into organotinâ€•protein interactions. <i>Metallomics</i> , 2020, 12, 1702-1712.	1.0	2
54	Tofacitinib and Baricitinib Are Taken up by Different Uptake Mechanisms Determining the Efficacy of Both Drugs in RA. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6632.	1.8	13

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55	Simultaneous molecular MRI of extracellular matrix collagen and inflammatory activity to predict abdominal aortic aneurysm rupture. <i>Scientific Reports</i> , 2020, 10, 15206.	1.6	14
56	Assessment of the hepatic tumor extracellular matrix using elastin-specific molecular magnetic resonance imaging in an experimental rabbit cancer model. <i>Scientific Reports</i> , 2020, 10, 20785.	1.6	4
57	Heme Degradation in Pathophysiology of and Countermeasures to Inflammation-Associated Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9698.	1.8	23
58	Electrochemically Simulated Oxidative Metabolization Pattern of Neurokinin-1 Antagonist Aprepitant. <i>Journal of the Electrochemical Society</i> , 2020, 167, 085502.	1.3	0
59	ArrhythmoGenoPharmacotherapy. <i>Frontiers in Pharmacology</i> , 2020, 11, 616.	1.6	20
60	Preclinical evaluation of platinum-loaded hydroxyapatite nanoparticles in an embryonic zebrafish xenograft model. <i>Nanoscale</i> , 2020, 12, 13582-13594.	2.8	13
61	Targeting of radioactive platinum-bisphosphonate anticancer drugs to bone of high metabolic activity. <i>Scientific Reports</i> , 2020, 10, 5889.	1.6	15
62	Is Small Fiber Neuropathy Induced by Gadolinium-Based Contrast Agents?. <i>Investigative Radiology</i> , 2020, 55, 473-480.	3.5	28
63	Gadolinium deposition in the brain of dogs after multiple intravenous administrations of linear gadolinium based contrast agents. <i>PLoS ONE</i> , 2020, 15, e0227649.	1.1	10
64	Noninvasive imaging of vascular permeability to predict the risk of rupture in abdominal aortic aneurysms using an albumin-binding probe. <i>Scientific Reports</i> , 2020, 10, 3231.	1.6	14
65	Toward precise arterial input functions derived from DCE-MRI through a novel extracorporeal circulation approach in mice. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1404-1415.	1.9	6
66	Fast simultaneous quantification of gabapentin and cetirizine in cell lysates by means of HPLC-MS/MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 184, 113172.	1.4	5
67	Simultaneous Detection of Zinc and Its Pathway Metabolites Using MALDI MS Imaging of Prostate Tissue. <i>Analytical Chemistry</i> , 2020, 92, 3171-3179.	3.2	32
68	Revealing Silver Nanoparticle Uptake by Macrophages Using SR- μ XRF and LA-ICP-MS. <i>Chemical Research in Toxicology</i> , 2020, 33, 1250-1255.	1.7	15
69	About the selectivity and reactivity of active nickel electrodes in C-C coupling reactions. <i>RSC Advances</i> , 2020, 10, 14249-14253.	1.7	13
70	The Role of Autophagy and Death Pathways in Dose-dependent Isoproterenol-induced Cardiotoxicity. <i>Current Pharmaceutical Design</i> , 2019, 25, 2192-2198.	0.9	21
71	Dataset on structure, stability and myocardial effects of a new hybrid aspirin containing nitrogen monoxide-releasing molsidomine moiety. <i>Data in Brief</i> , 2019, 25, 104146.	0.5	1
72	Effects of Single Nucleotide Polymorphism Ala270Ser (rs316019) on the Function and Regulation of hOCT2. <i>Biomolecules</i> , 2019, 9, 578.	1.8	9

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73	An integrative approach to cisplatin chronic toxicities in mice reveals importance of organic cation-transporter-dependent protein networks for renoprotection. <i>Archives of Toxicology</i> , 2019, 93, 2835-2848.	1.9	16
74	Introducing Specificity to Iron Oxide Nanoparticle Imaging by Combining ⁵⁷ Fe-Based MRI and Mass Spectrometry. <i>Nano Letters</i> , 2019, 19, 7908-7917.	4.5	26
75	Allergic reaction to a green tattoo with nickel as a possible allergen. <i>Contact Dermatitis</i> , 2019, 81, 64-66.	0.8	18
76	LA-ICP-TOF-MS for rapid, all-elemental and quantitative bioimaging, isotopic analysis and the investigation of plasma processes. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 694-701.	1.6	30
77	CIPK11-Dependent Phosphorylation Modulates FIT Activity to Promote Arabidopsis Iron Acquisition in Response to Calcium Signaling. <i>Developmental Cell</i> , 2019, 48, 726-740.e10.	3.1	89
78	A High-Calorie Diet Aggravates Mitochondrial Dysfunction and Triggers Severe Liver Damage in Wilson Disease Rats. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2019, 7, 571-596.	2.3	50
79	Quantitative imaging of platinum-based antitumor complexes in bone tissue samples using LA-ICP-MS. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 54, 98-102.	1.5	15
80	Electrically-Induced Ventricular Fibrillation Alters Cardiovascular Function and Expression of Apoptotic and Autophagic Proteins in Rat Hearts. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1628.	1.8	7
81	Concurrent Molecular Magnetic Resonance Imaging of Inflammatory Activity and Extracellular Matrix Degradation for the Prediction of Aneurysm Rupture. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e008707.	1.3	32
82	Inhibited autophagy may contribute to heme toxicity in cardiomyoblast cells. <i>Biochemical and Biophysical Research Communications</i> , 2019, 511, 732-738.	1.0	8
83	A new, vasoactive hybrid aspirin containing nitrogen monoxide-releasing molsidomine moiety. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 131, 159-166.	1.9	6
84	Compound-specific adaptation of hepatoma cell lines to toxic iron. <i>Metallomics</i> , 2019, 11, 1836-1846.	1.0	3
85	Gadolinium Deposition in the Brain in a Large Animal Model. <i>Investigative Radiology</i> , 2019, 54, 531-536.	3.5	53
86	⁵⁷ Fe XRF and LA-ICP-TQMS for quantitative bioimaging of iron in organ samples of a hemochromatosis model. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 52, 166-175.	1.5	12
87	Spatially resolved analysis of liquid crystal displays by laser ablation-atmospheric pressure chemical ionization-mass spectrometry. <i>Analytica Chimica Acta</i> , 2019, 1055, 56-64.	2.6	4
88	LA-ICP-MS/MS improves limits of detection in elemental bioimaging of gadolinium deposition originating from MRI contrast agents in skin and brain tissues. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 51, 212-218.	1.5	36
89	Quantitative dried blood spot analysis for metallodrugs by laser ablation-inductively coupled plasma-mass spectrometry. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 51, 50-56.	1.5	15
90	Laser Ablation-Aerosol Mass Spectrometry-Chemical Ionization Mass Spectrometry for Ambient Surface Imaging. <i>Analytical Chemistry</i> , 2018, 90, 4046-4053.	3.2	6

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91	Comparison of metabolic pathways of different $\hat{1}\pm$ -N-heterocyclic thiosemicarbazones. Analytical and Bioanalytical Chemistry, 2018, 410, 2343-2361.	1.9	12
92	Structure elucidation and quantification of the reduction products of anticancer Pt($\langle\text{scp}\rangle\text{iv}\langle\text{scp}\rangle$) prodrugs by electrochemistry/mass spectrometry (EC-MS). Analyst, The, 2018, 143, 1997-2001.	1.7	6
93	Endothelin-1-induced hypertrophic alterations and heme oxygenase-1 expression in cardiomyoblasts are counteracted by beta estradiol: in vitro and in vivo studies. Naunyn-Schmiedeberg's Archives of Pharmacology, 2018, 391, 371-383.	1.4	9
94	Combination of micro X-ray fluorescence spectroscopy and time-of-flight secondary ion mass spectrometry imaging for the marker-free detection of CeO ₂ nanoparticles in tissue sections. Journal of Analytical Atomic Spectrometry, 2018, 33, 491-501.	1.6	15
95	Bioimaging of the elemental distribution in cocoa beans by means of LA-ICP-TQMS. Journal of Analytical Atomic Spectrometry, 2018, 33, 187-194.	1.6	15
96	Analysis of metal-based contrast agents in medicine and the environment. TrAC - Trends in Analytical Chemistry, 2018, 104, 135-147.	5.8	26
97	Active Molybdenum-Based Anode for Dehydrogenative Coupling Reactions. Angewandte Chemie - International Edition, 2018, 57, 2450-2454.	7.2	57
98	Quantitative imaging of translocated silver following nanoparticle exposure by laser ablation-inductively coupled plasma-mass spectrometry. Analytical Methods, 2018, 10, 836-840.	1.3	12
99	Direct Photolysis of Sulfamethoxazole Using Various Irradiation Sources and Wavelength Ranges—Insights from Degradation Product Analysis and Compound-Specific Stable Isotope Analysis. Environmental Science & Technology, 2018, 52, 1225-1233.	4.6	42
100	Visualizing protoporphyrin IX formation in the dura tail of meningiomas by mass spectrometry imaging. Acta Neurochirurgica, 2018, 160, 1433-1437.	0.9	9
101	Spatially resolved quantification of gadolinium deposited in the brain of a patient treated with gadolinium-based contrast agents. Journal of Trace Elements in Medicine and Biology, 2018, 45, 125-130.	1.5	43
102	Harnessing the Maltodextrin Transport Mechanism for Targeted Bacterial Imaging: Structural Requirements for Improved in vivo Stability in Tracer Design. ChemMedChem, 2018, 13, 241-250.	1.6	36
103	Leaded Bronze: An Innovative Lead Substitute for Cathodic Electrosynthesis. ChemElectroChem, 2018, 5, 247-252.	1.7	35
104	Multimodal laser ablation/desorption imaging analysis of Zn and MMP-11 in breast tissues. Analytical and Bioanalytical Chemistry, 2018, 410, 913-922.	1.9	28
105	Synthesis, in Vitro Biological Evaluation, and Oxidative Transformation of New Flavonol Derivatives: The Possible Role of the Phenyl-N,N-Dimethylamino Group. Molecules, 2018, 23, 3161.	1.7	10
106	Biolabeling with cobaltocinium tags. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 781-791.	0.3	0
107	Emerging Clinical Applications of Heme Oxygenase. Current Pharmaceutical Design, 2018, 24, 2227-2228.	0.9	2
108	Gold nanoparticle distribution in advanced in vitro and ex vivo human placental barrier models. Journal of Nanobiotechnology, 2018, 16, 79.	4.2	48

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109	Role of Heme Oxygenases in Cardiovascular Syndromes and Co-morbidities. <i>Current Pharmaceutical Design</i> , 2018, 24, 2322-2325.	0.9	15
110	The Impact of Moderate Chronic Hypoxia and Hyperoxia on the Level of Apoptotic and Autophagic Proteins in Myocardial Tissue. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-12.	1.9	19
111	ALK3 undergoes ligand-independent homodimerization and BMP-induced heterodimerization with ALK2. <i>Free Radical Biology and Medicine</i> , 2018, 129, 127-137.	1.3	17
112	Complementary Molecular and Elemental Mass-Spectrometric Imaging of Human Brain Tumors Resected by Fluorescence-Guided Surgery. <i>Analytical Chemistry</i> , 2018, 90, 12253-12260.	3.2	13
113	One-year Retention of Gadolinium in the Brain: Comparison of Gadodiamide and Gadoterate Meglumine in a Rodent Model. <i>Radiology</i> , 2018, 288, 424-433.	3.6	107
114	Investigations on the binding of ethylmercury from thiomersal to proteins in influenza vaccines. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 50, 100-104.	1.5	11
115	Phosphonate coating of SiO ₂ nanoparticles abrogates inflammatory effects and local changes of the lipid composition in the rat lung: a complementary bioimaging study. <i>Particle and Fibre Toxicology</i> , 2018, 15, 31.	2.8	14
116	Impact of the Particle Diameter on Ion Cloud Formation from Gold Nanoparticles in ICPMS. <i>Analytical Chemistry</i> , 2018, 90, 10271-10278.	3.2	18
117	The Cardioprotective Effect of Metformin in Doxorubicin-Induced Cardiotoxicity: The Role of Autophagy. <i>Molecules</i> , 2018, 23, 1184.	1.7	118
118	Aged (Black) versus Raw Garlic against Ischemia/Reperfusion-Induced Cardiac Complications. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1017.	1.8	20
119	The Effects of Long-Term, Low- and High-Dose Beta-Carotene Treatment in Zucker Diabetic Fatty Rats: The Role of HO-1. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1132.	1.8	12
120	Interaction of the New Monofunctional Anticancer Agent Phenanthriplatin With Transporters for Organic Cations. <i>Frontiers in Chemistry</i> , 2018, 6, 180.	1.8	21
121	High spatial resolution LA-ICP-MS demonstrates massive liver copper depletion in Wilson disease rats upon Methanobactin treatment. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 49, 119-127.	1.5	27
122	Gadolinium-based contrast agents induce gadolinium deposits in cerebral vessel walls, while the neuropil is not affected: an autopsy study. <i>Acta Neuropathologica</i> , 2018, 136, 127-138.	3.9	45
123	Quantitative Bioimaging of Platinum via Online Isotope Dilution-Laser Ablation-Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 7033-7039.	3.2	23
124	Molecular imaging of myocardial infarction with Gadofluorine P-106: A combined magnetic resonance and mass spectrometry imaging approach. <i>Heliyon</i> , 2018, 4, e00606.	1.4	12
125	Organic cation transporter 3 mediates cisplatin and copper cross-resistance in hepatoma cells. <i>Oncotarget</i> , 2018, 9, 743-754.	0.8	16
126	Dual reductive/oxidative electrochemistry/liquid chromatography/mass spectrometry: Towards peptide and protein modification, separation and identification. <i>Journal of Chromatography A</i> , 2017, 1479, 153-160.	1.8	10

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127	Electrochemistry coupled to (LC-)MS for the simulation of oxidative biotransformation reactions of PAHs. <i>Chemosphere</i> , 2017, 176, 202-211.	4.2	8
128	Elemental bioimaging by means of LA-ICP-OES: investigation of the calcium, sodium and potassium distribution in tobacco plant stems and leaf petioles. <i>Metallomics</i> , 2017, 9, 676-684.	1.0	12
129	Preferential accumulation of gold nanorods into human skin hair follicles: Effect of nanoparticle surface chemistry. <i>Journal of Colloid and Interface Science</i> , 2017, 503, 95-102.	5.0	54
130	Impact of particle size and surface modification on gold nanoparticle penetration into human placental microtissues. <i>Nanomedicine</i> , 2017, 12, 1119-1133.	1.7	34
131	Mixed europium valence in $\text{Eu}_0.937\text{Ba}_8[\text{BN}_2]_6$ – Structure and spectroscopic behavior. <i>Solid State Sciences</i> , 2017, 70, 86-92.	1.5	0
132	Spatial investigation of the elemental distribution in Wilson's disease liver after D-penicillamine treatment by LA-ICP-MS. <i>Journal of Trace Elements in Medicine and Biology</i> , 2017, 44, 26-31.	1.5	20
133	Degradation of sulfamethoxazole using ozone and chlorine dioxide - Compound-specific stable isotope analysis, transformation product analysis and mechanistic aspects. <i>Water Research</i> , 2017, 122, 280-289.	5.3	62
134	Isobaric dilution analysis as a calibration tool for long lived radionuclides in ICP-MS. <i>Journal of Trace Elements in Medicine and Biology</i> , 2017, 40, 97-103.	1.5	11
135	Imaging metals in <i>Caenorhabditis elegans</i> . <i>Metallomics</i> , 2017, 9, 357-364.	1.0	12
136	Autophagy: an adaptive physiological countermeasure to cellular senescence and ischaemia/reperfusion-associated cardiac arrhythmias. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 1058-1072.	1.6	49
137	Investigation of the oxidative transformation of roxarsone by electrochemistry coupled to hydrophilic interaction liquid chromatography/mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 153-161.	1.6	19
138	Investigating the influence of standard staining procedures on the copper distribution and concentration in Wilson's disease liver samples by laser ablation-inductively coupled plasma-mass spectrometry. <i>Journal of Trace Elements in Medicine and Biology</i> , 2017, 44, 71-75.	1.5	13
139	Downregulation of hepatic multi-drug resistance protein 1 (MDR1) after copper exposure. <i>Metallomics</i> , 2017, 9, 1279-1287.	1.0	5
140	Frontispiece: Excess Electron Transfer through DNA Duplexes Comprising a Metal-Mediated Base Pair. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	0
141	Excess Electron Transfer through DNA Duplexes Comprising a Metal-Mediated Base Pair. <i>Chemistry - A European Journal</i> , 2017, 23, 10244-10248.	1.7	31
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