

Doris Kuehnelt

List of Publications by Year in descending order

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55
papers

2,456
citations

186265

28
h-index

197818

49
g-index

56
all docs

56
docs citations

56
times ranked

1865
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of arsenic species: A critical review of methods and applications, 2000–2003. <i>Analyst, The</i> , 2004, 129, 373-395.	3.5	421
2	Determination of Arsenic Compounds in Earthworms. <i>Environmental Science & Technology</i> , 1998, 32, 2238-2243.	10.0	110
3	Arsenic compounds in terrestrial organisms. IV. Green plants and lichens from an old arsenic smelter site in Austria. <i>Applied Organometallic Chemistry</i> , 2000, 14, 411-420.	3.5	105
4	Selenium-Enriched Sprouts. A Raw Material for Fortified Cereal-Based Diets. <i>Journal of Agricultural and Food Chemistry</i> , 2000, 48, 5362-5368.	5.2	99
5	Arsenobetaine and other arsenic compounds in the National Research Council of Canada Certified Reference Materials DORM 1 and DORM 2. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 183-187.	3.0	97
6	Arsenic speciation in freshwater organisms from the river Danube in Hungary. <i>Talanta</i> , 2006, 69, 856-865.	5.5	96
7	Arsenic compounds in a marine food chain. <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 359, 434-437.	1.5	83
8	Selenium metabolites in human urine after ingestion of selenite, L-selenomethionine, or DL-selenomethionine: a quantitative case study by HPLC/ICPMS. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 383, 235-246.	3.7	83
9	Arsenic Compounds in Terrestrial Organisms I: <i>Collybia maculata</i> , <i>Collybia butyracea</i> and <i>Amanita muscaria</i> from Arsenic Smelter Sites in Austria. <i>Applied Organometallic Chemistry</i> , 1997, 11, 289-296.	3.5	80
10	Thio arsenosugars identified as natural constituents of mussels by liquid chromatography-mass spectrometry. <i>Chemical Communications</i> , 2004, , 1824-1825.	4.1	73
11	Comparison of three methods for the extraction of arsenic compounds from the NRCC standard reference material DORM-2 and the brown alga <i>Hijiki fuziforme</i> . <i>Applied Organometallic Chemistry</i> , 2001, 15, 445-456.	3.5	66
12	Arsenic Metabolism in Children Differs From That in Adults. <i>Toxicological Sciences</i> , 2016, 152, 29-39.	3.1	63
13	Bacterial degradation of arsenobetaine via dimethylarsinoylacetate. <i>Archives of Microbiology</i> , 2003, 180, 142-150.	2.2	60
14	Differing cytotoxicity and bioavailability of selenite, methylselenocysteine, selenomethionine, selenosugar 1 and trimethylselenonium ion and their underlying metabolic transformations in human cells. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 2622-2632.	3.3	58
15	Urinary arsenic species in Devon and Cornwall residents, UK. A pilot study. <i>Analyst, The</i> , 1998, 123, 27-29.	3.5	55
16	Marked individual variability in the levels of trimethylselenonium ion in human urine determined by HPLC/ICPMS and HPLC/vapor generation/ICPMS. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 2207-2212.	3.7	54
17	Consequences of Vapor Enhancement on Selenium Speciation Analysis by HPLC/ICPMS. <i>Analytical Chemistry</i> , 2006, 78, 8569-8574.	6.5	47
18	Concurrent quantitative HPLC–mass spectrometry profiling of small selenium species in human serum and urine after ingestion of selenium supplements. <i>Journal of Trace Elements in Medicine and Biology</i> , 2015, 29, 83-90.	3.0	46

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19	Retention behavior of inorganic and organic selenium compounds on a silica-based strong-cation-exchange column with an inductively coupled plasma mass spectrometer as selenium-specific detector. <i>Journal of Chromatography A</i> , 1997, 789, 233-245.	3.7	45
20	Thio arsenosugars in freshwater mussels from the Danube in Hungary. <i>Journal of Environmental Monitoring</i> , 2005, 7, 688.	2.1	44
21	An HPLC/ICPMS study of the stability of selenosugars in human urine: implications for quantification, sample handling, and storage. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 684-690.	3.0	44
22	Arsenic Compounds in Terrestrial Organisms II: Arsenocholine in the Mushroom <i>Amanita muscaria</i> . <i>Applied Organometallic Chemistry</i> , 1997, 11, 459-470.	3.5	43
23	Arsenic Speciation in Farmed Hungarian Freshwater Fish. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 9238-9243.	5.2	43
24	Selenium species-dependent toxicity, bioavailability and metabolic transformations in <i>Caenorhabditis elegans</i> . <i>Metallomics</i> , 2018, 10, 818-827.	2.4	43
25	Selenium metabolism to the trimethylselenonium ion (TMSe) varies markedly because of polymorphisms in the indolethylamine N-methyltransferase gene. <i>American Journal of Clinical Nutrition</i> , 2015, 102, 1406-1415.	4.7	40
26	Arsenic compounds in terrestrial organisms. III: Arsenic compounds in <i>Formica</i> from an old arsenic smelter site. <i>Applied Organometallic Chemistry</i> , 1997, 11, 859-867.	3.5	36
27	Selenium metabolites in urine of cancer patients receiving L-selenomethionine at high doses. <i>Toxicology and Applied Pharmacology</i> , 2007, 220, 211-215.	2.8	35
28	Occurrence of organo-arsenicals in jellyfishes and their mucus. <i>Chemosphere</i> , 2001, 44, 743-749.	8.2	30
29	Can Humans Metabolize Arsenic Compounds to Arsenobetaine?. <i>Applied Organometallic Chemistry</i> , 1997, 11, 327-335.	3.5	29
30	HPLC/vapor generation/ICPMS of selenium metabolites relevant to human urine – selective determination of trimethylselenonium ion. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 1264-1270.	3.0	29
31	Nitrogen purity influences the occurrence of As ⁺ ions in high-performance liquid chromatography/electrospray ionization mass spectrometric analysis of four common arsenosugars. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 654-659.	1.5	24
32	Organoarsenic Compounds in the Terrestrial Environment. , 0 , 223-275.		21
33	Quantitative determination of small selenium species in human serum by HPLC/ICPMS following a protein-removal, pre-concentration procedure. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 2323-2327.	3.7	21
34	Human excretory products of selenium are natural constituents of marine fish muscle. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7713-7719.	3.7	21
35	Steroidal glycosides from <i>Caralluma umbellata</i> . <i>Phytochemistry Letters</i> , 2009, 2, 134-138.	1.2	20
36	Biosynthesis and isolation of selenoneine from genetically modified fission yeast. <i>Metallomics</i> , 2018, 10, 1532-1538.	2.4	20

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37	Selenoneine and ergothioneine in human blood cells determined simultaneously by HPLC/ICP-QQQ-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 127-134.	3.0	19
38	Investigating the intra-individual variability in the human metabolic profile of urinary selenium. <i>Journal of Trace Elements in Medicine and Biology</i> , 2016, 37, 31-36.	3.0	18
39	Occurrence of a few organo-arsenicals in jellyfish. <i>Applied Organometallic Chemistry</i> , 1999, 13, 95-99.	3.5	16
40	Biological availability of selenosugars in rats. <i>Chemico-Biological Interactions</i> , 2007, 168, 203-210.	4.0	14
41	Quantitative determination of the sulfur-containing antioxidant ergothioneine by HPLC/ICP-QQQ-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1571-1581.	3.0	13
42	Exploring the urinary selenometabolome following a multi-phase selenite administration regimen in humans. <i>Metallomics</i> , 2016, 8, 774-781.	2.4	12
43	Treatment of <i>Caenorhabditis elegans</i> with Small Selenium Species Enhances Antioxidant Defense Systems. <i>Molecular Nutrition and Food Research</i> , 2019, 63, 1801304.	3.3	11
44	Associations between Methylated Metabolites of Arsenic and Selenium in Urine of Pregnant Bangladeshi Women and Interactions between the Main Genes Involved. <i>Environmental Health Perspectives</i> , 2018, 126, 027001.	6.0	10
45	A miniaturized microtiter plate protocol for the determination of selenomethionine in selenized yeast via enzymatic hydrolysis of protein-bound selenium. <i>Analytical Methods</i> , 2011, 3, 738.	2.7	9
46	Selenoneine ameliorates peroxide-induced oxidative stress in <i>C. elegans</i> . <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 55, 78-81.	3.0	9
47	Side-€Directed Transfer and Presystemic Metabolism of Selenoneine in a Human Intestinal Barrier Model. <i>Molecular Nutrition and Food Research</i> , 2019, 63, 1900080.	3.3	8
48	Capabilities of selenoneine to cross the<i>in vitro</i> blood-€brain barrier model. <i>Metallomics</i> , 2021, 13, .	2.4	8
49	Thiolated Chitosan Conjugated Liposomes for Oral Delivery of Selenium Nanoparticles. <i>Pharmaceutics</i> , 2022, 14, 803.	4.5	7
50	Sample preparation for arsenic speciation. <i>Comprehensive Analytical Chemistry</i> , 2003, 41, 1027-1044.	1.3	5
51	HPLC/ICPMS with effluent diversion for robust and time-efficient determination of selenium metabolites in human urine. <i>Analytical Methods</i> , 2014, 6, 1603-1607.	2.7	4
52	Arsenic Compounds in Terrestrial Biota. , 1999, , 61-68.		3
53	A time-efficient flow injection/ICPMS method for the direct determination of total selenium in human urine. <i>Microchemical Journal</i> , 2017, 130, 310-315.	4.5	3
54	Can humans metabolize arsenic compounds to arsenobetaine?. <i>Applied Organometallic Chemistry</i> , 1998, 12, 873-876.	3.5	2

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55	Arsenic compounds in terrestrial organisms. IV. Green plants and lichens from an old arsenic smelter site in Austria. , 2000, 14, 411.		1