

J?rgen G Gailer

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76
papers

2,153
citations

26
h-index

44
g-index

78
ext. papers

2,339
ext. citations

4.8
avg, IF

5.01
L-index

#	Paper	IF	Citations
76	Structural basis of the antagonism between inorganic mercury and selenium in mammals. <i>Chemical Research in Toxicology</i> , 2000 , 13, 1135-42	4	140
75	Arsenic-selenium and mercury-selenium bonds in biology. <i>Coordination Chemistry Reviews</i> , 2007 , 251, 234-254	23.2	135
74	A Metabolic Link between Arsenite and Selenite: The Seleno-bis(S-glutathionyl) Arsinium Ion. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4637-4639	16.4	125
73	A set of highly water-soluble tetraethyleneglycol-substituted Zn(II) phthalocyanines: synthesis, photochemical and photophysical properties, interaction with plasma proteins and in vitro phototoxicity. <i>Dalton Transactions</i> , 2011 , 40, 4067-79	4.3	108
72	Arsenobetaine and other arsenic species in mushrooms. <i>Applied Organometallic Chemistry</i> , 1995 , 9, 305-313	3.1	97
71	Mercury binding to the chelation therapy agents DMSA and DMPS and the rational design of custom chelators for mercury. <i>Chemical Research in Toxicology</i> , 2004 , 17, 999-1006	4	94
70	Metabolism of arsenic compounds by the blue mussel <i>mytilus edulis</i> after accumulation from seawater spiked with arsenic compounds. <i>Applied Organometallic Chemistry</i> , 1995 , 9, 341-355	3.1	77
69	Biliary excretion of [(GS)(2)AsSe](-) after intravenous injection of rabbits with arsenite and selenate. <i>Chemical Research in Toxicology</i> , 2002 , 15, 1466-71	4	69
68	Comparative hydrolysis and plasma protein binding of cis-platin and carboplatin in human plasma in vitro. <i>Metallomics</i> , 2011 , 3, 49-55	4.5	62
67	Simultaneous Cu-, Fe-, and Zn-specific detection of metalloproteins contained in rabbit plasma by size-exclusion chromatography-inductively coupled plasma atomic emission spectroscopy. <i>Journal of Biological Inorganic Chemistry</i> , 2009 , 14, 61-74	3.7	56
66	The seleno bis(S-glutathionyl) arsinium ion is assembled in erythrocyte lysate. <i>Chemical Research in Toxicology</i> , 2006 , 19, 601-7	4	56
65	Tetrathiomolybdate causes formation of hepatic copper-molybdenum clusters in an animal model of Wilson's disease. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1704-5	16.4	55
64	Review: Reactive selenium metabolites as targets of toxic metals/metalloids in mammals: a molecular toxicological perspective. <i>Applied Organometallic Chemistry</i> , 2002 , 16, 701-707	3.1	49
63	The ion-chromatographic behavior of arsenite, arsenate, methylarsonic acid and dimethylarsinic acid on the hamilton PRP-X100 anion-exchange column. <i>Applied Organometallic Chemistry</i> , 1994 , 8, 129-140	3.1	47
62	Chronic toxicity of As(III) in mammals: the role of (GS)(2)AsSe(-). <i>Biochimie</i> , 2009 , 91, 1268-72	4.6	42
61	Analysis of the plasma metalloproteome by SEC-ICP-AES: bridging proteomics and metabolomics. <i>Expert Review of Proteomics</i> , 2009 , 6, 251-65	4.2	38
60	Liquid chromatography-inductively coupled plasma-based metallomic approaches to probe health-relevant interactions between xenobiotics and mammalian organisms. <i>Metallomics</i> , 2011 , 3, 566-575	4.5	37

59	Remarkable effect of mobile phase buffer on the SEC-ICP-AES derived Cu, Fe and Zn-metalloproteome pattern of rabbit blood plasma. <i>Metallomics</i> , 2010 , 2, 460-8	4.5	35
58	Reversed-phase high-performance liquid chromatographic separation of inorganic mercury and methylmercury driven by their different coordination chemistry towards thiols. <i>Journal of Chromatography A</i> , 2007 , 1156, 331-9	4.5	33
57	Optical sensor for on-line determination of solvent mixtures based on a fluorescent solvent polarity probe. <i>Sensors and Actuators B: Chemical</i> , 1991 , 3, 267-272	8.5	33
56	The effect of sodium thiosulfate on the metabolism of cis-platin in human plasma in vitro. <i>Metallomics</i> , 2012 , 4, 960-7	4.5	30
55	Probing the coordination behavior of Hg ²⁺ , CH ₃ Hg ⁺ , and Cd ²⁺ towards mixtures of two biological thiols by HPLC-ICP-AES. <i>Journal of Inorganic Biochemistry</i> , 2011 , 105, 375-81	4.2	29
54	Identification of [(GS) ₂ AsSe] in rabbit bile by size-exclusion chromatography and simultaneous multielement-specific detection by inductively coupled plasma atomic emission spectroscopy. <i>Applied Organometallic Chemistry</i> , 2002 , 16, 72-75	3.1	29
53	Selenium-mediated arsenic excretion in mammals: a synchrotron-based study of whole-body distribution and tissue-specific chemistry. <i>Metallomics</i> , 2017 , 9, 1585-1595	4.5	26
52	Removal of Fe ³⁺ and Zn ²⁺ from plasma metalloproteins by iron chelating therapeutics depicted with SEC-ICP-AES. <i>Dalton Transactions</i> , 2010 , 39, 7466-73	4.3	26
51	The separation of dimethylarsinic acid, methylarsonous acid, methylarsonic acid, arsenate and dimethylarsinous acid on the Hamilton PRP-X100 anion-exchange column. <i>Applied Organometallic Chemistry</i> , 1999 , 13, 837-843	3.1	26
50	Retention behavior of arsenobetaine, arsenocholine, trimethylarsine oxide and tetramethylarsonium iodide on a styrene-divinylbenzene column with benzenesulfonates as ion-pairing reagents. <i>Journal of Chromatography A</i> , 1996 , 730, 219-229	4.5	25
49	Probing bioinorganic chemistry processes in the bloodstream to gain new insights into the origin of human diseases. <i>Dalton Transactions</i> , 2010 , 329-36	4.3	24
48	A possible molecular link between the toxicological effects of arsenic, selenium and methylmercury: methylmercury(II) seleno bis(S-glutathionyl) arsenic(III). <i>Journal of Biological Inorganic Chemistry</i> , 2008 , 13, 461-70	3.7	24
47	Simultaneous multielement-specific detection of a novel glutathione-arsenic-selenium ion [(GS) ₂ AsSe] by ICP AES after micellar size-exclusion chromatography. <i>Applied Organometallic Chemistry</i> , 2000 , 14, 355-363	3.1	23
46	Organ damage by toxic metals is critically determined by the bloodstream. <i>Coordination Chemistry Reviews</i> , 2018 , 374, 376-386	23.2	22
45	Strong poison revisited. <i>Journal of Inorganic Biochemistry</i> , 2007 , 101, 1891-3	4.2	22
44	Synthesis, purification, and structural characterization of the dimethyldiselenoarsinate anion. <i>Inorganic Chemistry</i> , 2002 , 41, 5426-32	5.1	22
43	Fortification of blood plasma from cancer patients with human serum albumin decreases the concentration of cisplatin-derived toxic hydrolysis products in vitro. <i>Metallomics</i> , 2014 , 6, 2034-41	4.5	21
42	Human cytosolic iron regulatory protein 1 contains a linear iron-sulfur cluster. <i>Journal of the American Chemical Society</i> , 2001 , 123, 10121-2	16.4	21

41	Tuning the metabolism of the anticancer drug cisplatin with chemoprotective agents to improve its safety and efficacy. <i>Metallomics</i> , 2016 , 8, 1170-1176	4.5	21
40	Chemoprotection by D-methionine against cisplatin-induced side-effects: insight from in vitro studies using human plasma. <i>Metallomics</i> , 2014 , 6, 532-41	4.5	20
39	Probing the bioinorganic chemistry of toxic metals in the mammalian bloodstream to advance human health. <i>Journal of Inorganic Biochemistry</i> , 2012 , 108, 128-32	4.2	20
38	Hg- and Cd-induced modulation of lipid packing and monolayer fluidity in biomimetic erythrocyte model systems. <i>Chemistry and Physics of Lipids</i> , 2013 , 170-171, 46-54	3.7	19
37	Synthesis, X-ray absorption spectroscopy and purification of the seleno-bis (S-glutathionyl) arsinium anion from selenide, arsenite and glutathione. <i>Journal of Organometallic Chemistry</i> , 2002 , 650, 108-113	2.3	19
36	Hg ²⁺ and Cd ²⁺ interact differently with biomimetic erythrocyte membranes. <i>BioMetals</i> , 2009 , 22, 261-74	3.4	18
35	Use of elemental and molecular-mass spectrometry to assess the toxicological effects of inorganic mercury in the mouse <i>Mus musculus</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 5853-65	4.4	17
34	Probing the interaction of arsenobetaine with blood plasma constituents in vitro: an SEC-ICP-AES study. <i>Metallomics</i> , 2009 , 1, 403-8	4.5	16
33	Environmentally relevant concentrations of aminopolycarboxylate chelating agents mobilize Cd from humic acid. <i>Journal of Environmental Sciences</i> , 2017 , 57, 249-257	6.4	15
32	N-acetyl-L-cysteine modulates the metabolism of cis-platin in human plasma in vitro. <i>Metallomics</i> , 2013 , 5, 197-207	4.5	15
31	Mobilization of exogenous and endogenous selenium to bile after the intravenous administration of environmentally relevant doses of arsenite to rabbits. <i>Applied Organometallic Chemistry</i> , 2004 , 18, 670-675	3.1	15
30	Remarkable differences in the biochemical fate of Cd, Hg, CHHg and thimerosal in red blood cell lysate. <i>Metallomics</i> , 2017 , 9, 1060-1072	4.5	14
29	The cisplatin/serum albumin system: A reappraisal. <i>Inorganica Chimica Acta</i> , 2019 , 495, 118983	2.7	13
28	Methylated trivalent arsenic-glutathione complexes are more stable than their arsenite analog. <i>Bioinorganic Chemistry and Applications</i> , 2008 , 539082	4.2	13
27	Chemical basis for the detoxification of cisplatin-derived hydrolysis products by sodium thiosulfate. <i>Journal of Inorganic Biochemistry</i> , 2016 , 162, 96-101	4.2	12
26	Observation of the seleno bis-(S-glutathionyl) arsinium anion in rat bile. <i>Journal of Inorganic Biochemistry</i> , 2016 , 158, 24-29	4.2	11
25	Identification of a haptoglobin-hemoglobin complex in human blood plasma. <i>Journal of Inorganic Biochemistry</i> , 2019 , 201, 110802	4.2	11
24	Simultaneous observation of the metabolism of cisplatin and NAMI-A in human plasma in vitro by SEC-ICP-AES. <i>Journal of Biological Inorganic Chemistry</i> , 2014 , 19, 1049-53	3.7	11

23	Structural characterization of Cd ²⁺ complexes in solution with DMSA and DMPS. <i>Journal of Inorganic Biochemistry</i> , 2014 , 136, 99-106	4.2	11
22	Manduca sexta IRP1: molecular characterization and in vivo response to iron. <i>Insect Biochemistry and Molecular Biology</i> , 2001 , 32, 85-96	4.5	11
21	Physiologically relevant plasma d,l-homocysteine concentrations mobilize Cd from human serum albumin. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1027, 181-6	3.2	9
20	Modulation of the metabolism of cis-platin in blood plasma by glutathione. <i>Canadian Journal of Chemistry</i> , 2016 , 94, 360-366	0.9	8
19	Probing the interaction of bisintercalating (2,2',6,6'-terpyridine)platinum(II) complexes with glutathione and rabbit plasma. <i>Journal of Inorganic Biochemistry</i> , 2016 , 163, 95-102	4.2	8
18	Mobilization of Cd from human serum albumin by small molecular weight thiols. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014 , 958, 16-21	3.2	8
17	In vitro assessment of chelating agents with regard to their abstraction efficiency of Cd(2+) bound to plasma proteins. <i>Metallomics</i> , 2012 , 4, 995-1003	4.5	7
16	Insights into the Chemical Biology of Selenium. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2008 , 183, 924-930	1	6
15	Improving the safety of metal-based drugs by tuning their metabolism with chemoprotective agents. <i>Journal of Inorganic Biochemistry</i> , 2018 , 179, 154-157	4.2	6
14	Improved RP-HPLC separation of Hg ²⁺ and CH ₃ Hg ⁺ using a mixture of thiol-based mobile phase additives. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012 , 47, 149-54	2.3	5
13	Metal Species in Biology: Bottom-Up and Top-Down LC Approaches in Applied Toxicological Research. <i>ISRN Chromatography</i> , 2013 , 2013, 1-21		5
12	Simultaneous arsenic- and selenium-specific detection of the dimethyldiselenoarsinate anion by high-performance liquid chromatography-inductively coupled plasma atomic emission spectrometry. <i>Applied Organometallic Chemistry</i> , 2003 , 17, 570-574	3.1	5
11	Sample preparation of blood plasma enables baseline separation of iron metalloproteins by SEC-GFAAS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020 , 1147, 122147	3.2	4
10	Effects of Non-essential Metal Releases on the Environment and Human Health 2016 , 221-252		4
9	Advanced LC-analysis of human plasma for metallodrug metabolites. <i>Drug Discovery Today: Technologies</i> , 2015 , 16, 24-30	7.1	3
8	Toxic Metal Species and Endogenous Metalloproteins at the Blood-Organ Interface: Analytical and Bioinorganic Aspects. <i>Molecules</i> , 2021 , 26,	4.8	3
7	Linking molecular targets of Cd in the bloodstream to organ-based adverse health effects. <i>Journal of Inorganic Biochemistry</i> , 2021 , 216, 111279	4.2	3
6	Improved selectivity of ZnNa ₃ DTPA vs. Na ₅ DTPA to abstract Cd ²⁺ from plasma proteins in vitro. <i>Metallomics</i> , 2013 , 5, 615-8	4.5	2

- 5 SEC hyphenated to a multielement-specific detector unravels the degradation pathway of a bimetallic anticancer complex in human plasma. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2020**, 1145, 122093 3.2 2
- 4 Application of a Novel Metallomics Tool to Probe the Fate of Metal-Based Anticancer Drugs in Blood Plasma: Potential, Challenges and Prospects. *Current Topics in Medicinal Chemistry*, **2021**, 21, 48-58³ 2
- 3 Detection of equimolar EDTA and DTPA in spiked wastewater effluents. *International Journal of Environmental Analytical Chemistry*, **2019**, 99, 541-556 1.8 1
- 2 Quantification of human plasma metalloproteins in multiple sclerosis, ischemic stroke and healthy controls reveals an association of haptoglobin-hemoglobin complexes with age.. *PLoS ONE*, **2022**, 17, e0262160 3.7 1
- 1 Biological Chemistry of Toxic Metals and Metalloids, Such as Arsenic, Cadmium, and Mercury **2020**, 1-18 0