

Philip Gardiner

List of Publications by Year in descending order

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53
papers

2,390
citations

218662

26
h-index

206102

48
g-index

53
all docs

53
docs citations

53
times ranked

3132
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold nanoparticle-based colorimetric biosensors. <i>Nanoscale</i> , 2018, 10, 18-33.	5.6	454
2	Study of the Mechanisms of Cadmium Biosorption by Dealginated Seaweed Waste. <i>Environmental Science & Technology</i> , 2001, 35, 3025-3030.	10.0	170
3	Microbial Transformations of Selenium Species of Relevance to Bioremediation. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4848-4859.	3.1	161
4	Removal of exogenously bound elements from human hair by various washing procedures and determination by inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2002, 455, 23-34.	5.4	147
5	Remediation of Chromium(VI) by a Methane-Oxidizing Bacterium. <i>Environmental Science & Technology</i> , 2010, 44, 400-405.	10.0	129
6	Recent Developments in Selenium Metabolism and Chemical Speciation: A Review. <i>Journal of Trace Elements in Medicine and Biology</i> , 1999, 13, 193-214.	3.0	92
7	Effects of heavy metals on plant-associated rhizobacteria: Comparison of endophytic and non-endophytic strains of <i>Azospirillum brasilense</i> . <i>Journal of Trace Elements in Medicine and Biology</i> , 2005, 19, 91-95.	3.0	70
8	Determination of aluminium in blood plasma or serum by electrothermal atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1981, 128, 57-66.	5.4	66
9	Optimization of the Simultaneous Determination of Cr(III) and Cr(VI) by Ion Chromatography with Chemiluminescence Detection. <i>Analytical Chemistry</i> , 1999, 71, 4203-4207.	6.5	61
10	Spectroscopic Studies of the Biosorption of Gold(III) by Dealginated Seaweed Waste. <i>Environmental Science & Technology</i> , 2003, 37, 4163-4169.	10.0	58
11	The application of gel filtration and electrothermal atomic absorption spectrometry to the speciation of protein-bound zinc and copper in human blood serum. <i>Analytica Chimica Acta</i> , 1981, 124, 281-294.	5.4	49
12	Determination of vanadium species in sediment, mussel and fish muscle tissue samples by liquid chromatography-inductively coupled plasma-mass spectrometry. <i>Analytica Chimica Acta</i> , 2005, 538, 107-115.	5.4	47
13	Simultaneous determination of total nitrogen, phosphorus and sulphur by means of microwave digestion and ion chromatography. <i>Journal of Chromatography A</i> , 1999, 847, 285-290.	3.7	45
14	Developments in the study and applications of bacterial transformations of selenium species. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 1250-1264.	9.0	44
15	The speciation of inorganic and methylmercury in human hair by high-performance liquid chromatography coupled with inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 377-381.	3.0	43
16	Microbial transformations of selenite by methane-oxidizing bacteria. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6713-6724.	3.6	42
17	Recent developments in selenium research. <i>British Journal of Biomedical Science</i> , 2009, 66, 107-116.	1.3	36
18	Factors Influencing the Surface Functionalization of Citrate Stabilized Gold Nanoparticles with Cysteamine, 3-Mercaptopropionic Acid or L-Selenocystine for Sensor Applications. <i>Chemosensors</i> , 2020, 8, 80.	3.6	34

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19	Instrumental analysis of bacterial cells using vibrational and emission Mössbauer spectroscopic techniques. <i>Analytica Chimica Acta</i> , 2006, 573-574, 445-452.	5.4	32
20	Comparing poly-3-hydroxybutyrate accumulation in <i>Azospirillum brasilense</i> strains Sp7 and Sp245: The effects of copper(II). <i>Applied Soil Ecology</i> , 2012, 61, 213-216.	4.3	32
21	µLC-ICP-MS Determinations of Unexposed UK Urinary Arsenic Speciation Reference Values. <i>Journal of Analytical Toxicology</i> , 2014, 38, 24-30.	2.8	31
22	PLASMAPHERESIS IN THE TREATMENT OF DIALYSIS ENCEPHALOPATHY. <i>Lancet, The</i> , 1978, 312, 940-941.	13.7	30
23	Fourier transform infrared spectroscopic characterisation of heavy metal-induced metabolic changes in the plant-associated soil bacterium <i>Azospirillum brasilense</i> Sp7. <i>Journal of Molecular Structure</i> , 2002, 610, 127-131.	3.6	30
24	Experimental study of graded bandgap Cu(InGa)(SeS) ₂ thin films grown on glass/molybdenum substrates by selenization and sulphidation. <i>Solar Energy Materials and Solar Cells</i> , 2004, 82, 587-587.	6.2	28
25	The simultaneous detection of trivalent & hexavalent chromium in exhaled breath condensate: A feasibility study comparing workers and controls. <i>International Journal of Hygiene and Environmental Health</i> , 2017, 220, 415-423.	4.3	28
26	Direct Determination of Selenium in Human Blood Serum and Plasma by Electrothermal Atomic Absorption Spectrometry. <i>Journal of Trace Elements in Medicine and Biology</i> , 1995, 9, 74-81.	3.0	27
27	Chemical and structural characterization of Se ^{IV} biotransformations by <i>Stenotrophomonas bentonitica</i> into Se ⁰ nanostructures and volatile Se species. <i>Environmental Science: Nano</i> , 2020, 7, 2140-2155.	4.3	26
28	Optimisation of the analytical conditions for the determination of aluminium in human blood plasma or serum by graphite furnace atomic-absorption spectrometry. Part I. Examination of the various analytical conditions. <i>Analyst, The</i> , 1985, 110, 611-617.	3.5	25
29	Phosphonioalkylthiosulfate zwitterions—new masked thiol ligands for the formation of cationic functionalised gold nanoparticles. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 4345-4351.	2.8	25
30	Methyl Selenol as a Precursor in Selenite Reduction to Se/S Species by Methane-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	24
31	Fourier transform Raman spectroscopic characterisation of cells of the plant-associated soil bacterium <i>Azospirillum brasilense</i> Sp7. <i>Journal of Molecular Structure</i> , 2001, 563-564, 199-207.	3.6	23
32	The application of gel filtration, immunonephelometry and electrothermal atomic absorption spectrometry to the study of the distribution of copper-, iron- and zinc-bound constituents in human amniotic fluid. <i>Clinica Chimica Acta</i> , 1982, 120, 103-117.	1.1	22
33	Development of a method for the simultaneous detection of Cr(III) and Cr(VI) in exhaled breath condensate samples using µLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 924-933.	3.0	22
34	On-line sequential detection by inductively coupled plasma atomic emission spectrometry of trace elements after liquid chromatography of biological fluids. <i>Journal of Analytical Atomic Spectrometry</i> , 1987, 2, 375.	3.0	21
35	Study of the Stability of Functionalized Gold Nanoparticles for the Colorimetric Detection of Dipeptidyl Peptidase IV. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2589.	2.5	20
36	Aluminium speciation in soil solutions as studied by size exclusion chromatography. <i>Plant and Soil</i> , 1987, 103, 151-154.	3.7	19

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37	Water-soluble gold nanoparticles stabilized with cationic phosphonium thiolate ligands. RSC Advances, 2012, 2, 10345.	3.6	19
38	The application of dealginated seaweed as a cation exchanger for on-line preconcentration and chemical speciation of trace metals. Journal of Analytical Atomic Spectrometry, 2000, 15, 1009-1013.	3.0	18
39	PLASMAPHERESIS, ALUMINIUM, AND DIALYSIS DEMENTIA. Lancet, The, 1978, 312, 1255.	13.7	17
40	Optimization of gold nanoparticle-based real-time colorimetric assay of dipeptidyl peptidase IV activity. Talanta, 2017, 169, 13-19.	5.5	17
41	Accuracy of the direct determination of cadmium in urine by carbon-furnace atomic-absorption spectrometry. Talanta, 1979, 26, 841-847.	5.5	14
42	¹⁰⁹ Mo-Thioacetylalkylphosphonium salts: Precursors for the preparation of phosphonium-functionalised gold nanoparticles. Journal of Organometallic Chemistry, 2008, 693, 3504-3508.	1.8	13
43	Optimisation of the analytical conditions for the determination of aluminium in human blood plasma and serum by graphite furnace atomic absorption spectrometry. Part 2. Assessment of the analytical method. Journal of Analytical Atomic Spectrometry, 1987, 2, 401.	3.0	12
44	The synthesis and characterisation of masked phosphonioalkyl selenoates: Potential ligands for the production of functionalised gold nanoparticles. Journal of Organometallic Chemistry, 2007, 692, 5065-5070.	1.8	11
45	Impact of ingredients on the elemental content of baby foods. Food Chemistry, 2017, 231, 309-315.	8.2	11
46	Considerations in the preparation of biological and environmental reference materials for use in the study of the chemical speciation of trace elements. Fresenius' Journal of Analytical Chemistry, 1993, 345, 287-290.	1.5	10
47	Use of direct current argon plasma as a detector in gel filtration chromatography of biological fluids. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1983, 38, 427-435.	2.9	8
48	The Investigation of Unexpected Arsenic Compounds Observed in Routine Biological Monitoring Urinary Speciation Analysis. Toxics, 2017, 5, 12.	3.7	8
49	The use of reference materials as standards in the simultaneous multielement analysis of biological materials using inductively coupled plasma spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1983, 38, 221-228.	2.9	7
50	The Distribution of Zinc in Human Erythrocytes. Clinical Chemistry and Laboratory Medicine, 1984, 22, 159-63.	2.3	5
51	Detoxification, Active Uptake, and Intracellular Accumulation of Chromium Species by a Methane-Oxidizing Bacterium. Applied and Environmental Microbiology, 2021, 87, .	3.1	5
52	A comparative study of the interaction of Myocrisin with albumin and \hat{I}^3 -globulin. Journal of Pharmaceutical and Biomedical Analysis, 1995, 13, 99-102.	2.8	2
53	Combination of neutron activation analysis and argon plasma emission spectroscopy in the elemental analysis of biological materials. Journal of Radioanalytical Chemistry, 1982, 69, 159-170.	0.5	0