

Michael H Ramsey

List of Publications by Year in descending order

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113
papers

3,959
citations

126708

33
h-index

133063

59
g-index

119
all docs

119
docs citations

119
times ranked

3069
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy metal distribution in sediment profiles of the Pearl River estuary, South China. <i>Applied Geochemistry</i> , 2000, 15, 567-581.	1.4	320
2	Sequential extraction of soils for multielement analysis by ICP-AES. <i>Chemical Geology</i> , 1995, 124, 109-123.	1.4	297
3	Rapid and accurate analyses of silicon and phosphorus in plants using a portable X-ray fluorescence spectrometer. <i>New Phytologist</i> , 2012, 195, 699-706.	3.5	191
4	An objective assessment of analytical method precision: comparison of ICP-AES and XRF for the analysis of silicate rocks. <i>Chemical Geology</i> , 1995, 124, 1-19.	1.4	133
5	Estimation of measurement uncertainty from field sampling: implications for the classification of contaminated land. <i>Science of the Total Environment</i> , 1997, 198, 243-257.	3.9	121
6	Total and exchangeable concentrations of heavy metals in soils near Bytom, an area of Pb/Zn mining and smelting in Upper Silesia, Poland. <i>Applied Geochemistry</i> , 1999, 14, 187-196.	1.4	121
7	Sampling as a source of measurement uncertainty: techniques for quantification and comparison with analytical sources. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 97-104.	1.6	120
8	Objective evaluation of precision requirements for geochemical analysis using robust analysis of variance. <i>Journal of Geochemical Exploration</i> , 1992, 44, 23-36.	1.5	117
9	Quality concepts and practices applied to sampling—an exploratory study. <i>Analyst, The</i> , 1995, 120, 261-270.	1.7	95
10	Matrix effects due to calcium in inductively coupled plasma atomic-emission spectrometry: their nature, source and remedy. <i>Analyst, The</i> , 1985, 110, 1413.	1.7	94
11	Heavy metal contamination of soils around a PbZn smelter in Bukowno, Poland. <i>Applied Geochemistry</i> , 1996, 11, 11-16.	1.4	93
12	Mineralogy and weathering processes in historical smelting slags and their effect on the mobilisation of lead. <i>Journal of Geochemical Exploration</i> , 1997, 58, 249-257.	1.5	93
13	The composition of hypersaline, iron-rich granitic fluids based on laser-ICP and Synchrotron-XRF microprobe analysis of individual fluid inclusions in topaz, Mole granite, eastern Australia. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 67-79.	1.6	89
14	Evaluation of Portable X-ray Fluorescence Instrumentation for in situ Measurements of Lead on Contaminated Land. <i>Analyst, The</i> , 1997, 122, 743-749.	1.7	86
15	Chemical partitioning of the new National Institute of Standards and Technology standard reference materials (SRM 2709 and 2711) by sequential extraction using inductively coupled plasma atomic emission spectrometry. <i>Analyst, The</i> , 1995, 120, 1415-1419.	1.7	70
16	Analytical viewpoint. Realistic assessment of analytical data quality from inductively coupled plasma atomic emission spectrometry. <i>Analytical Proceedings</i> , 1987, 24, 260.	0.4	67
17	A predictive model of plasma matrix effects in inductively coupled plasma atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1986, 1, 185.	1.6	57
18	Correlated variance in simultaneous inductively coupled plasma atomic-emission spectrometry: its causes and correction by a parameter-related internal standard method. <i>Analyst, The</i> , 1985, 110, 519.	1.7	56

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19	Effect of cadmium, zinc and substrate heterogeneity on yield, shoot metal concentration and metal uptake by <i>Brassica juncea</i> : implications for human health risk assessment and phytoremediation. <i>New Phytologist</i> , 2004, 163, 313-324.	3.5	54
20	High-accuracy analysis by inductively coupled plasma atomic emission spectrometry using the parameter-related internal standard method. <i>Journal of Analytical Atomic Spectrometry</i> , 1987, 2, 497.	1.6	51
21	Measurement uncertainty from physical sample preparation: estimation including systematic error. <i>Analyst, The</i> , 2003, 128, 1391.	1.7	50
22	Heterogeneity of cadmium concentration in soil as a source of uncertainty in plant uptake and its implications for human health risk assessment. <i>Science of the Total Environment</i> , 2004, 326, 49-53.	3.9	49
23	Measurement Uncertainty Arising From Sampling: Implications for the Objectives of Geoanalysis. <i>Analyst, The</i> , 1997, 122, 1255-1260.	1.7	48
24	Estimation of sampling bias between different sampling protocols on contaminated land. <i>Analyst, The</i> , 1995, 120, 1353.	1.7	47
25	Biochemical and biophysical investigations of the ferrocene-iron-loaded rat. An animal model of primary haemochromatosis. <i>FEBS Journal</i> , 1991, 202, 405-410.	0.2	46
26	Optimised uncertainty at minimum overall cost to achieve fitness-for-purpose in food analysis. <i>Analyst, The</i> , 2001, 126, 1777-1783.	1.7	46
27	Methodology for profiling anti-androgen mixtures in river water using multiple passive samplers and bioassay-directed analyses. <i>Water Research</i> , 2014, 57, 258-269.	5.3	46
28	Uncertainty from sampling, in the context of fitness for purpose. <i>Accreditation and Quality Assurance</i> , 2007, 12, 503-513.	0.4	45
29	The duplicate method of uncertainty estimation: are eight targets enough?. <i>Analyst, The</i> , 2007, 132, 1147.	1.7	44
30	Proficiency testing in sampling: pilot study on contaminated land. <i>Analyst, The</i> , 1995, 120, 2799.	1.7	43
31	On the collaborative trial in sampling. <i>Analyst, The</i> , 1995, 120, 2309.	1.7	39
32	Optimized contaminated land investigation at minimum overall cost to achieve fitness-for-purpose. <i>Journal of Environmental Monitoring</i> , 2002, 4, 809-814.	2.1	37
33	Chemical speciation and bioaccessibility of lead in surface soil and house dust, Lavrion urban area, Attiki, Hellas. <i>Environmental Geochemistry and Health</i> , 2010, 32, 529-552.	1.8	34
34	Can in situ geochemical measurements be more fit-for-purpose than those made ex situ?. <i>Applied Geochemistry</i> , 2012, 27, 969-976.	1.4	33
35	Portable X-ray fluorescence in the characterisation of arsenic contamination associated with industrial buildings at a heritage arsenic works site near Redruth, Cornwall, UK. <i>Journal of Environmental Monitoring</i> , 2002, 4, 1017-1024.	2.1	32
36	Sampling and analytical quality Control (SAX) for improved error estimation in the measurement of Pb in the environment using robust analysis of variance. <i>Applied Geochemistry</i> , 1993, 8, 149-153.	1.4	30

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37	Laser ablation-ICP-AES for the determination of metals in fluid inclusions: An application to the study of magmatic ore fluids. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1133-1146.	1.6	30
38	Spatially Resolved Hazard and Exposure Assessments: An Example of Lead in Soil at Lavrion, Greece. <i>Environmental Research</i> , 2000, 82, 33-45.	3.7	30
39	Balancing Measurement Uncertainty against Financial Benefits: A Comparison of In Situ and Ex Situ Analysis of Contaminated Land. <i>Environmental Science & Technology</i> , 2004, 38, 6824-6831.	4.6	30
40	Optimised uncertainty in food analysis: application and comparison between four contrasting "analyte" "commodity" combinations. <i>Analyst, The</i> , 2002, 127, 1252-1260.	1.7	27
41	Correction of matrix effects in inductively coupled plasma atomic emission spectrometry by interactive power adjustment. <i>Journal of Analytical Atomic Spectrometry</i> , 1987, 2, 185.	1.6	26
42	Communication. Improved precision in inductively coupled plasma atomic-emission spectrometry by a parameter-related internal standard method. <i>Analyst, The</i> , 1984, 109, 1625.	1.7	25
43	Buffering from secondary minerals as a migration limiting factor in lead polluted soils at historical smelting sites. <i>Applied Geochemistry</i> , 2001, 16, 1193-1199.	1.4	25
44	Spatial contaminant heterogeneity: quantification with scale of measurement at contrasting sites. <i>Journal of Environmental Monitoring</i> , 2005, 7, 1364.	2.1	25
45	Water analysis by inductively coupled plasma atomic-emission spectrometry after a rapid pre-concentration. <i>Analyst, The</i> , 1982, 107, 1330.	1.7	24
46	Empirical versus modelling approaches to the estimation of measurement uncertainty caused by primary sampling. <i>Analyst, The</i> , 2007, 132, 1231.	1.7	24
47	Uncertainty in the assessment of hazard, exposure and risk. <i>Environmental Geochemistry and Health</i> , 2009, 31, 205-217.	1.8	24
48	Extrapolation to infinite dilution: a method for overcoming matrix effects. <i>Journal of Analytical Atomic Spectrometry</i> , 1990, 5, 701.	1.6	23
49	Synthetic reference sampling target for the estimation of measurement uncertainty. <i>Analyst, The</i> , 1999, 124, 1701-1706.	1.7	23
50	Modelling measurement uncertainty as a function of concentration: an example from a contaminated land investigation. <i>Analyst, The</i> , 2001, 126, 1784-1791.	1.7	23
51	Modifying uncertainty from sampling to achieve fitness for purpose: a case study on nitrate in lettuce. <i>Accreditation and Quality Assurance</i> , 2007, 12, 67-74.	0.4	23
52	Effect of alkaline pH and associated Zn on the concentration and total uptake of Cd by lettuce: comparison with predictions from the CLEA model. <i>Science of the Total Environment</i> , 2005, 347, 53-63.	3.9	22
53	Cost effective, robust estimation of measurement uncertainty from sampling using unbalanced ANOVA. <i>Accreditation and Quality Assurance</i> , 2012, 17, 7-14.	0.4	22
54	Communication. Interactive matrix matching: a new method of correcting interference effects in inductively coupled plasma spectrometry. <i>Analyst, The</i> , 1982, 107, 1286.	1.7	21

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55	Determination of the extent of anthropogenic Pb migration through fractured sandstone using Pb isotope tracing. <i>Applied Geochemistry</i> , 1997, 12, 75-81.	1.4	21
56	Chemical and structural characterisation of iron cores of haemosiderins isolated from different sources. <i>FEBS Journal</i> , 1992, 209, 847-850.	0.2	20
57	Improved evaluation of measurement uncertainty from sampling by inclusion of between-sampler bias using sampling proficiency testing. <i>Analyst, The</i> , 2011, 136, 1313.	1.7	20
58	Appropriate rather than representative sampling, based on acceptable levels of uncertainty. <i>Accreditation and Quality Assurance</i> , 2002, 7, 274-280.	0.4	19
59	When is sampling part of the measurement process?. <i>Accreditation and Quality Assurance</i> , 2004, 9, 727-728.	0.4	19
60	Effect of soil pH on A1 availability in soils and its uptake by the soybean plant (<i>Glycine max</i>). <i>Journal of Geochemical Exploration</i> , 1995, 55, 223-230.	1.5	18
61	Uncertainty factor: an alternative way to express measurement uncertainty in chemical measurement. <i>Accreditation and Quality Assurance</i> , 2015, 20, 153-155.	0.4	18
62	Collaborative trial in sampling for the spatial delineation of contamination and the estimation of uncertainty. <i>Analyst, The</i> , 2000, 125, 139-145.	1.7	17
63	Single fluid inclusion analysis by laser ablation inductively coupled plasma atomic emission spectrometry: quantification and validation. <i>Journal of Analytical Atomic Spectrometry</i> , 1992, 7, 587.	1.6	16
64	Inter-organisational sampling trials for the uncertainty estimation of landfill gas measurements. <i>Journal of Environmental Monitoring</i> , 2001, 3, 288-294.	2.1	16
65	Multi-analyte optimisation of uncertainty in infant food analysis. <i>Analyst, The</i> , 2003, 128, 379-388.	1.7	15
66	Evaluation of <i>In Situ</i> Heterogeneity of Elements in Solids: Implications for Analytical Geochemistry. <i>Geostandards and Geoanalytical Research</i> , 2013, 37, 379-391.	1.7	15
67	Sampling proficiency test for the estimation of uncertainty in the spatial delineation of contamination. <i>Analyst, The</i> , 2000, 125, 2026-2031.	1.7	14
68	Self-matrix effects as a cause of calibration curvature in inductively coupled plasma atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1987, 2, 33.	1.6	13
69	Judging the fitness of on-site measurements by their uncertainty, including the contribution from sampling. <i>Science of the Total Environment</i> , 2012, 419, 196-207.	3.9	13
70	Modified concentric glass nebulizer for reduction of memory effects in inductively coupled plasma spectrometry. <i>Analytical Chemistry</i> , 1983, 55, 1626-1629.	3.2	12
71	Source identification of PbZn contamination in the Allen Basin, Cornwall, S.W. England. <i>Applied Geochemistry</i> , 1996, 11, 61-68.	1.4	12
72	Effect of scale of Cd heterogeneity and timing of exposure on the Cd uptake and shoot biomass, of plants with a contrasting root morphology. <i>Science of the Total Environment</i> , 2006, 367, 958-967.	3.9	12

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73	Comparison between <i>in situ</i> and <i>ex situ</i> gamma measurements on land areas within a decommissioning nuclear site: a case study at Dounreay. <i>Journal of Radiological Protection</i> , 2014, 34, 495-508.	0.6	12
74	Confidence intervals for robust estimates of measurement uncertainty. <i>Accreditation and Quality Assurance</i> , 2020, 25, 107-119.	0.4	12
75	Quantifying Isotopic Heterogeneity of Candidate Reference Materials at the Picogram Sampling Scale. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 5-24.	1.7	11
76	Two-stage application of the optimised uncertainty method: a practical assessment. <i>Analyst, The</i> , 2005, 130, 1271.	1.7	10
77	Uncertainty from sampling: workshop to launch a Nordtest handbook on sampling uncertainty estimation and control. <i>Accreditation and Quality Assurance</i> , 2007, 12, 377-381.	0.4	10
78	Atomic Spectrometry Update – Environmental Analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 1990, 5, 1R-55R.	1.6	9
79	Atomic Spectrometry Update – Environmental Analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 1991, 6, 1R-40R.	1.6	9
80	Discrimination between aluminium held within vegetation and that contributed by soil contamination using a combination of Electron Probe Micro Analysis (EPMA) and Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES). <i>Environmental Geochemistry and Health</i> , 1991, 13, 114-118.	1.8	9
81	Improved detection limits for transient signal analysis of fluid inclusions by inductively coupled plasma atomic emission spectrometry using correlated background correction. <i>Analyst, The</i> , 1995, 120, 1421.	1.7	9
82	Microanalysis of primary fluid inclusions in halite: constraints for an evaporitic sedimentation modeling. Application to the Mulhouse Basin (France). <i>Organic Geochemistry</i> , 1993, 20, 1139-1151.	0.9	8
83	The potential of multivariate quality control as a diagnostic tool in geoanalysis. <i>Analyst, The</i> , 2000, 125, 2032-2037.	1.7	8
84	Estimating and Optimising Analytical and Sampling Uncertainty in Environmental Investigations: Application and Evaluation. <i>Geostandards and Geoanalytical Research</i> , 2007, 31, 237-249.	2.0	8
85	Quantifying Heterogeneity of Small Test Portion Masses of Geological Reference Materials by Portable XRF Spectrometry: Implications for Uncertainty of Reference Values. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 459-473.	1.7	8
86	Error Estimation in Environmental Sampling and Analysis. , 0, , 93-108.		7
87	Sampling the Environment: Twelve Key Questions That Need Answers. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 251-261.	2.0	7
88	Optimising uncertainty in physical sample preparation. <i>Analyst, The</i> , 2005, 130, 1507.	1.7	7
89	Combined uncertainty factor for sampling and analysis. <i>Accreditation and Quality Assurance</i> , 2017, 22, 187-189.	0.4	7
90	Influence of soil-extractable aluminium and pH on the uptake of aluminium from soil into the soybean plant (<i>Glycine max</i>). <i>Environmental Geochemistry and Health</i> , 1993, 15, 105-111.	1.8	5

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91	Uncertainty of measurement or of mean value for the reliable classification of contaminated land. <i>Science of the Total Environment</i> , 2010, 409, 423-429.	3.9	5
92	New Approach to Geochemical Measurement: Estimation of Measurement Uncertainty from Sampling, rather than an Assumption of Representative Sampling. <i>Geostandards and Geoanalytical Research</i> , 2010, 34, 293-304.	1.7	5
93	Appropriate Sampling for Optimised Measurement (<sc>ASOM</sc>), rather than the Theory of Sampling (<sc>TOS</sc>) Approach, to Ensure Suitable Measurement Quality: A Refutation of Esbensen and Wagner (2014). <i>Geostandards and Geoanalytical Research</i> , 2016, 40, 571-581.	1.7	5
94	Challenges for the estimation of uncertainty of measurements made in situ. <i>Accreditation and Quality Assurance</i> , 2021, 26, 183-192.	0.4	5
95	A cautionary tale of principal component analysis: an example from inductively-coupled plasma/atomic emission spectrometry. <i>Analytica Chimica Acta</i> , 1988, 206, 203-214.	2.6	4
96	Atomic Spectrometry Update—Minerals, Refractories, Chemicals and Metals. <i>Journal of Analytical Atomic Spectrometry</i> , 1988, 3, 203R-253R.	1.6	4
97	Strategies of multielement calibration for maximising the accuracy of geochemical analysis by inductively coupled plasma-atomic emission spectrometry. <i>Chemical Geology</i> , 1992, 95, 99-112.	1.4	4
98	Comparing uncertainties—Are they really different?. <i>Accreditation and Quality Assurance</i> , 2022, 27, 133-142.	0.4	4
99	Productivity enhancement in atomic spectroscopy. Appropriate precision: matching analytical precision specifications to the particular application. <i>Analytical Proceedings</i> , 1993, 30, 110.	0.4	3
100	Sampling and Analytical Quality Control of the Determination of Aluminium in Soybean Leaves. <i>Analyst</i> , 1997, 122, 421-424.	1.7	3
101	Multiple links towards integrating teams for understanding of disease and environment (MULTITUDE). <i>Environmental Geochemistry and Health</i> , 2009, 31, 161-163.	1.8	3
102	Reply to comments on EURACHEM/CITAC guide —Measurement uncertainty arising from sampling—. <i>Accreditation and Quality Assurance</i> , 2010, 15, 533-535.	0.4	3
103	How Terminology and Definitions in Analytical Geochemistry can Help or Hinder the Development of New Ideas. <i>Geostandards and Geoanalytical Research</i> , 2010, 34, 317-324.	1.7	3
104	An Exploration of the Interplay between the Measurement Uncertainty and the Number of Samples in Contaminated Land Investigations. <i>Geostandards and Geoanalytical Research</i> , 2011, 35, 353-367.	1.7	3
105	Evaluation of uncertainties in <i>in situ</i> and <i>ex situ</i> gamma measurements on land areas with low contamination levels. <i>Journal of Radiological Protection</i> , 2015, 35, 391-399.	0.6	3
106	Spatial Modelling of Concentration in Topsoil Using Random and Systematic Uncertainty Components: Comparison against Established Techniques. <i>Analytical Letters</i> , 2022, 55, 2199-2219.	1.0	3
107	Environmental and Agricultural Applications of Atomic Spectroscopy*. , 1999, , 494-501.		2
108	Optimising <i>in situ</i> gamma measurements to identify the presence of radioactive particles in land areas. <i>Journal of Environmental Radioactivity</i> , 2014, 138, 162-169.	0.9	2

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109	Is measurement uncertainty from sampling related to analyte concentration?. Analytical Methods, 2017, 9, 5989-5996.	1.3	2
110	Appropriate rather than representative sampling, based on acceptable levels of uncertainty. , 2002, , 163-169.		2
111	Response to comment on "Empirical versus modelling approaches to the estimation of measurement uncertainty caused by primary sampling"™. Analyst, The, 2009, 134, 1936.	1.7	1
112	Quality in Measurement and Testing. , 2011, , 39-141.		1
113	Improved reliability in the interpretation of geochemical measurements by the quantification of uncertainty from sampling. Diqiu Huaxue, 2006, 25, 209-210.	0.5	0