Michael H Ramsey

List of Publications by Year
in descending order

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113	3,959	126907	133252
papers	citations	33 h-index	59 g-index

119	119	119	3069
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Heavy metal distribution in sediment profiles of the Pearl River estuary, South China. Applied Geochemistry, 2000, 15, 567-581.	3.0	320
2	Sequential extraction of soils for multielement analysis by ICP-AES. Chemical Geology, 1995, 124, 109-123.	3.3	297
3	Rapid and accurate analyses of silicon and phosphorus in plants using a portable Xâ€ray fluorescence spectrometer. New Phytologist, 2012, 195, 699-706.	7.3	191
4	An objective assessment of analytical method precision: comparison of ICP-AES and XRF for the analysis of silicate rocks. Chemical Geology, 1995, 124, 1-19.	3.3	133
5	Estimation of measurement uncertainty from field sampling: implications for the classification of contaminated land. Science of the Total Environment, 1997, 198, 243-257.	8.0	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. Applied Geochemistry, 1999, 14, 187-196.	3.0	121
7	Sampling as a source of measurement uncertainty: techniques for quantification and comparison with analytical sources. Journal of Analytical Atomic Spectrometry, 1998, 13, 97-104.	3.0	120
8	Objective evaluation of precision requirements for geochemical analysis using robust analysis of variance. Journal of Geochemical Exploration, 1992, 44, 23-36.	3.2	117
9	Quality concepts and practices applied to samplingâ€”an exploratory study. Analyst, The, 1995, 120, 261-270.	3.5	95
10	Matrix effects due to calcium in inductively coupled plasma atomic-emission spectrometry: their nature, source and remedy. Analyst, The, 1985, 110, 1413.	3.5	94
11	Heavy metal contamination of soils around a PbZn smelter in Bukowno, Poland. Applied Geochemistry, 1996, 11, 11-16.	3.0	93
12	Mineralogy and weathering processes in historical smelting slags and their effect on the mobilisation of lead. Journal of Geochemical Exploration, 1997, 58, 249-257.	3.2	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. Geochimica Et Cosmochimica Acta, 1992, 56, 67-79.	3.9	89
14	Evaluation of Portable X-ray Fluorescence Instrumentation for in situ Measurements of Lead on Contaminated Land. Analyst, The, 1997, 122, 743-749.	3.5	86
15	Chemical partitioning of the new National Institute of Standards and Technology standard reference materials (SRM 2709â€“2711) by sequential extraction using inductively coupled plasma atomic emission spectrometry. Analyst, The, 1995, 120, 1415-1419.	3.5	70
16	Analytical viewpoint. Realistic assessment of analytical data quality from inductively coupled plasma atomic emission spectrometry. Analytical Proceedings, 1987, 24, 260.	0.4	67
17	A predictive model of plasma matrix effects in inductively coupled plasma atomic emission spectrometry. Journal of Analytical Atomic Spectrometry, 1986, 1, 185.	3.0	57
18	Correlated variance in simultaneous inductively coupled plasma atomic-emission spectrometry: its causes and correction by a parameter-related internal standard method. Analyst, The, 1985, 110, 519.	3.5	56

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19	Effect of cadmium, zinc and substrate heterogeneity on yield, shoot metal concentration and metal uptake by Brassica juncea : implications for human health risk assessment and phytoremediation. New Phytologist, 2004, 163, 313-324.	7.3	54
20	High-accuracy analysis by inductively coupled plasma atomic emission spectrometry using the parameter-related internal standard method. Journal of Analytical Atomic Spectrometry, 1987, 2, 497.	3.0	51
21	Measurement uncertainty from physical sample preparation: estimation including systematic error. Analyst, The, 2003, 128, 1391.	3.5	50
22	Heterogeneity of cadmium concentration in soil as a source of uncertainty in plant uptake and its implications for human health risk assessment. Science of the Total Environment, 2004, 326, 49-53.	8.0	49
23	Measurement Uncertainty Arising From Sampling: Implications for the Objectives of Geoanalysisâ€. Analyst, The, 1997, 122, 1255-1260.	3.5	48
24	Estimation of sampling bias between different sampling protocols on contaminated land. Analyst, The, 1995, 120, 1353.	3.5	47
25	Biochemical and biophysical investigations of the ferrocene-iron-loaded rat. An animal model of primary haemochromatosis. FEBS Journal, 1991, 202, 405-410.	0.2	46
26	Optimised uncertainty at minimum overall cost to achieve fitness-for-purpose in food analysis. Analyst, The, 2001, 126, 1777-1783.	3.5	46
27	Methodology for profiling anti-androgen mixtures in river water using multiple passive samplers and bioassay-directed analyses. Water Research, 2014, 57, 258-269.	11.3	46
28	Uncertainty from sampling, in the context of fitness for purpose. Accreditation and Quality Assurance, 2007, 12, 503-513.	0.8	45
29	The duplicate method of uncertainty estimation: are eight targets enough?. Analyst, The, 2007, 132, 1147.	3.5	44
30	Proficiency testing in sampling: pilot study on contaminated land. Analyst, The, 1995, 120, 2799.	3.5	43
31	On the collaborative trial in sampling. Analyst, The, 1995, 120, 2309.	3.5	39
32	Optimized contaminated land investigation at minimum overall cost to achieve fitness-for-purpose. Journal of Environmental Monitoring, 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. Environmental Geochemistry and Health, 2010, 32, 529-552.	3.4	34
34	Can in situ geochemical measurements be more fit-for-purpose than those made ex situ?. Applied Geochemistry, 2012, 27, 969-976.	3.0	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. Journal of Environmental Monitoring, 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. Applied Geochemistry, 1993, 8, 149-153.	3.0	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. Geochimica Et Cosmochimica Acta, 1994, 58, 1133-1146.	3.9	30
38	Spatially Resolved Hazard and Exposure Assessments: An Example of Lead in Soil at Lavrion, Greece. Environmental Research, 2000, 82, 33-45.	7.5	30
39	Balancing Measurement Uncertainty against Financial Benefits:Â Comparison of In Situ and Ex Situ Analysis of Contaminated Land. Environmental Science & Technology, 2004, 38, 6824-6831.	10.0	30
40	Optimised uncertainty in food analysis: application and comparison between four contrasting â€˜analyteâ€“commodityâ€™ combinations. Analyst, The, 2002, 127, 1252-1260.	3.5	27
41	Correction of matrix effects in inductively coupled plasma atomic emission spectrometry by interactive power adjustment. Journal of Analytical Atomic Spectrometry, 1987, 2, 185.	3.0	26
42	Communication. Improved precision in inductively coupled plasma atomic-emission spectrometry by a parameter-related internal standard method. Analyst, The, 1984, 109, 1625.	3.5	25
43	Buffering from secondary minerals as a migration limiting factor in lead polluted soils at historical smelting sites. Applied Geochemistry, 2001, 16, 1193-1199.	3.0	25
44	Spatial contaminant heterogeneity: quantification with scale of measurement at contrasting sites. Journal of Environmental Monitoring, 2005, 7, 1364.	2.1	25
45	Water analysis by inductively coupled plasma atomic-emission spectrometry after a rapid pre-concentration. Analyst, The, 1982, 107, 1330.	3.5	24
46	Empirical versus modelling approaches to the estimation of measurement uncertainty caused by primary sampling. Analyst, The, 2007, 132, 1231.	3.5	24
47	Uncertainty in the assessment of hazard, exposure and risk. Environmental Geochemistry and Health, 2009, 31, 205-217.	3.4	24
48	Extrapolation to infinite dilution: a method for overcoming matrix effects. Journal of Analytical Atomic Spectrometry, 1990, 5, 701.	3.0	23
49	Synthetic reference sampling target for the estimation of measurement uncertainty. Analyst, The, 1999, 124, 1701-1706.	3.5	23
50	Modelling measurement uncertainty as a function of concentration: an example from a contaminated land investigation. Analyst, The, 2001, 126, 1784-1791.	3.5	23
51	Modifying uncertainty from sampling to achieve fitness for purpose: a case study on nitrate in lettuce. Accreditation and Quality Assurance, 2007, 12, 67-74.	0.8	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. Science of the Total Environment, 2005, 347, 53-63.	8.0	22
53	Cost effective, robust estimation of measurement uncertainty from sampling using unbalanced ANOVA. Accreditation and Quality Assurance, 2012, 17, 7-14.	0.8	22
54	Communication. Interactive matrix matching: a new method of correcting interference effects in inductively coupled plasma spectrometry. Analyst, The, 1982, 107, 1286.	3.5	21

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55	Determination of the extent of anthropogenic Pb migration through fractured sandstone using Pb isotope tracing. Applied Geochemistry, 1997, 12, 75-81.	3.0	21
56	Chemical and structural characterisation of iron cores of haemosiderins isolated from different sources. FEBS Journal, 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. Analyst, The, 2011, 136, 1313.	3.5	20
58	Appropriate rather than representative sampling, based on acceptable levels of uncertainty. Accreditation and Quality Assurance, 2002, 7, 274-280.	0.8	19
59	When is sampling part of the measurement process?. Accreditation and Quality Assurance, 2004, 9, 727-728.	0.8	19
60	Effect of soil pH on A1 availability in soils and its uptake by the soybean plant (Glycine max). Journal of Geochemical Exploration, 1995, 55, 223-230.	3.2	18
61	Uncertainty factor: an alternative way to express measurement uncertainty in chemical measurement. Accreditation and Quality Assurance, 2015, 20, 153-155.	0.8	18
62	Collaborative trial in sampling for the spatial delineation of contamination and the estimation of uncertainty. Analyst, The, 2000, 125, 139-145.	3.5	17
63	Single fluid inclusion analysis by laser ablation inductively coupled plasma atomic emission spectrometry: quantification and validation. Journal of Analytical Atomic Spectrometry, 1992, 7, 587.	3.0	16
64	InterÂorganisational sampling trials for the uncertainty estimation of landfill gas measurements. Journal of Environmental Monitoring, 2001, 3, 288-294.	2.1	16
65	Multi-analyte optimisation of uncertainty in infant food analysis. Analyst, The, 2003, 128, 379-388.	3.5	15
66	Evaluation of In Situ Heterogeneity of Elements in Solids: Implications for Analytical Geochemistry. Geostandards and Geoanalytical Research, 2013, 37, 379-391.	3.1	15
67	Sampling proficiency test for the estimation of uncertainty in the spatial delineation of contamination. Analyst, The, 2000, 125, 2026-2031.	3.5	14
68	Self-matrix effects as a cause of calibration curvature in inductively coupled plasma atomic emission spectrometry. Journal of Analytical Atomic Spectrometry, 1987, 2, 33.	3.0	13
69	Judging the fitness of on-site measurements by their uncertainty, including the contribution from sampling. Science of the Total Environment, 2012, 419, 196-207.	8.0	13
70	Modified concentric glass nebulizer for reduction of memory effects in inductively coupled plasma spectrometry. Analytical Chemistry, 1983, 55, 1626-1629.	6.5	12
71	Source identification of PbZn contamination in the Allen Basin, Cornwall, S.W. England. Applied Geochemistry, 1996, 11, 61-68.	3.0	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. Science of the Total Environment, 2006, 367, 958-967.	8.0	12

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73	Comparison betweenin situandex situgamma measurements on land areas within a decommissioning nuclear site: a case study at Dounreay. Journal of Radiological Protection, 2014, 34, 495-508.	1.1	12
74	Confidence intervals for robust estimates of measurement uncertainty. Accreditation and Quality Assurance, 2020, 25, 107-119.	0.8	12
75	Quantifying Isotopic Heterogeneity of Candidate Reference Materials at the Picogram Sampling Scale. Geostandards and Geoanalytical Research, 2018, 42, 5-24.	3.1	11
76	Two-stage application of the optimised uncertainty method: a practical assessment. Analyst, The, 2005, 130, 1271.	3.5	10
77	Uncertainty from sampling: workshop to launch a Nordtest handbook on sampling uncertainty estimation and control. Accreditation and Quality Assurance, 2007, 12, 377-381.	0.8	10
78	Atomic Spectrometry Updateâ€"Environmental Analysis. Journal of Analytical Atomic Spectrometry, 1990, 5, 1R-55R.	3.0	9
79	Atomic Spectrometry Updateâ€"Environmental Analysis. Journal of Analytical Atomic Spectrometry, 1991, 6, 1R-40R.	3.0	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). Environmental Geochemistry and Health, 1991, 13, 114-118.	3.4	9
81	Improved detection limits for transient signal analysis of fluid inclusions by inductively coupled plasma atomic emission spectrometry using correlated background correction. Analyst, The, 1995, 120, 1421.	3.5	9
82	Microanalysis of primary fluid inclusions in halite: constraints for an evaporitic sedimentation modeling. Application to the Mulhouse Basin (France). Organic Geochemistry, 1993, 20, 1139-1151.	1.8	8
83	The potential of multivariate quality control as a diagnostic tool in geoanalysis. Analyst, The, 2000, 125, 2032-2037.	3.5	8
84	Estimating and Optimising Analytical and Sampling Uncertainty in Environmental Investigations: Application and Evaluation. Geostandards and Geoanalytical Research, 2007, 31, 237-249.	1.9	8
85	Quantifying Heterogeneity of Small Test Portion Masses of Geological Reference Materials by Portable XRF Spectrometry: Implications for Uncertainty of Reference Values. Geostandards and Geoanalytical Research, 2017, 41, 459-473.	3.1	8
86	Error Estimation in Environmental Sampling and Analysis. , 0, , 93-108.		7
87	Sampling the Environment: Twelve Key Questions That Need Answers. Geostandards and Geoanalytical Research, 2004, 28, 251-261.	1.9	7
88	Optimising uncertainty in physical sample preparation. Analyst, The, 2005, 130, 1507.	3.5	7
89	Combined uncertainty factor for sampling and analysis. Accreditation and Quality Assurance, 2017, 22, 187-189.	0.8	7
90	Influence of soil-extractable aluminium and pH on the uptake of aluminium from soil into the soybean plant (Glycine max). Environmental Geochemistry and Health, 1993, 15, 105-111.	3.4	5

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91	Uncertainty of measurement or of mean value for the reliable classification of contaminated land. Science of the Total Environment, 2010, 409, 423-429.	8.0	5
92	New Approach to Geochemical Measurement: Estimation of Measurement Uncertainty from Sampling, rather than an Assumption of Representative Sampling. Geostandards and Geoanalytical Research, 2010, 34, 293-304.	3.1	5
93	Appropriate Sampling for Optimised Measurement (<scp>ASOM</scp>), rather than the Theory of Sampling (<scp>TOS</scp>) Approach, to Ensure Suitable Measurement Quality: A Refutation of Esbensen and Wagner (2014). Geostandards and Geoanalytical Research, 2016, 40, 571-581.	3.1	5
94	Challenges for the estimation of uncertainty of measurements made in situ. Accreditation and Quality Assurance, 2021, 26, 183-192.	0.8	5
95	A cautionary tale of principal component analysis: an example from inductively-coupled plasma/atomic emission spectrometry. Analytica Chimica Acta, 1988, 206, 203-214.	5.4	4
96	Atomic Spectrometry Updateâ€"Minerals, Refractories, Chemicals and Metals. Journal of Analytical Atomic Spectrometry, 1988, 3, 203R-253R.	3.0	4
97	Strategies of multielement calibration for maximising the accuracy of geochemical analysis by inductively coupled plasma-atomic emission spectrometry. Chemical Geology, 1992, 95, 99-112.	3.3	4
98	Comparing uncertaintiesâ€"Are they really different?. Accreditation and Quality Assurance, 2022, 27, 133-142.	0.8	4
99	Productivity enhancement in atomic spectroscopy. Appropriate precision: matching analytical precision specifications to the particular application. Analytical Proceedings, 1993, 30, 110.	0.4	3
100	Sampling and Analytical Quality Control of the Determination of Aluminium in Soybean Leaves. Analyst, The, 1997, 122, 421-424.	3.5	3
101	Multiple links towards integrating teams for understanding of disease and environment (MULTITUDE). Environmental Geochemistry and Health, 2009, 31, 161-163.	3.4	3
102	Reply to comments on EURACHEM/CITAC guide â€œMeasurement uncertainty arising from samplingâ€• Accreditation and Quality Assurance, 2010, 15, 533-535.	0.8	3
103	How Terminology and Definitions in Analytical Geochemistry can Help or Hinder the Development of New Ideas. Geostandards and Geoanalytical Research, 2010, 34, 317-324.	3.1	3
104	An Exploration of the Interplay between the Measurement Uncertainty and the Number of Samples in Contaminated Land Investigations. Geostandards and Geoanalytical Research, 2011, 35, 353-367.	3.1	3
105	Evaluation of uncertainties inin situandex situgamma measurements on land areas with low contamination levels. Journal of Radiological Protection, 2015, 35, 391-399.	1.1	3
106	Spatial Modelling of Concentration in Topsoil Using Random and Systematic Uncertainty Components: Comparison against Established Techniques. Analytical Letters, 2022, 55, 2199-2219.	1.8	3
107	Environmental and Agricultural Applications of Atomic Spectroscopy*. , 1999, , 494-501.		2
108	Optimising in situ gamma measurements to identify the presence of radioactive particles in land areas. Journal of Environmental Radioactivity, 2014, 138, 162-169.	1.7	2

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109	Is measurement uncertainty from sampling related to analyte concentration?. Analytical Methods, 2017, 9, 5989-5996.	2.7	2
110	Appropriate rather than representative sampling, based on acceptable levels of uncertainty. , 2002, , 163-169.		2
111	Response to comment on â€˜Empirical versus modelling approaches to the estimation of measurement uncertainty caused by primary samplingâ€™. Analyst, The, 2009, 134, 1936.	3.5	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