Stephen l R Ellison

List of Publications by Citations

87 papers	3,869 citations	21 h-index	62 g-index
95 ext. papers	4,276 ext. citations	2.9 avg, IF	5.38 L-index

#	Paper	IF	Citations
87	Harmonized guidelines for single-laboratory validation of methods of analysis (IUPAC Technical Report). *Pure and Applied Chemistry*, **2002**, 74, 835-855	2.1	1591
86	The International Harmonized Protocol for the proficiency testing of analytical chemistry laboratories (IUPAC Technical Report). *Pure and Applied Chemistry*, **2006**, 78, 145-196	2.1	482
85	Comparison of microfluidic digital PCR and conventional quantitative PCR for measuring copy number variation. *Nucleic Acids Research*, **2012**, 40, e82	20.1	283
84	Harmonized guidelines for the use of recovery information in analytical measurement. *Pure and Applied Chemistry*, **1999**, 71, 337-348	2.1	185
83	Standard additions: myth and reality. *Analyst, The*, **2008**, 133, 992-7	5	112
82	Routes to improving the reliability of low level DNA analysis using real-time PCR. *BMC Biotechnology*, **2006**, 6, 33	3.5	101
81	Measurement uncertainty: Approaches to the evaluation of uncertainties associated with recovery*Analyst, The*, **1999**, 124, 981-990	5	87
80	Characterising the performance of qualitative analytical methods: Statistics and terminology. *TrAC - Trends in Analytical Chemistry*, **2005**, 24, 468-476	14.6	75
79	A theoretical and crystallographic study of the geometries and conformations of fluoro-olefins as peptide analogues. *Tetrahedron*, **1986**, 42, 2101-2110	2.4	74
78	Using validation data for ISO measurement uncertainty estimationPart 1. Principles of an approach using cause and effect analysis. *Analyst, The*, **1998**, 123, 1387-1392	5	72
77	Treatment of uncorrected measurement bias in uncertainty estimation for chemical measurements. *Analytical and Bioanalytical Chemistry*, **2008**, 390, 201-13	4.4	60
76	Dark uncertainty. *Accreditation and Quality Assurance*, **2011**, 16, 483-487	0.7	59
75	A review of interference effects and their correction in chemical analysis with special reference to uncertainty. *Accreditation and Quality Assurance*, **2005**, 10, 82-97	0.7	47
74	PerspectiveQuantifying uncertainty in qualitative analysis. *Analyst, The*, **1998**, 123, 1155-1161	5	46
73	A decision theory approach to fitness for purpose in analytical measurement. *Analyst, The*, **2002**, 127, 818-24	5	42
72	The evaluation of measurement uncertainty from method validation studies. *Accreditation and Quality Assurance*, **2000**, 5, 47-53	0.7	41
71	Estimation of uncertainties in ICP-MS analysis: a practical methodology. *Analytica Chimica Acta*, **1999**, 394, 281-291	6.6	31

70	Uncertainty for reference materials certified by interlaboratory study: Recommendations of an international study group. *Accreditation and Quality Assurance*, **2001**, 6, 274-277	0.7	30
69	Reporting measurement uncertainty and coverage intervals near natural limits. *Analyst, The*, **2006**, 131, 710-7	5	27
68	Estimating measurement uncertainty using a cause and effect and reconciliation approachPart 2. Measurement uncertainty estimates compared with collaborative trial expectation*Analytical Communications*, **1998**, 35, 377-383		23
67	Implementation of proficiency testing schemes for a limited number of participants. *Accreditation and Quality Assurance*, **2007**, 12, 391-398	0.7	21
66	Implementing measurement uncertainty for analytical chemistry: theEurachem Guidefor measurement uncertainty. *Metrologia*, **2014**, 51, S199-S205	2.1	17
65	Fitness for purpose the integrating theme of the revised Harmonised Protocol for Proficiency Testing in Analytical Chemistry Laboratories. *Accreditation and Quality Assurance*, **2006**, 11, 373-378	0.7	17
64	Scoring in Genetically Modified Organism Proficiency Tests Based on Log-Transformed Results. *Journal of AOAC INTERNATIONAL*, **2006**, 89, 232-239	1.7	16
63	In defence of the correlation coefficient. *Accreditation and Quality Assurance*, **2006**, 11, 146-152	0.7	16
62	Causes of error in analytical chemistry: results of a web-based survey of proficiency testing participants. *Accreditation and Quality Assurance*, **2012**, 17, 453-464	0.7	15
61	Experimental studies of uncertainties associated with chromatographic techniques. *Journal of Chromatography A*, **2001**, 918, 267-76	4.5	15
60	Measurement of near zero concentration: recording and reporting results that fall close to or below the detection limit. *Analyst, The*, **2001**, 126, 256-9	5	15
59	Uncertainty factor: an alternative way to express measurement uncertainty in chemical measurement. *Accreditation and Quality Assurance*, **2015**, 20, 153-155	0.7	14
58	Including correlation effects in an improved spreadsheet calculation of combined standard uncertainties. *Accreditation and Quality Assurance*, **2005**, 10, 338-343	0.7	13
57	Evaluation of a novel approach for the measurement of RNA quality. *BMC Research Notes*, **2010**, 3, 89	2.3	11
56	Performance of uncertainty evaluation strategies in a food proficiency scheme. *Accreditation and Quality Assurance*, **2008**, 13, 231-238	0.7	11
55	An international comparability study on quantification of mRNA gene expression ratios: CCQM-P103.1. *Biomolecular Detection and Quantification*, **2016**, 8, 15-28	12	11
54	A candidate liquid chromatography mass spectrometry reference method for the quantification of the cardiac marker 1-32 B-type natriuretic peptide. *Clinical Chemistry and Laboratory Medicine*, **2017**, 55, 1397-1406	5.9	10
53	Monte Carlo simulation of expert judgments on human errors in chemical analysis--a case study of ICP-MS. *Talanta*, **2014**, 130, 462-9	6.2	10

52	House-of-security approach to measurement in analytical chemistry: quantification of human error using expert judgments. *Accreditation and Quality Assurance*, **2013**, 18, 459-467	0.7	10
51	Handling false negatives, false positives and reporting limits in analytical proficiency tests. *Analyst, The*, **1997**, 122, 495-7	5	10
50	Response surface modelling and kinetic studies for the experimental estimation of measurement uncertainty in derivatisation. *Analyst, The*, **2001**, 126, 199-210	5	10
49	Homogeneity studies and ISO Guide 35:2006. *Accreditation and Quality Assurance*, **2015**, 20, 519-528	0.7	9
48	Predicting chance infrared spectroscopic matching frequencies. *Analytica Chimica Acta*, **1998**, 370, 181-186	1.6	9
47	EURACHEM/CITAC Guide: Quantifying Uncertainty in Analytical Measurement, Ellison, S.L.R., Rosslein, M., and Williams, A., Eds., 2nd ed.; translated under the title Rukovodstvo EVRAKhIM/SITAK: Kolichestvennoe opisanie neopredelennosti v analiticheskikh izmereniyakh, Konopel'ko, L.A., Ed., St. Petersburg: Vserossiiskii Nauchno-issledovatel'skii Institut Metrologii im.	1.1	9
46	Evaluation of a solid phase extraction procedure for the determination of pesticide residues in foodstuffs. *Journal of the Science of Food and Agriculture*, **1999**, 79, 1190-1196	4.3	9
45	A standard additions method reduces inhibitor-induced bias in quantitative real-time PCR. *Analytical and Bioanalytical Chemistry*, **2011**, 401, 3221-7	4.4	8
44	Comparability and compatibility of proficiency testing results in schemes with a limited number of participants. *Accreditation and Quality Assurance*, **2007**, 12, 563-567	0.7	8
43	Diverse origins of conformational equilibrium isotope effects for hydrogen in 1,3-dioxans. *Tetrahedron Letters*, **1989**, 30, 4585-4588	2	8
42	An international comparability study on quantification of total methyl cytosine content. *Analytical Biochemistry*, **2009**, 384, 288-95	3.1	7
41	Method validation in analytical sciences: discussions on current practice and future challenges. *Accreditation and Quality Assurance*, **2017**, 22, 253-263	0.7	6
40	Principles for the assessment of homogeneity and stability in the new ISO Guide 35:2017. *Accreditation and Quality Assurance*, **2018**, 23, 47-51	0.7	5
39	Evaluation of Carbon Disulfide as an Alternative to Carbon Tetrachloride for the Determination of Hydrocarbon Oils in Water by Infra-Red Spectrophotometry. *International Journal of Environmental Analytical Chemistry*, **1998**, 72, 235-246	1.8	5
38	Re-examination of a conformational equilibrium isotope effect for hydrogen in 1,1,3,3-tetramethylcyclohexane - the importance of intrinsic isotope effects. *Tetrahedron Letters*, **1985**, 26, 2585-2588	2	5
37	Combined uncertainty factor for sampling and analysis. *Accreditation and Quality Assurance*, **2017**, 22, 187-189	0.7	4
36	A simple numerical method of estimating the contribution of reference value uncertainties to sample-specific uncertainties in multivariate regression. *Chemometrics and Intelligent Laboratory Systems*, **2006**, 83, 133-138	3.8	4
35	Final report of CCQM-K86.c. Relative quantification of genomic DNA fragments extracted from a biological tissue. *Metrologia*, **2020**, 57, 08004-08004	2.1	4

34	Performance of MM-estimators on multi-modal data shows potential for improvements in consensus value estimation. *Accreditation and Quality Assurance*, **2009**, 14, 411-419	0.7	3
33	Handling undetected and low-level components in purity determination. *Accreditation and Quality Assurance*, **2007**, 12, 323-328	0.7	3
32	Disseminating traceability in chemical measurement: Principles of a new EURACHEM/CITAC guide. *Accreditation and Quality Assurance*, **2003**, 8, 483-485	0.7	3
31	Poultry marketing controls Inter-laboratory validation of a method to detect previously frozen chicken breasts by determination of HADH activity. *Food Control*, **2016**, 68, 186-191	6.2	3
30	Outline for the revision of ISO Guide 35. *Accreditation and Quality Assurance*, **2013**, 18, 115-118	0.7	2
29	Is measurement uncertainty from sampling related to analyte concentration?. *Analytical Methods*, **2017**, 9, 5989-5996	3.2	2
28	Response to About acceptance and rejection zones *Accreditation and Quality Assurance*, **2010**, 15, 49-51	0.7	2
27	On statistics and measurement results in chemistry *Accreditation and Quality Assurance*, **2008**, 13, 111-112	0.7	2
26	Proficiency testing in analytical chemistry, microbiology and laboratory medicine: working group discussions on current practice and future directions. *Accreditation and Quality Assurance*, **2004**, 9, 635-641	0.7	2
25	Complete curve fitting of extraction profiles for estimating uncertainties in recovery estimates. *Analyst, The*, **2003**, 128, 493-8	5	2
24	Qualitative analysis: a guide to best practice--forensic science extension. *Science and Justice - Journal of the Forensic Science Society*, **2000**, 40, 163-70	2	2
23	The evaluation of measurement uncertainty from method validation studies **2000**, 180-186		2
22	Methane Monooxygenase Biotransformations: Highly Stereoselective Hydroxylation of 3-Methylcyclohexene by Methane Monooxygenase: Steric and Electronic Effects on Product Distribution. *Biocatalysis*, **1988**, 1, 197-204		2
21	Calculated and experimental equilibrium steric isotope effects for carbon in cis-1-[13C]methyl-4-methylcyclohexane. *Journal of the Chemical Society Chemical Communications*, **1984**, 1069		2
20	Impact of Eurachem 25 years of activity. *Accreditation and Quality Assurance*, **2014**, 19, 59-64	0.7	1
19	A reassessment of pork nitrogen factors. *Analytical Methods*, **2015**, 7, 8997-9004	3.2	1
18	Use of a replicated Latin square design in a homogeneity test for high purity organic melting point standards. *Accreditation and Quality Assurance*, **2012**, 17, 283-290	0.7	1
17	The fitness for purpose of randomised experimental designs for analysis of genetically modified ingredients. *European Food Research and Technology*, **2011**, 233, 71-78	3.4	1

16	CCQM-K61: Quantitation of a linearised plasmid DNA, based on a matched standard in a matrix of non-target DNA. *Metrologia*, **2009**, 46, 08021-08021	2.1	1
15	Reply to comments on EURACHEM/CITAC guide "Measurement uncertainty arising from sampling" *Accreditation and Quality Assurance*, **2010**, 15, 533-535	0.7	1
14	Proficiency testing in analytical chemistry, microbiology and laboratory medicine "working group discussions on current status, problems and future directions. *Accreditation and Quality Assurance*, **2006**, 11, 446-450	0.7	1
13	Experimental sensitivity analysis applied to sample preparation uncertainties: are ruggedness tests enough for measurement uncertainty estimates?. *Accreditation and Quality Assurance*, **2001**, 6, 368-371	0.7	1
12	The evaluation of measurement uncertainty from method validation studies **2000**, 187-196		1
11	Extending digital PCR analysis by modelling quantification cycle data. *BMC Bioinformatics*, **2016**, 17, 421	3.6	1
10	An outlier-resistant indicator of anomalies among inter-laboratory comparison data with associated uncertainty. *Metrologia*, **2018**, 55, 840-854	2.1	1
9	Assessment of measurement precision in single-voxel spectroscopy at 7 T: Toward minimal detectable changes of metabolite concentrations in the human brain in vivo. *Magnetic Resonance in Medicine*, **2021**, 87, 1119	4.4	0
8	Applications of robust estimators of covariance in examination of inter-laboratory study data. *Analytical Methods*, **2019**, 11, 2639-2649	3.2	
7	The interlaboratory performance of microbiological methods for food analysis. *Journal of AOAC INTERNATIONAL*, **2012**, 95, 1433-9	1.7	
6	Measurement uncertainty and its implications for collaborative study method validation and method performance parameters **2005**, 37-41		
5	A life cycle approach to method management. *Accreditation and Quality Assurance*, **2001**, 6, 340-345	0.7	
4	The evaluation of measurement uncertainty from method validation studies **2000**, 84-90		
3	The evaluation of measurement uncertainty from method validation studies **2000**, 91-100		
2	Experimental sensitivity analysis applied to sample preparation uncertainties: are ruggedness tests enough for measurement uncertainty estimates? **2003**, 170-173		
1	Reducing the cost of nitrogen factor studies by use of fractional and algorithmic designs. *Food Control*, **2021**, 123, 107825	6.2	