StephenÂ l R Ellison

List of Publications by Year
in descending order

90 papers	4,783 citations	304743 22 h-index	95266 68 g-index
95 all docs	95 docs citations	95 times ranked	5280 citing authors

#	Article	IF	Citations
1	Harmonized guidelines for single-laboratory validation of methods of analysis (IUPAC Technical) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.9	1,965
2	The International Harmonized Protocol for the proficiency testing of analytical chemistry laboratories (IUPAC Technical Report). Pure and Applied Chemistry, 2006, 78, 145-196.	1.9	568
3	Comparison of microfluidic digital PCR and conventional quantitative PCR for measuring copy number variation. Nucleic Acids Research, 2012, 40, e82-e82.	14.5	356
4	Harmonized guidelines for the use of recovery information in analytical measurement. Pure and Applied Chemistry, 1999, 71, 337-348.	1.9	237
5	Standard additions: myth and reality. Analyst, The, 2008, 133, 992.	3.5	136
6	Routes to improving the reliability of low level DNA analysis using real-time PCR. BMC Biotechnology, 2006, 6, 33.	3.3	134
7	Measurement uncertainty: Approaches to the evaluation of uncertainties associated with recoveryâ€. Analyst, The, 1999, 124, 981-990.	3.5	102
8	Dark uncertainty. Accreditation and Quality Assurance, 2011, 16, 483-487.	0.8	96
9	Characterising the performance of qualitative analytical methods: Statistics and terminology. TrAC - Trends in Analytical Chemistry, 2005, 24, 468-476.	11.4	95
10	Using validation data for ISO measurement uncertainty estimationPart 1. Principles of an approach using cause and effect analysis. Analyst, The, 1998, 123, 1387-1392.	3.5	92
11	A theoretical and crystallographic study of the geometries and conformations of fluoro-olefins as peptide analogues. Tetrahedron, 1986, 42, 2101-2110.	1.9	85
12	Treatment of uncorrected measurement bias in uncertainty estimation for chemical measurements. Analytical and Bioanalytical Chemistry, 2008, 390, 201-213.	3.7	68
13	A review of interference effects and their correction in chemical analysis with special reference to uncertainty. Accreditation and Quality Assurance, 2005, 10, 82-97.	0.8	58
14	PerspectiveQuantifying uncertainty in qualitative analysis. Analyst, The, 1998, 123, 1155-1161.	3.5	51
15	A decision theory approach to fitness for purpose in analytical measurement. Analyst, The, 2002, 127, 818-824.	3.5	51
16	The evaluation of measurement uncertainty from method validation studies. Accreditation and Quality Assurance, 2000, 5, 47-53.	0.8	43
17	Estimation of uncertainties in ICP-MS analysis: a practical methodology. Analytica Chimica Acta, 1999, 394, 281-291.	5.4	36
18	Uncertainty for reference materials certified by interlaboratory study: Recommendations of an international study group. Accreditation and Quality Assurance, 2001, 6, 274-277.	0.8	34

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19	Reporting measurement uncertainty and coverage intervals near natural limits. Analyst, The, 2006, 131, 710.	3.5	30
20	Estimating measurement uncertainty using a cause and effect and reconciliation approachPart 2.â€ Measurement uncertainty estimates compared with collaborative trial expectationâ€¡. Analytical Communications, 1998, 35, 377-383.	2.2	28
21	Implementation of proficiency testing schemes for a limited number of participants. Accreditation and Quality Assurance, 2007, 12, 391-398.	0.8	24
22	Measurement of near zero concentration: recording and reporting results that fall close to or below the detection limit. Analyst, The, 2001, 126, 256-259.	3.5	23
23	Including correlation effects in an improved spreadsheet calculation of combined standard uncertainties. Accreditation and Quality Assurance, 2005, 10, 338-343.	0.8	22
24	In defence of the correlation coefficient. Accreditation and Quality Assurance, 2006, 11, 146-152.	0.8	21
25	Implementing measurement uncertainty for analytical chemistry: theEurachem Guidefor measurement uncertainty. Metrologia, 2014, 51, S199-S205.	1.2	21
26	Fitness for purpose â€“ the integrating theme of the revised Harmonised Protocol for Proficiency Testing in Analytical Chemistry Laboratories. Accreditation and Quality Assurance, 2006, 11, 373-378.	0.8	19
27	Experimental studies of uncertainties associated with chromatographic techniques. Journal of Chromatography A, 2001, 918, 267-276.	3.7	18
28	Causes of error in analytical chemistry: results of a web-based survey of proficiency testing participants. Accreditation and Quality Assurance, 2012, 17, 453-464.	0.8	18
29	Uncertainty factor: an alternative way to express measurement uncertainty in chemical measurement. Accreditation and Quality Assurance, 2015, 20, 153-155.	0.8	18
30	Towards an uncertainty paradigm of detection capability. Analytical Methods, 2013, 5, 5857.	2.7	17
31	Scoring in Genetically Modified Organism Proficiency Tests Based on Log-Transformed Results. Journal of AOAC INTERNATIONAL, 2006, 89, 232-239.	1.5	16
32	An international comparability study on quantification of mRNA gene expression ratios: CCQM-P103.1. Biomolecular Detection and Quantification, 2016, 8, 15-28.	7.0	15
33	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.	2.3	14
34	Handling False Negatives, False Positives and Reporting Limits in Analytical Proficiency Tests. Analyst, The, 1997, 122, 495-497.	3.5	13
35	Performance of uncertainty evaluation strategies in a food proficiency scheme. Accreditation and Quality Assurance, 2008, 13, 231-238.	0.8	13
36	House-of-security approach to measurement in analytical chemistry: quantification of human error using expert judgments. Accreditation and Quality Assurance, 2013, 18, 459-467.	0.8	13

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37	Monte Carlo simulation of expert judgments on human errors in chemical analysisâ€"A case study of ICPâ€"MS. Talanta, 2014, 130, 462-469.	5.5	13
38	Homogeneity studies and ISO Guide 35:2006. Accreditation and Quality Assurance, 2015, 20, 519-528.	0.8	13
39	Response surface modelling and kinetic studies for the experimental estimation of measurement uncertainty in derivatisation. Analyst, The, 2001, 126, 199-210.	3.5	11
40	Evaluation of a novel approach for the measurement of RNA quality. BMC Research Notes, 2010, 3, 89.	1.4	11
41	Disseminating traceability in chemical measurement: Principles of a new EURACHEM/CITAC guide. Accreditation and Quality Assurance, 2003, 8, 483-485.	0.8	10
42	A standard additions method reduces inhibitor-induced bias in quantitative real-time PCR. Analytical and Bioanalytical Chemistry, 2011, 401, 3221-3227.	3.7	10
43	Diverse origins of conformational equilibrium isotope effects for hydrogen in 1,3-dioxans. Tetrahedron Letters, 1989, 30, 4585-4588.	1.4	9
44	Predicting chance infrared spectroscopic matching frequencies. Analytica Chimica Acta, 1998, 370, 181-190.	5.4	9
45	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.	3.5	9
46	Title is missing!. Journal of Analytical Chemistry, 2003, 58, 191-191.	0.9	9
47	Comparability and compatibility of proficiency testing results in schemes with a limited number of participants. Accreditation and Quality Assurance, 2007, 12, 563-567.	0.8	9
48	An international comparability study on quantification of total methyl cytosine content. Analytical Biochemistry, 2009, 384, 288-295.	2.4	9
49	Principles for the assessment of homogeneity and stability in the new ISO Guide 35:2017. Accreditation and Quality Assurance, 2018, 23, 47-51.	0.8	8
50	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.	3.3	7
51	Combined uncertainty factor for sampling and analysis. Accreditation and Quality Assurance, 2017, 22, 187-189.	0.8	7
52	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.	1.4	6
53	Method validation in analytical sciences: discussions on current practice and future challenges. Accreditation and Quality Assurance, 2017, 22, 253-263.	0.8	6
54	Final report of CCQM-K86.c. Relative quantification of genomic DNA fragments extracted from a biological tissue. Metrologia, 2020, 57, 08004-08004.	1.2	6

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55	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.	3.5	5
56	Qualitative analysis: A guide to best practice â€“ forensic science extension. Science and Justice - Journal of the Forensic Science Society, 2000, 40, 163-170.	2.1	4
57	Performance of MM-estimators on multi-modal data shows potential for improvements in consensus value estimation. Accreditation and Quality Assurance, 2009, 14, 411-419.	0.8	4
58	Response to â€œAbout acceptance and rejection zonesâ€• Accreditation and Quality Assurance, 2010, 15, 49-51.	0.8	4
59	Handling undetected and low-level components in purity determination. Accreditation and Quality Assurance, 2007, 12, 323-328.	0.8	3
60	Reply to comments on EURACHEM/CITAC guide â€œMeasurement uncertainty arising from samplingâ€• Accreditation and Quality Assurance, 2010, 15, 533-535.	0.8	3
61	Outline for the revision of ISO Guide 35. Accreditation and Quality Assurance, 2013, 18, 115-118.	0.8	3
62	Poultry marketing controls â€“ Inter-laboratory validation of a method to detect previously frozen chicken breasts by determination of HADH activity. Food Control, 2016, 68, 186-191.	5.5	3
63	Assessment of measurement precision in singleâ€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.	3.0	3
64	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.	2.0	2
65	Methane Monooxygenase Biotransformations: Highly Stereoselective Hydroxylation of 3-Methylcyclohexene by Methane Monooxygenase: Steric and Electronic Effects on Product Distribution. Biocatalysis, 1988, 1, 197-204.	0.9	2
66	The evaluation of measurement uncertainty from method validation studies. , 2000, , 187-196.		2
67	The evaluation of measurement uncertainty from method validation studies. , 2000, , 180-186.		2
68	Complete curve fitting of extraction profiles for estimating uncertainties in recovery estimates. Analyst, The, 2003, 128, 493-498.	3.5	2
69	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.	0.8	2
70	Proficiency testing in analytical chemistry, microbiology and laboratory medicine â€“ working group discussions on current status, problems and future directions. Accreditation and Quality Assurance, 2006, 11, 446-450.	0.8	2
71	On â€œstatistics and measurement results in chemistryâ€• Accreditation and Quality Assurance, 2008, 13, 111-112.	0.8	2
72	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.	1.2	2

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73	A reassessment of pork nitrogen factors. Analytical Methods, 2015, 7, 8997-9004.	2.7	2
74	Extending digital PCR analysis by modelling quantification cycle data. BMC Bioinformatics, 2016, 17, 421.	2.6	2
75	Is measurement uncertainty from sampling related to analyte concentration?. Analytical Methods, 2017, 9, 5989-5996.	2.7	2
76	An outlier-resistant indicator of anomalies among inter-laboratory comparison data with associated uncertainty. Metrologia, 2018, 55, 840-854.	1.2	2
77	Experimental sensitivity analysis applied to sample preparation uncertainties: are ruggedness tests enough for measurement uncertainty estimates?. , 2003, , 170-173.		2
78	The evaluation of measurement uncertainty from method validation studies. , 2000, , 91-100.		1
79	Experimental sensitivity analysis applied to sample preparation uncertainties: are ruggedness tests enough for measurement uncertainty estimates?. Accreditation and Quality Assurance, 2001, 6, 368-371.	0.8	1
80	The fitness for purpose of randomised experimental designs for analysis of genetically modified ingredients. European Food Research and Technology, 2011, 233, 71-78.	3.3	1
81	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.	0.8	1
82	Impact of Eurachem 25Âyears of activity. Accreditation and Quality Assurance, 2014, 19, 59-64.	0.8	1
83	Applications of robust estimators of covariance in examination of inter-laboratory study data. Analytical Methods, 2019, 11, 2639-2649.	2.7	1
84	The evaluation of measurement uncertainty from method validation studies. , 2000, , 84-90.		0
85	A life cycle approach to method management. Accreditation and Quality Assurance, 2001, 6, 340-345.	0.8	0
86	Measurement uncertainty and its implications for collaborative study method validation and method performance parameters. , 2005, , 37-41.		0
87	The Interlaboratory Performance of Microbiological Methods for Food Analysis. Journal of AOAC INTERNATIONAL, 2012, 95, 1433-1439.	1.5	0
88	Final report on EURAMET.QM-K12: EURAMET key comparison on the determination of the mass fraction of creatinine in serum. Metrologia, 2013, 50, 08009-08009.	1.2	0
89	Final report on CCQM-K85: Malachite green in fish tissue. Metrologia, 2013, 50, 08010-08010.	1.2	0
90	Reducing the cost of nitrogen factor studies by use of fractional and algorithmic designs. Food Control, 2021, 123, 107825.	5.5	0