

Michael Thompson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88
papers

4,072
citations

25
h-index

63
g-index

108
ext. papers

4,471
ext. citations

3.5
avg, IF

5.61
L-index

#	Paper	IF	Citations
88	Harmonized guidelines for single-laboratory validation of methods of analysis (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2002 , 74, 835-855	2.1	1591
87	The International Harmonized Protocol for the proficiency testing of analytical chemistry laboratories (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2006 , 78, 145-196	2.1	482
86	Recent trends in inter-laboratory precision at ppb and sub-ppb concentrations in relation to fitness for purpose criteria in proficiency testing. <i>Analyst, The</i> , 2000 , 125, 385-386	5	352
85	International Harmonized Protocol for Proficiency Testing of (Chemical) Analytical Laboratories. <i>Journal of AOAC INTERNATIONAL</i> , 1993 , 76, 926-940	1.7	141
84	A new approach to the estimation of analytical precision. <i>Journal of Geochemical Exploration</i> , 1978 , 9, 23-30	3.8	134
83	Objective evaluation of precision requirements for geochemical analysis using robust analysis of variance. <i>Journal of Geochemical Exploration</i> , 1992 , 44, 23-36	3.8	101
82	A comparison of the Kjeldahl and Dumas methods for the determination of protein in foods, using data from a proficiency testing scheme. <i>Analyst, The</i> , 2002 , 127, 1666-8	5	79
81	Variation of precision with concentration in an analytical system. <i>Analyst, The</i> , 1988 , 113, 1579	5	77
80	What exactly is fitness for purpose in analytical measurement?. <i>Analyst, The</i> , 1996 , 121, 275	5	76
79	Quality concepts and practices applied to sampling in an exploratory study. <i>Analyst, The</i> , 1995 , 120, 261-270	5	71
78	Dark uncertainty. <i>Accreditation and Quality Assurance</i> , 2011 , 16, 483-487	0.7	59
77	The Horwitz Function Revisited. <i>Journal of AOAC INTERNATIONAL</i> , 1997 , 80, 676-680	1.7	59
76	A review of interference effects and their correction in chemical analysis with special reference to uncertainty. <i>Accreditation and Quality Assurance</i> , 2005 , 10, 82-97	0.7	47
75	A decision theory approach to fitness for purpose in analytical measurement. <i>Analyst, The</i> , 2002 , 127, 818-24	5	42
74	The frequency distribution of analytical error. <i>Analyst, The</i> , 1980 , 105, 1188	5	41
73	Uncertainty from sampling, in the context of fitness for purpose. <i>Accreditation and Quality Assurance</i> , 2007 , 12, 503-513	0.7	39
72	GeoPT1. INTERNATIONAL PROFICIENCY TEST FOR ANALYTICAL GEOCHEMISTRY LABORATORIES [REPORT ON ROUND 1 (JULY 1996)]. <i>Geostandards and Geoanalytical Research</i> , 1996 , 20, 295-325	3.6	39

71	Bump-hunting for the proficiency tester--searching for multimodality. <i>Analyst, The</i> , 2002 , 127, 1359-64	5	38
70	Towards a unified model of errors in analytical measurement. <i>Analyst, The</i> , 2000 , 125, 2020-2025	5	38
69	Estimation of sampling bias between different sampling protocols on contaminated land. <i>Analyst, The</i> , 1995 , 120, 1353	5	35
68	Proficiency testing in sampling: pilot study on contaminated land. <i>Analyst, The</i> , 1995 , 120, 2799	5	33
67	Precision in chemical analysis: a critical survey of uses and abuses. <i>Analytical Methods</i> , 2012 , 4, 1598	3.2	30
66	Uncertainty functions, a compact way of summarising or specifying the behaviour of analytical systems. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1168-1175	14.6	30
65	Using uncertainty functions to predict and specify the performance of analytical methods. <i>Accreditation and Quality Assurance</i> , 2006 , 10, 471-478	0.7	29
64	On the collaborative trial in sampling. <i>Analyst, The</i> , 1995 , 120, 2309	5	28
63	Perspective Do we really need detection limits?. <i>Analyst, The</i> , 1998 , 123, 405-407	5	22
62	Estimating and using sampling precision in surveys of trace constituents of soils. <i>Analyst, The</i> , 1993 , 118, 1107	5	20
61	A natural history of analytical methods□ <i>Analyst, The</i> , 1999 , 124, 991-991	5	19
60	Scoring in Genetically Modified Organism Proficiency Tests Based on Log-Transformed Results. <i>Journal of AOAC INTERNATIONAL</i> , 2006 , 89, 232-239	1.7	16
59	Efficacy of robust analysis of variance for the interpretation of data from collaborative trials. <i>Analyst, The</i> , 1993 , 118, 235	5	16
58	GeoPT - A Proficiency Test for Geoanalysis□ <i>Analyst, The</i> , 1997 , 122, 1249-1254	5	15
57	Bias in the Determination of Zr, Y and Rare Earth Element Concentrations in Selected Silicate Rocks by ICP-MS when Using Some Routine Acid Dissolution Procedures: Evidence from the GeoPT Proficiency Testing Programme. <i>Geostandards and Geoanalytical Research</i> , 2015 , 39, 315-327	3.6	14
56	Testing for bias between the Kjeldahl and Dumas methods for the determination of nitrogen in meat mixtures, by using data from a designed interlaboratory experiment. <i>Meat Science</i> , 2004 , 68, 631-4 ^{6.4}	6.4	13
55	The efficient cross-validation of principal components applied to principal component regression. <i>Statistics and Computing</i> , 1995 , 5, 227-235	1.8	13
54	The characteristic function, a method-specific alternative to the Horwitz function. <i>Journal of AOAC INTERNATIONAL</i> , 2012 , 95, 1803-6	1.7	12

53	A general model for interlaboratory precision accounts for statistics from proficiency testing in food analysis. <i>Accreditation and Quality Assurance</i> , 2008 , 13, 223-230	0.7	12
52	Quality control of sampling: proof of concept. <i>Analyst, The</i> , 2002 , 127, 174-7	5	11
51	Sampling: the uncertainty that dares not speak its name. <i>Journal of Environmental Monitoring</i> , 1999 , 1, 19N-21N		11
50	Limitations of the application of the Horwitz Equation: A rebuttal. <i>TrAC - Trends in Analytical Chemistry</i> , 2007 , 26, 659-661	14.6	10
49	An emergent optimal precision in chemical measurement at low concentrations. <i>Analytical Methods</i> , 2013 , 5, 4518	3.2	9
48	The GeoPT Proficiency Testing Scheme for Laboratories Routinely Analysing Silicate Rocks: A Review of the Operating Protocol and Proposals for its Modification. <i>Geostandards and Geoanalytical Research</i> , 2015 , 39, 433-442	3.6	9
47	Methodology in internal quality control of chemical analysis. <i>Accreditation and Quality Assurance</i> , 2013 , 18, 271-278	0.7	8
46	Notes on Statistics and Data Quality for Analytical Chemists 2011 ,		8
45	An Assessment of Performance in the Routine Analysis of Silicate Rocks Based on an Analysis of Data Submitted to the GeoPT Proficiency Testing Programme for Geochemical Laboratories (2001-2011). <i>Geostandards and Geoanalytical Research</i> , 2013 , 37, 403-416	3.6	7
44	Use of the characteristic function for modelling repeatability precision. <i>Accreditation and Quality Assurance</i> , 2011 , 16, 13-19	0.7	7
43	Using mixture models for bump-hunting in the results of proficiency tests. <i>Accreditation and Quality Assurance</i> , 2006 , 10, 501-505	0.7	7
42	The Reliability of Assigned Values from the GeoPT Proficiency Testing Programme from an Evaluation of Data for Six Test Materials that have been Characterised as Certified Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2015 , 39, 407-417	3.6	6
41	The relationship between accreditation status and performance in a proficiency test. <i>Accreditation and Quality Assurance</i> , 2009 , 14, 73-78	0.7	6
40	Examples of the characteristic function applied to instrumental precision in chemical measurement. <i>Accreditation and Quality Assurance</i> , 2009 , 14, 147-150	0.7	5
39	GeoPT5. An International Proficiency Test for Analytical Geochemistry Laboratories - Report on Round 5. <i>Geostandards and Geoanalytical Research</i> , 2000 , 24, E1-E28	3.6	5
38	Detection of Sub-Nanomolar Concentration of Trypsin by Thickness-Shear Mode Acoustic Biosensor and Spectrophotometry. <i>Biosensors</i> , 2021 , 11,	5.9	5
37	Assessing the stability of a proficiency test material by participant-blind re-use after a period of storage. <i>Analytical Methods</i> , 2015 , 7, 9753-9755	3.2	4
36	CHAPTER 2: Classical Linear Regression by the Least Squares Method. <i>Metal Ions in Life Sciences</i> , 2013 , 52-122		4

35	Do we need to rethink collaborative trials?. <i>Accreditation and Quality Assurance</i> , 2008 , 13, 479-482	0.7	4
34	Reply to the letters to the editor by Samuel Wunderli, <i>Accred Qual Assur</i> (2003) 8:90 and 367. <i>Accreditation and Quality Assurance</i> , 2004 , 9, 425	0.7	4
33	Collaborative trials of the sampling of two foodstuffs, wheat and green coffee. <i>Analyst, The</i> , 2002 , 127, 689-91	5	4
32	Precision estimates produced by specially-designed ruggedness tests compared with those derived from collaborative trials, in relation to estimation of measurement uncertainty. <i>Analyst, The</i> , 2002 , 127, 1669-75	5	4
31	Estimating sampling bias by using paired samples. <i>Analytical Communications</i> , 1999 , 36, 247-248		4
30	Is your Homogeneity test really useful?. <i>Analytical Methods</i> , 2015 , 7, 1627-1629	3.2	3
29	Analytical methodology in the Applied Geochemistry Research Group (1950-1988) at the Imperial College of Science and Technology, London. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2010 , 10, 251-259	1.8	3
28	A long-term look at homogeneity testing: prospects for a cheaper quality control-based test. <i>Analytical Methods</i> , 2011 , 3, 2529	3.2	3
27	Instability and heterogeneity: a new approach needed!. <i>Accreditation and Quality Assurance</i> , 2008 , 13, 581-584	0.7	3
26	A pilot study of routine quality control of sampling by the SAD method, applied to packaged and bulk foods. <i>Analyst, The</i> , 2004 , 129, 359-63	5	3
25	Advances in Electromagnetic Piezoelectric Acoustic Sensor Technology for Biosensor-Based Detection. <i>Chemosensors</i> , 2021 , 9, 58	4	3
24	On-Chip Glucose Detection Based on Glucose Oxidase Immobilized on a Platinum-Modified, Gold Microband Electrode. <i>Biosensors</i> , 2021 , 11,	5.9	3
23	Assembling Surface Linker Chemistry with Minimization of Non-Specific Adsorption on Biosensor Materials. <i>Materials</i> , 2021 , 14,	3.5	3
22	On the validation by inter-laboratory study of procedures in chemical measurement. <i>Analytical Methods</i> , 2016 , 8, 8147-8150	3.2	2
21	On matrix reference materials characterised by proficiency test. <i>Analytical Methods</i> , 2016 , 8, 4908-4911	3.2	2
20	The comparison between reproducibility standard deviations from collaborative trials and proficiency tests: a preliminary study from food analysis. <i>Analytical Methods</i> , 2016 , 8, 742-746	3.2	2
19	The Long-Term Robustness and Stability of Consensus Values as Composition Location Estimators for a Typical Geochemical Test Material in the GeoPT Proficiency Testing Programme. <i>Geostandards and Geoanalytical Research</i> , 2019 , 43, 397-408	3.6	2
18	On the role of the mode as a location parameter for the results of proficiency tests in chemical measurement. <i>Analytical Methods</i> , 2017 , 9, 5534-5540	3.2	2

17	Multiple univariate symbolic control chart for internal quality control of analytical data. <i>Analytical Communications</i> , 1998 , 35, 205-208		2
16	Electromagnetic Piezoelectric Acoustic Sensor Detection of Extracellular Vesicles through Interaction with Detached Vesicle Proteins. <i>Biosensors</i> , 2020 , 10,	5.9	2
15	Deactivation of SARS-CoV-2 via Shielding of Spike Glycoprotein Using Carbon Quantum Dots: Bioinformatic Perspective. <i>Covid</i> , 2021 , 1, 120-129		2
14	A Properly Developed Consensus from a Proficiency Test is, for All Practical Purposes, Interchangeable with a Certified Value for a Matrix Reference Material Derived from an Interlaboratory Comparison. <i>Geostandards and Geoanalytical Research</i> , 2018 , 42, 91-96	3.6	2
13	The GeoPT Proficiency Testing Programme as a Scheme for the Certification of Geological Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2019 , 43, 409-418	3.6	1
12	Radiation-Activated Pre-Differentiated Retinal Tissue Monitored by Acoustic Wave Biosensor. <i>Sensors</i> , 2020 , 20,	3.8	1
11	The stability of 57 consensus values in a proficiency test material re-issued blind after an interval of 18 years. <i>Analytical Methods</i> , 2018 , 10, 1547-1551	3.2	1
10	What exactly is uncertainty?. <i>Accreditation and Quality Assurance</i> , 2012 , 17, 93-94	0.7	1
9	Comment on Editorial Chemists' views on measurement results are influenced too much by statistical considerations and not enough by the application of simple metrological principles. <i>Accreditation and Quality Assurance</i> , 2011 , 16, 583-584	0.7	1
8	GeoPT4. An International Proficiency Test for Analytical Geochemistry Laboratories - Report on Round 4 (March 1999). <i>Geostandards and Geoanalytical Research</i> , 2000 , 24, E1-E37	3.6	1
7	Electrochemical Sensor for the Direct Determination of Warfarin in Blood. <i>Chemosensors</i> , 2022 , 10, 44	4	0
6	Traceability in perspective. <i>Accreditation and Quality Assurance</i> , 2012 , 17, 353-354	0.7	
5	Towards an explanation of the Horwitz function. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	
4	Comparison of reproducibility precision on mass fraction in some interlaboratory studies of methods of food analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 414, 1105	4.4	
3	Statistical internal quality control (SIQC) in chemical measurement - do we really understand it?. <i>Accreditation and Quality Assurance</i> , 2021 , 26, 99-101	0.7	
2	On normal and log-normal models imposed on results from proficiency tests for genetically modified organisms (GMO). <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 4699-4705	4.4	
1	Long-Term Reduction of Bacterial Adhesion on Polyurethane by an Ultra-Thin Surface Modifier. <i>Biomedicines</i> , 2022 , 10, 979	4.8	