Michael Thompson

List of Publications by Year
in descending order

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Version: 2024-02-01

96 papers	5,059 citations	236925 25 h-index	88630 70 g-index
108 all docs	108 docs citations	108 times ranked	4119 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	Recent trends in inter-laboratory precision at ppb and sub-ppb concentrations in relation to fitness for purpose criteria in proficiency testing. Analyst, The, 2000, 125, 385-386.	3.5	405
4	International Harmonized Protocol for Proficiency Testing of (Chemical) Analytical Laboratories. Journal of AOAC INTERNATIONAL, 1993, 76, 926-940.	1.5	171
5	A new approach to the estimation of analytical precision. Journal of Geochemical Exploration, 1978, 9, 23-30.	3.2	160
6	Objective evaluation of precision requirements for geochemical analysis using robust analysis of variance. Journal of Geochemical Exploration, 1992, 44, 23-36.	3.2	117
7	A comparison of the Kjeldahl and Dumas methods for the determination of protein in foods, using data from a proficiency testing scheme. Analyst, The, 2002, 127, 1666-1668.	3.5	101
8	Variation of precision with concentration in an analytical system. Analyst, The, 1988, 113, 1579.	3.5	98
9	What exactly is fitness for purpose in analytical measurement?. Analyst, The, 1996, 121, 275.	3.5	97
10	Dark uncertainty. Accreditation and Quality Assurance, 2011, 16, 483-487.	0.8	96
11	Quality concepts and practices applied to samplingâ€”an exploratory study. Analyst, The, 1995, 120, 261-270.	3.5	95
12	The Horwitz Function Revisited. Journal of AOAC INTERNATIONAL, 1997, 80, 676-680.	1.5	67
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	The frequency distribution of analytical error. Analyst, The, 1980, 105, 1188.	3.5	52
15	A decision theory approach to fitness for purpose in analytical measurement. Analyst, The, 2002, 127, 818-824.	3.5	51
16	GeoPT1. INTERNATIONAL PROFICIENCY TEST FOR ANALYTICAL GEOCHEMISTRY LABORATORIES - REPORT ON ROUND 1 (JULY 1996). Geostandards and Geoanalytical Research, 1996, 20, 295-325.	3.1	49
17	Estimation of sampling bias between different sampling protocols on contaminated land. Analyst, The, 1995, 120, 1353.	3.5	47
18	Uncertainty from sampling, in the context of fitness for purpose. Accreditation and Quality Assurance, 2007, 12, 503-513.	0.8	45

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19	Proficiency testing in sampling: pilot study on contaminated land. Analyst, The, 1995, 120, 2799.	3.5	43
20	Towards a unified model of errors in analytical measurement. Analyst, The, 2000, 125, 2020-2025.	3.5	41
21	Bump-hunting for the proficiency testerâ€"searching for multimodality. Analyst, The, 2002, 127, 1359-1364.	3.5	40
22	On the collaborative trial in sampling. Analyst, The, 1995, 120, 2309.	3.5	39
23	Using uncertainty functions to predict and specify the performance of analytical methods. Accreditation and Quality Assurance, 2006, 10, 471-478.	0.8	38
24	Precision in chemical analysis: a critical survey of uses and abuses. Analytical Methods, 2012, 4, 1598.	2.7	36
25	Uncertainty functions, a compact way of summarising or specifying the behaviour of analytical systems. TrAC - Trends in Analytical Chemistry, 2011, 30, 1168-1175.	11.4	35
26	Estimating and using sampling precision in surveys of trace constituents of soils. Analyst, The, 1993, 118, 1107.	3.5	26
27	PerspectiveDo we really need detection limits?. Analyst, The, 1998, 123, 405-407.	3.5	26
28	A natural history of analytical methodsâ€. Analyst, The, 1999, 124, 991-991.	3.5	23
29	The efficient cross-validation of principal components applied to principal component regression. Statistics and Computing, 1995, 5, 227-235.	1.5	21
30	Bias in the Determination of Zr, Y and Rare Earth Element Concentrations in Selected Silicate Rocks by ICPâ€MS when Using Some Routine Acid Dissolution Procedures: Evidence from the GeoPT Proficiency Testing Programme. Geostandards and Geoanalytical Research, 2015, 39, 315-327.	3.1	21
31	GeoPT - A Proficiency Test for Geoanalysisâ€. Analyst, The, 1997, 122, 1249-1254.	3.5	19
32	Efficacy of robust analysis of variance for the interpretation of data from collaborative trials. Analyst, The, 1993, 118, 235.	3.5	18
33	Towards an uncertainty paradigm of detection capability. Analytical Methods, 2013, 5, 5857.	2.7	17
34	Scoring in Genetically Modified Organism Proficiency Tests Based on Log-Transformed Results. Journal of AOAC INTERNATIONAL, 2006, 89, 232-239.	1.5	16
35	Detection of E. coli Bacteria in Milk by an Acoustic Wave Aptasensor with an Anti-Fouling Coating. Sensors, 2022, 22, 1853.	3.8	16
36	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. Meat Science, 2004, 68, 631-634.	5.5	15

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37	A general model for interlaboratory precision accounts for statistics from proficiency testing in food analysis. Accreditation and Quality Assurance, 2008, 13, 223-230.	0.8	15
38	The Characteristic Function, a Method-Specific Alternative to the Horwitz Function. Journal of AOAC INTERNATIONAL, 2012, 95, 1803-1806.	1.5	15
39	Detection of Sub-Nanomolar Concentration of Trypsin by Thickness-Shear Mode Acoustic Biosensor and Spectrophotometry. Biosensors, 2021, 11, 117.	4.7	14
40	Methodology in internal quality control of chemical analysis. Accreditation and Quality Assurance, 2013, 18, 271-278.	0.8	13
41	Sampling: the uncertainty that dares not speak its name. Journal of Environmental Monitoring, 1999, 1, 19N.	2.1	12
42	Limitations of the application of the Horwitz Equation: A rebuttal. TrAC - Trends in Analytical Chemistry, 2007, 26, 659-661.	11.4	12
43	The GeoPT Proficiency Testing Scheme for Laboratories Routinely Analysing Silicate Rocks: A Review of the Operating Protocol and Proposals for its Modification. Geostandards and Geoanalytical Research, 2015, 39, 433-442.	3.1	12
44	Quality control of sampling: Proof of concept. Analyst, The, 2002, 127, 174-177.	3.5	11
45	Use of the â€˜characteristic functionâ€™ for modelling repeatability precision. Accreditation and Quality Assurance, 2011, 16, 13-19.	0.8	11
46	The relationship between accreditation status and performance in a proficiency test. Accreditation and Quality Assurance, 2009, 14, 73-78.	0.8	10
47	Deactivation of SARS-CoV-2 via Shielding of Spike Glycoprotein Using Carbon Quantum Dots: Bioinformatic Perspective. Covid, 2021, 1, 120-129.	1.5	10
48	An emergent optimal precision in chemical measurement at low concentrations. Analytical Methods, 2013, 5, 4518.	2.7	9
49	Assembling Surface Linker Chemistry with Minimization of Non-Specific Adsorption on Biosensor Materials. Materials, 2021, 14, 472.	2.9	9
50	GeoPT5. An International Proficiency Test for Analytical Geochemistry Laboratories - Report on Round 5. Geostandards and Geoanalytical Research, 2000, 24, E1-E28.	3.1	8
51	Using mixture models for bump-hunting in the results of proficiency tests. Accreditation and Quality Assurance, 2006, 10, 501-505.	0.8	8
52	The Reliability of Assigned Values from the Geo<scp>PT</scp> Proficiency Testing Programme from an Evaluation of Data for Six Test Materials that have been Characterised as Certified Reference Materials. Geostandards and Geoanalytical Research, 2015, 39, 407-417.	3.1	8
53	On-Chip Glucose Detection Based on Glucose Oxidase Immobilized on a Platinum-Modified, Gold Microband Electrode. Biosensors, 2021, 11, 249.	4.7	8
54	An Assessment of Performance in the Routine Analysis of Silicate Rocks Based on an Analysis of Data Submitted to the GeoPTProficiency Testing Programme for Geochemical Laboratories (2001-2011). Geostandards and Geoanalytical Research, 2013, 37, 403-416.	3.1	7

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55	Precision estimates produced by specially-designed ruggedness tests compared with those derived from collaborative trials, in relation to estimation of measurement uncertainty. Analyst, The, 2002, 127, 1669-1675.	3.5	6
56	Advances in Electromagnetic Piezoelectric Acoustic Sensor Technology for Biosensor-Based Detection. Chemosensors, 2021, 9, 58.	3.6	6
57	Anti-Thrombogenicity Study of a Covalently-Attached Monolayer on Stent-Grade Stainless Steel. Materials, 2021, 14, 2342.	2.9	6
58	Multiple univariate symbolic control chart for internal quality control of analytical data. Analytical Communications, 1998, 35, 205-208.	2.2	5
59	Reply to the letters to the editor by Samuel Wunderli, Accred Qual Assur (2003) 8:90 and 367. Accreditation and Quality Assurance, 2004, 9, 425.	0.8	5
60	Examples of the â€˜characteristicâ€™ function applied to instrumental precision in chemical measurement. Accreditation and Quality Assurance, 2009, 14, 147-150.	0.8	5
61	Classical Linear Regression by the Least Squares Method. Metal Ions in Life Sciences, 2013, , 52-122.	1.0	5
62	Is your â€˜homogeneity testâ€™ really useful?. Analytical Methods, 2015, 7, 1627-1629.	2.7	5
63	The Longâ€Term Robustness and Stability of Consensus Values as Composition Location Estimators for a Typical Geochemical Test Material in the Geo PT Proficiency Testing Programme. Geostandards and Geoanalytical Research, 2019, 43, 397-408.	3.1	5
64	Electromagnetic Piezoelectric Acoustic Sensor Detection of Extracellular Vesicles through Interaction with Detached Vesicle Proteins. Biosensors, 2020, 10, 173.	4.7	5
65	Estimating sampling bias by using paired samples. Analytical Communications, 1999, 36, 247-248.	2.2	4
66	Collaborative trials of the sampling of two foodstuffs, wheat and green coffee. Analyst, The, 2002, 127, 689-691.	3.5	4
67	A pilot study of routine quality control of sampling by the SAD method, applied to packaged and bulk foodsElectronic supplementary information (ESI) available: 25 SAD charts. See http://www.rsc.org/suppdata/an/b3/b315644n/. Analyst, The, 2004, 129, 359.	3.5	4
68	Do we need to rethink collaborative trials?. Accreditation and Quality Assurance, 2008, 13, 479-482.	0.8	4
69	Analytical methodology in the Applied Geochemistry Research Group (1950â€“1988) at the Imperial College of Science and Technology, London. Geochemistry: Exploration, Environment, Analysis, 2010, 10, 251-259.	0.9	4
70	A new focus for quality in chemical measurement. Analytical Methods, 2014, 6, 8454-8459.	2.7	4
71	Assessing the stability of a proficiency test material by participant-blind re-use after a period of storage. Analytical Methods, 2015, 7, 9753-9755.	2.7	4
72	The Geo PT Proficiency Testing Programme as a SchemeÂfor the Certification of Geological Reference Materials. Geostandards and Geoanalytical Research, 2019, 43, 409-418.	3.1	4

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73	Instability and heterogeneity: a new approach needed!. Accreditation and Quality Assurance, 2008, 13, 581-584.	0.8	3
74	A long-term look at homogeneity testing: prospects for a cheaper â€˜quality controlâ€™ based test. Analytical Methods, 2011, 3, 2529.	2.7	3
75	What exactly is uncertainty?. Accreditation and Quality Assurance, 2012, 17, 93-94.	0.8	3
76	On matrix reference materials characterised by proficiency test. Analytical Methods, 2016, 8, 4908-4911.	2.7	3
77	A careful look at traceability in chemical measurement. Analytical Methods, 2016, 8, 940-941.	2.7	3
78	On the role of the mode as a location parameter for the results of proficiency tests in chemical measurement. Analytical Methods, 2017, 9, 5534-5540.	2.7	3
79	Electrochemical Sensor for the Direct Determination of Warfarin in Blood. Chemosensors, 2022, 10, 44.	3.6	3
80	On the validation by inter-laboratory study of â€˜proceduresâ€™ in chemical measurement. Analytical Methods, 2016, 8, 8147-8150.	2.7	2
81	The comparison between reproducibility standard deviations from collaborative trials and proficiency tests: a preliminary study from food analysis. Analytical Methods, 2016, 8, 742-746.	2.7	2
82	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. Geostandards and Geoanalytical Research, 2018, 42, 91-96.	3.1	2
83	Assigned Values in the Geo PT Proficiency Testing Scheme. Geostandards and Geoanalytical Research, 0, , .	3.1	2
84	Long-Term Reduction of Bacterial Adhesion on Polyurethane by an Ultra-Thin Surface Modifier. Biomedicines, 2022, 10, 979.	3.2	2
85	GeoPT4. An International Proficiency Test for Analytical Geochemistry Laboratories - Report on Round 4 (March 1999). Geostandards and Geoanalytical Research, 2000, 24, E1-E37.	3.1	1
86	Comment on Editorial â€œChemistsâ€™ views on measurement results are influenced too much by statistical considerations and not enough by the application of simple metrological principlesâ€: Accreditation and Quality Assurance, 2011, 16, 583-584.	0.8	1
87	Traceability in perspective. Accreditation and Quality Assurance, 2012, 17, 353-354.	0.8	1
88	The stability of 57 consensus values in a proficiency test material re-issued blind after an interval of 18 years. Analytical Methods, 2018, 10, 1547-1551.	2.7	1
89	Radiation-Activated Pre-Differentiated Retinal Tissue Monitored by Acoustic Wave Biosensor. Sensors, 2020, 20, 2628.	3.8	1
90	Surface Adsorption of the Cancer Biomarker Lysophosphatidic Acid in Serum Studied by Acoustic Wave Biosensor. Materials, 2021, 14, 4158.	2.9	1

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91	Statistical internal quality control (SIQC) in chemical measurementâ€"do we really understand it?. Accreditation and Quality Assurance, 2021, 26, 99-101.	0.8	0
92	On normal and log-normal models imposed on results from proficiency tests for genetically modified organisms (GMO). Analytical and Bioanalytical Chemistry, 2021, 413, 4699-4705.	3.7	0
93	Comparison of reproducibility precision on mass fraction in some interlaboratory studies of methods of food analysis. Analytical and Bioanalytical Chemistry, 2021, 414, 1105.	3.7	0
94	Towards an explanation of the Horwitz function. Analytical and Bioanalytical Chemistry, 2021, , 1.	3.7	0
95	Detection of sub-nanomolar concentration of trypsin by thickness-shear mode (TSM) acoustic wave biosensor. , 2020, 60, .		0
96	Interaction of Lipopolysaccharide-Spiked Blood with Anti-Fouling Polymyxin B-Modified Glass. Materials, 2022, 15, 1551.	2.9	0