

Michael Thompson

List of Publications by Year in Descending Order

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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 | Electrochemical Sensor for the Direct Determination of Warfarin in Blood. <i>Chemosensors</i> , 2022 , 10, 44 | 4 | 0 |
| 87 | Long-Term Reduction of Bacterial Adhesion on Polyurethane by an Ultra-Thin Surface Modifier. <i>Biomedicines</i> , 2022 , 10, 979 | 4.8 | |
| 86 | Towards an explanation of the Horwitz function. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1 | 4.4 | |
| 85 | 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 | |
| 84 | Advances in Electromagnetic Piezoelectric Acoustic Sensor Technology for Biosensor-Based Detection. <i>Chemosensors</i> , 2021 , 9, 58 | 4 | 3 |
| 83 | Detection of Sub-Nanomolar Concentration of Trypsin by Thickness-Shear Mode Acoustic Biosensor and Spectrophotometry. <i>Biosensors</i> , 2021 , 11, | 5.9 | 5 |
| 82 | 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 | |
| 81 | 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 | |
| 80 | Deactivation of SARS-CoV-2 via Shielding of Spike Glycoprotein Using Carbon Quantum Dots: Bioinformatic Perspective. <i>Covid</i> , 2021 , 1, 120-129 | | 2 |
| 79 | On-Chip Glucose Detection Based on Glucose Oxidase Immobilized on a Platinum-Modified, Gold Microband Electrode. <i>Biosensors</i> , 2021 , 11, | 5.9 | 3 |
| 78 | Assembling Surface Linker Chemistry with Minimization of Non-Specific Adsorption on Biosensor Materials. <i>Materials</i> , 2021 , 14, | 3.5 | 3 |
| 77 | Radiation-Activated Pre-Differentiated Retinal Tissue Monitored by Acoustic Wave Biosensor. <i>Sensors</i> , 2020 , 20, | 3.8 | 1 |
| 76 | Electromagnetic Piezoelectric Acoustic Sensor Detection of Extracellular Vesicles through Interaction with Detached Vesicle Proteins. <i>Biosensors</i> , 2020 , 10, | 5.9 | 2 |
| 75 | 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 |
| 74 | 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 |
| 73 | 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 |
| 72 | 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 |

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| 71 | 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 |
| 70 | On the validation by inter-laboratory study of procedures in chemical measurement. <i>Analytical Methods</i> , 2016 , 8, 8147-8150 | 3.2 | 2 |
| 69 | On matrix reference materials characterised by proficiency test. <i>Analytical Methods</i> , 2016 , 8, 4908-4911 | 3.2 | 2 |
| 68 | 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 |
| 67 | 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 |
| 66 | 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 |
| 65 | 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 |
| 64 | Is your homogeneity test really useful?. <i>Analytical Methods</i> , 2015 , 7, 1627-1629 | 3.2 | 3 |
| 63 | 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 |
| 62 | 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 |
| 61 | An emergent optimal precision in chemical measurement at low concentrations. <i>Analytical Methods</i> , 2013 , 5, 4518 | 3.2 | 9 |
| 60 | Methodology in internal quality control of chemical analysis. <i>Accreditation and Quality Assurance</i> , 2013 , 18, 271-278 | 0.7 | 8 |
| 59 | CHAPTER 2: Classical Linear Regression by the Least Squares Method. <i>Metal Ions in Life Sciences</i> , 2013 , 52-122 | | 4 |
| 58 | What exactly is uncertainty?. <i>Accreditation and Quality Assurance</i> , 2012 , 17, 93-94 | 0.7 | 1 |
| 57 | Precision in chemical analysis: a critical survey of uses and abuses. <i>Analytical Methods</i> , 2012 , 4, 1598 | 3.2 | 30 |
| 56 | Traceability in perspective. <i>Accreditation and Quality Assurance</i> , 2012 , 17, 353-354 | 0.7 | |
| 55 | The characteristic function, a method-specific alternative to the Horwitz function. <i>Journal of AOAC INTERNATIONAL</i> , 2012 , 95, 1803-6 | 1.7 | 12 |
| 54 | Use of the characteristic function for modelling repeatability precision. <i>Accreditation and Quality Assurance</i> , 2011 , 16, 13-19 | 0.7 | 7 |

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| 53 | 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 |
| 52 | Dark uncertainty. <i>Accreditation and Quality Assurance</i> , 2011 , 16, 483-487 | 0.7 | 59 |
| 51 | 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 |
| 50 | 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 |
| 49 | Notes on Statistics and Data Quality for Analytical Chemists 2011 , | | 8 |
| 48 | 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 |
| 47 | The relationship between accreditation status and performance in a proficiency test. <i>Accreditation and Quality Assurance</i> , 2009 , 14, 73-78 | 0.7 | 6 |
| 46 | 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 |
| 45 | 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 |
| 44 | Do we need to rethink collaborative trials?. <i>Accreditation and Quality Assurance</i> , 2008 , 13, 479-482 | 0.7 | 4 |
| 43 | Instability and heterogeneity: a new approach needed!. <i>Accreditation and Quality Assurance</i> , 2008 , 13, 581-584 | 0.7 | 3 |
| 42 | Limitations of the application of the Horwitz Equation: A rebuttal. <i>TrAC - Trends in Analytical Chemistry</i> , 2007 , 26, 659-661 | 14.6 | 10 |
| 41 | Uncertainty from sampling, in the context of fitness for purpose. <i>Accreditation and Quality Assurance</i> , 2007 , 12, 503-513 | 0.7 | 39 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |

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| 35 | Reply to the letters to the editor by Samuel Wunderli, Accred Qual Assur (2003) 8:90 and 367. <i>Accreditation and Quality Assurance</i> , 2004 , 9, 425 | 0.7 | 4 |
| 34 | 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 |
| 33 | 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 |
| 32 | 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 |
| 31 | A decision theory approach to fitness for purpose in analytical measurement. <i>Analyst, The</i> , 2002 , 127, 818-24 | 5 | 42 |
| 30 | 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 |
| 29 | Quality control of sampling: proof of concept. <i>Analyst, The</i> , 2002 , 127, 174-7 | 5 | 11 |
| 28 | Bump-hunting for the proficiency tester--searching for multimodality. <i>Analyst, The</i> , 2002 , 127, 1359-64 | 5 | 38 |
| 27 | Collaborative trials of the sampling of two foodstuffs, wheat and green coffee. <i>Analyst, The</i> , 2002 , 127, 689-91 | 5 | 4 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | Towards a unified model of errors in analytical measurement. <i>Analyst, The</i> , 2000 , 125, 2020-2025 | 5 | 38 |
| 21 | A natural history of analytical methods□ <i>Analyst, The</i> , 1999 , 124, 991-991 | 5 | 19 |
| 20 | Estimating sampling bias by using paired samples. <i>Analytical Communications</i> , 1999 , 36, 247-248 | | 4 |
| 19 | Sampling: the uncertainty that dares not speak its name. <i>Journal of Environmental Monitoring</i> , 1999 , 1, 19N-21N | | 11 |
| 18 | Multiple univariate symbolic control chart for internal quality control of analytical data. <i>Analytical Communications</i> , 1998 , 35, 205-208 | | 2 |

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| 17 | Perspective Do we really need detection limits?. <i>Analyst, The</i> , 1998 , 123, 405-407 | 5 | 22 |
| 16 | GeoPT - A Proficiency Test for Geoanalysis. <i>Analyst, The</i> , 1997 , 122, 1249-1254 | 5 | 15 |
| 15 | The Horwitz Function Revisited. <i>Journal of AOAC INTERNATIONAL</i> , 1997 , 80, 676-680 | 1.7 | 59 |
| 14 | What exactly is fitness for purpose in analytical measurement?. <i>Analyst, The</i> , 1996 , 121, 275 | 5 | 76 |
| 13 | 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 |
| 12 | The efficient cross-validation of principal components applied to principal component regression. <i>Statistics and Computing</i> , 1995 , 5, 227-235 | 1.8 | 13 |
| 11 | Proficiency testing in sampling: pilot study on contaminated land. <i>Analyst, The</i> , 1995 , 120, 2799 | 5 | 33 |
| 10 | Estimation of sampling bias between different sampling protocols on contaminated land. <i>Analyst, The</i> , 1995 , 120, 1353 | 5 | 35 |
| 9 | On the collaborative trial in sampling. <i>Analyst, The</i> , 1995 , 120, 2309 | 5 | 28 |
| 8 | Quality concepts and practices applied to sampling in an exploratory study. <i>Analyst, The</i> , 1995 , 120, 261-270 | 5 | 71 |
| 7 | Efficacy of robust analysis of variance for the interpretation of data from collaborative trials. <i>Analyst, The</i> , 1993 , 118, 235 | 5 | 16 |
| 6 | Estimating and using sampling precision in surveys of trace constituents of soils. <i>Analyst, The</i> , 1993 , 118, 1107 | 5 | 20 |
| 5 | International Harmonized Protocol for Proficiency Testing of (Chemical) Analytical Laboratories. <i>Journal of AOAC INTERNATIONAL</i> , 1993 , 76, 926-940 | 1.7 | 141 |
| 4 | 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 |
| 3 | Variation of precision with concentration in an analytical system. <i>Analyst, The</i> , 1988 , 113, 1579 | 5 | 77 |
| 2 | The frequency distribution of analytical error. <i>Analyst, The</i> , 1980 , 105, 1188 | 5 | 41 |
| 1 | A new approach to the estimation of analytical precision. <i>Journal of Geochemical Exploration</i> , 1978 , 9, 23-30 | 3.8 | 134 |