# Gavin O'Connor

List of Publications by Year
in descending order



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|---|---|---|---|
| 55 papers | 2,112 citations | 218381 26 h-index | 233125 45 g-index |
| 56 all docs | 56 docs citations | 56 times ranked | 2347 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Review on proteomics for food authentication. Journal of Proteomics, 2016, 147, 212-225. | 1.2 | 136 |
| 2 | Protein Quantification by Isotope Dilution Mass Spectrometry of Proteolytic Fragments: Cleavage Rate and Accuracy. Analytical Chemistry, 2008, 80, 4154-4160. | 3.2 | 124 |
| 3 | Current Perspectives and Recommendations for the Development of Mass Spectrometry Methods for the Determination of Allergens in Foods. Journal of AOAC INTERNATIONAL, 2011, 94, 1026-1033. | 0.7 | 103 |
| 4 | Conformational changes in oxidatively stressed monoclonal antibodies studied by hydrogen exchange mass spectrometry. Protein Science, 2010, 19, 826-835. | 3.1 | 88 |
| 5 | Ambient mass spectrometry: advances and applications in forensics. Surface and Interface Analysis, 2010, 42, 347-357. | 0.8 | 88 |
| 6 | Chemical standards for ion mobility spectrometry: a review. International Journal for Ion Mobility Spectrometry, 2009, 12, 1-14. | 1.4 | 84 |
| 7 | Are current analytical methods suitable to verify VITALÂ® 2.0/3.0 allergen reference doses for EU allergens in foods?. Food and Chemical Toxicology, 2020, 145, 111709. | 1.8 | 83 |
| 8 | Toward SystÃ¨me International dâ€™UnitÃ©-traceable protein quantification: From amino acids to proteins. Analytical Biochemistry, 2008, 376, 242-251. | 1.1 | 79 |
| 9 | Selenium speciation analysis of selenium-enriched supplements by HPLC with ultrasonic nebulisation ICP-MS and electrospray MS/MS detection. Journal of Analytical Atomic Spectrometry, 2004, 19, 1529-1538. | 1.6 | 77 |
| 10 | The effect of electrospray solvent composition on desorption electrospray ionisation (DESI) efficiency and spatial resolution. Analyst, The, 2010, 135, 731. | 1.7 | 74 |
| 11 | Development of a liquid chromatographyâ€“mass spectrometry method for the high-accuracy determination of creatinine in serum. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 794, 125-136. | 1.2 | 68 |
| 12 | Defining the wheat gluten peptide fingerprint via a discovery and targeted proteomics approach. Journal of Proteomics, 2016, 147, 156-168. | 1.2 | 68 |
| 13 | Comparison of AFS and ICP-MS detection coupled with gas chromatography for the determination of methylmercury in marine samples. Analytica Chimica Acta, 1999, 390, 245-253. | 2.6 | 67 |
| 14 | Developing Repeatable Measurements for Reliable Analysis of Molecules at Surfaces Using Desorption Electrospray Ionization. Analytical Chemistry, 2009, 81, 2286-2293. | 3.2 | 55 |
| 15 | The Need for Standardization of Tacrolimus Assays. Clinical Chemistry, 2011, 57, 1739-1747. | 1.5 | 55 |
| 16 | Assessment of the repeatability and reproducibility of hydrogen/deuterium exchange mass spectrometry measurements. Rapid Communications in Mass Spectrometry, 2008, 22, 3893-3901. | 0.7 | 54 |
| 17 | Simultaneous identification of selenium-containing glutathione species in selenised yeast by on-line HPLC with ICP-MS and electrospray ionisation quadrupole time of flight (QTOF)-MS/MS. Journal of Analytical Atomic Spectrometry, 2006, 21, 1256-1263. | 1.6 | 40 |
| 18 | Identification of water-soluble gamma-glutamyl-Se-methylselenocysteine in yeast-based selenium supplements by reversed-phase HPLC with ICP-MS and electrospray tandem MS detection. Journal of Analytical Atomic Spectrometry, 2005, 20, 864. | 1.6 | 39 |

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|---|---|---|---|
| 19 | Feasibility study of low pressure inductively coupled plasma mass spectrometry for qualitative and quantitative speciation. Journal of Analytical Atomic Spectrometry, 1996, 11, 1151. | 1.6 | 38 |
| 20 | The feasibility of harmonizing gluten ELISA measurements. Food Chemistry, 2017, 234, 144-154. | 4.2 | 38 |
| 21 | Quantitation of Oligonucleotides by Phosphodiesterase Digestion Followed by Isotope Dilution Mass Spectrometry:Â Proof of Concept. Analytical Chemistry, 2002, 74, 3670-3676. | 3.2 | 37 |
| 22 | Determination of testosterone and epitestosterone glucuronides in urine by ultra performance liquid chromatography-ion mobility-mass spectrometry. Analyst, The, 2011, 136, 3911. | 1.7 | 37 |
| 23 | Quantification of Human Growth Hormone in Serum with a Labeled Protein as an Internal Standard: Essential Considerations. Analytical Chemistry, 2014, 86, 6525-6532. | 3.2 | 36 |
| 24 | High accuracy determination of malachite green and leucomalachite green in salmon tissue by exact matching isotope dilution mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 874, 95-100. | 1.2 | 35 |
| 25 | Onâ€line reaction monitoring by extractive electrospray ionisation. Rapid Communications in Mass Spectrometry, 2011, 25, 1445-1451. | 0.7 | 34 |
| 26 | Amine-reactive isobaric tagging reagents: Requirements for absolute quantification of proteins and peptides. Analytical Biochemistry, 2008, 379, 164-169. | 1.1 | 32 |
| 27 | Current perspectives and recommendations for the development of mass spectrometry methods for the determination of allergens in foods. Journal of AOAC INTERNATIONAL, 2011, 94, 1026-33. | 0.7 | 26 |
| 28 | A comparison of enzymatic digestion for the quantitation of an oligonucleotide by liquid chromatographyâ€“isotope dilution mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 817, 173-182. | 1.2 | 25 |
| 29 | Label-Free Proteomic Analysis of Wheat Gluten Proteins and Their Immunoreactivity to ELISA Antibodies. Cereal Chemistry, 2017, 94, 820-826. | 1.1 | 25 |
| 30 | Low Pressure Inductively Coupled Plasma Ion Source for Molecular and Atomic Mass Spectrometry: The Effect of Reagent Gases. Journal of Analytical Atomic Spectrometry, 1997, 12, 1263-1269. | 1.6 | 24 |
| 31 | Considering the advantages and pitfalls of the use of isotopically labeled protein standards for accurate protein quantification. Bioanalysis, 2011, 3, 2797-2802. | 0.6 | 24 |
| 32 | Towards Absolute Quantification of Allergenic Proteins in Foodâ€”Lysozyme in Wine as a Model System for Metrologically Traceable Mass Spectrometric Methods and Certified Reference Materials. Journal of AOAC INTERNATIONAL, 2013, 96, 1350-1361. | 0.7 | 24 |
| 33 | Low pressure inductively coupled plasma ion source for atomic and molecular mass spectrometry: Investigation of alternative reagent gases for organomercury speciation in tissue and sediment. Journal of Analytical Atomic Spectrometry, 2000, 15, 7-12. | 1.6 | 23 |
| 34 | Fully Traceable Absolute Protein Quantification of Somatropin That Allows Independent Comparison of Somatropin Standards. Clinical Chemistry, 2009, 55, 1984-1990. | 1.5 | 22 |
| 35 | Study of the Effect of Sample Preparation and Cooking on the Selenium Speciation of Selenized Potatoes by HPLC with ICP-MS and Electrospray Ionization MS/MS. Journal of Agricultural and Food Chemistry, 2009, 57, 38-45. | 2.4 | 21 |
| 36 | The Role of Ion Mobility Spectrometryâ€“Mass Spectrometry in the Analysis of Protein Reference Standards. Analytical Chemistry, 2013, 85, 7205-7212. | 3.2 | 21 |

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|---|---|---|---|
| 37 | Investigating microwave hydrolysis for the traceable quantification of peptide standards using gas chromatographyâ€“mass spectrometry. Analytical Biochemistry, 2011, 412, 40-46. | 1.1 | 20 |
| 38 | High accuracy isotope dilution analysis for the determination of ethanol using gas chromatography-combustion-isotope ratio mass spectrometry. Analyst, The, 2000, 125, 2189-2195. | 1.7 | 19 |
| 39 | An assessment of the impact of extraction and digestion protocols on multiplexed targeted protein quantification by mass spectrometry for egg and milk allergens. Analytical and Bioanalytical Chemistry, 2019, 411, 3463-3475. | 1.9 | 19 |
| 40 | Qualitative and quantitative determination of tetraethyllead in fuel using low pressure ICP-MS. Journal of Analytical Atomic Spectrometry, 1999, 14, 1303-1306. | 1.6 | 18 |
| 41 | The validation of exact mass measurements for small molecules using FT-ICRMS for improved confidence in the selection of elemental formulas. Journal of the American Society for Mass Spectrometry, 2005, 16, 1100-1108. | 1.2 | 18 |
| 42 | RNA-induced conformational changes in a viral coat protein studied by hydrogen/deuterium exchange mass spectrometry. Physical Chemistry Chemical Physics, 2010, 12, 13468. | 1.3 | 18 |
| 43 | A reference method for determining the total allergenic protein content in a processed food: the case of milk in cookies as proof of concept. Analytical and Bioanalytical Chemistry, 2020, 412, 8249-8267. | 1.9 | 17 |
| 44 | Evaluation of gas chromatography coupled with low pressure plasma source mass spectrometry for the screening of volatile organic compounds in food. Journal of Separation Science, 2002, 25, 839-846. | 1.3 | 15 |
| 45 | Improved precision and accuracy for high-performance liquid chromatography/Fourier transform ion cyclotron resonance mass spectrometric exact mass measurement of small molecules from the simultaneous and controlled introduction of internal calibrants via a second electrospray nebuliser. Rapid Communications in Mass Spectrometry, 2004, 18, 3035-3040. | 0.7 | 13 |
| 46 | Validation of isotope dilution surfaceâ€enhanced Raman scattering (IDSERS) as a higher order reference method for clinical measurands employing international comparison schemes. Journal of Raman Spectroscopy, 2013, 44, 1246-1252. | 1.2 | 13 |
| 47 | Enhancing the accuracy of measurement of small molecule organic biomarkers. Analytical and Bioanalytical Chemistry, 2019, 411, 7341-7355. | 1.9 | 8 |
| 48 | Analysis of 19-norandrosterone in human urine by gas chromatographyâ€“isotope-dilution mass spectrometry: method adopted by LGC for participation in the ComitÃ© Consultatif pour la QuantitÃ© de MatiÃ¨re (CCQM) Pilot Study P68. Accreditation and Quality Assurance, 2007, 12, 469-474. | 0.4 | 7 |
| 49 | Quantitative Fourier transform ion cyclotron resonance mass spectrometry?the determination of creatinine by isotope dilution mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 375-380. | 0.7 | 6 |
| 50 | The BIOREMA projectâ€”part 1: Towards international comparability for biofuel analysis. Accreditation and Quality Assurance, 2013, 18, 19-28. | 0.4 | 6 |
| 51 | Total cowâ€™s milk protein in cookies: the first interlaboratory comparison with a well-defined measurand fit for food allergen risk assessment. Accreditation and Quality Assurance, 2021, 26, 177-181. | 0.4 | 5 |
| 52 | An international intercomparison for 19-norandrosterone in human urine: the ComitÃ© Consultatif pour la QuantitÃ© de MatiÃ¨re (CCQM) Pilot Study CCQM-P68. Accreditation and Quality Assurance, 2007, 12, 459-464. | 0.4 | 4 |
| 53 | Chapter 11 Plasma sources as alternatives to the atmospheric pressure ICP for speciation studies. Comprehensive Analytical Chemistry, 2000, , 315-382. | 0.7 | 0 |
| 54 | 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. | 0.6 | 0 |

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| 55 | Final report on CCQM-K85: Malachite green in fish tissue. Metrologia, 2013, 50, 08010-08010. | 0.6 | 0 |