Gavin O Connor

List of Publications by Citations

54 papers	1,736 citations	25 h-index	40 g-index
56 ext. papers	1,915 ext. citations	3.6 avg, IF	4.47 L-index

#	Paper	IF	Citations
54	Protein quantification by isotope dilution mass spectrometry of proteolytic fragments: cleavage rate and accuracy. *Analytical Chemistry*, **2008**, 80, 4154-60	7.8	111
53	Review on proteomics for food authentication. *Journal of Proteomics*, **2016**, 147, 212-225	3.9	110
52	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	1.7	93
51	Ambient mass spectrometry: advances and applications in forensics. *Surface and Interface Analysis*, **2010**, 42, 347-357	1.5	79
50	Conformational changes in oxidatively stressed monoclonal antibodies studied by hydrogen exchange mass spectrometry. *Protein Science*, **2010**, 19, 826-35	6.3	76
49	Chemical standards for ion mobility spectrometry: a review. *International Journal for Ion Mobility Spectrometry*, **2009**, 12, 1-14	1.5	73
48	Toward Syst□he International d'Unit□traceable protein quantification: from amino acids to proteins. *Analytical Biochemistry*, **2008**, 376, 242-51	3.1	71
47	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	3.7	69
46	The effect of electrospray solvent composition on desorption electrospray ionisation (DESI) efficiency and spatial resolution. *Analyst, The*, **2010**, 135, 731-7	5	62
45	Development of a liquid chromatography-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, 125-36	3.2	60
44	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	6.6	60
43	Developing repeatable measurements for reliable analysis of molecules at surfaces using desorption electrospray ionization. *Analytical Chemistry*, **2009**, 81, 2286-93	7.8	50
42	The need for standardization of tacrolimus assays. *Clinical Chemistry*, **2011**, 57, 1739-47	5.5	48
41	Assessment of the repeatability and reproducibility of hydrogen/deuterium exchange mass spectrometry measurements. *Rapid Communications in Mass Spectrometry*, **2008**, 22, 3893-901	2.2	47
40	Defining the wheat gluten peptide fingerprint via a discovery and targeted proteomics approach. *Journal of Proteomics*, **2016**, 147, 156-168	3.9	43
39	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	3.7	37
38	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	3.7	37

37	The feasibility of harmonizing gluten ELISA measurements. *Food Chemistry*, **2017**, 234, 144-154	8.5	34
36	Are current analytical methods suitable to verify VITAL 2.0/3.0 allergen reference doses for EU allergens in foods?. *Food and Chemical Toxicology*, **2020**, 145, 111709	4.7	34
35	On-line reaction monitoring by extractive electrospray ionisation. *Rapid Communications in Mass Spectrometry*, **2011**, 25, 1445-51	2.2	33
34	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	3.2	32
33	Determination of testosterone and epitestosterone glucuronides in urine by ultra performance liquid chromatography-ion mobility-mass spectrometry. *Analyst, The*, **2011**, 136, 3911-6	5	31
32	Quantitation of oligonucleotides by phosphodiesterase digestion followed by isotope dilution mass spectrometry: proof of concept. *Analytical Chemistry*, **2002**, 74, 3670-6	7.8	31
31	Amine-reactive isobaric tagging reagents: requirements for absolute quantification of proteins and peptides. *Analytical Biochemistry*, **2008**, 379, 164-9	3.1	30
30	Quantification of human growth hormone in serum with a labeled protein as an internal standard: essential considerations. *Analytical Chemistry*, **2014**, 86, 6525-32	7.8	27
29	Feasibility study of low pressure inductively coupled plasma mass spectrometry for qualitative and quantitative speciation. *Journal of Analytical Atomic Spectrometry*, **1996**, 11, 1151	3.7	24
28	Considering the advantages and pitfalls of the use of isotopically labeled protein standards for accurate protein quantification. *Bioanalysis*, **2011**, 3, 2797-802	2.1	23
27	A comparison of enzymatic digestion for the quantitation of an oligonucleotide by liquid chromatography-isotope dilution mass spectrometry. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2005**, 817, 173-82	3.2	22
26	Towards absolute quantification of allergenic proteins in food--lysozyme in wine as a model system for metrologically traceable mass spectrometric methods and certified reference materials. *Journal of AOAC INTERNATIONAL*, **2013**, 96, 1350-61	1.7	21
25	Fully traceable absolute protein quantification of somatropin that allows independent comparison of somatropin standards. *Clinical Chemistry*, **2009**, 55, 1984-90	5.5	21
24	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	1.7	20
23	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	3.7	19
22	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	5.7	18
21	The role of ion mobility spectrometry-mass spectrometry in the analysis of protein reference standards. *Analytical Chemistry*, **2013**, 85, 7205-12	7.8	17
20	RNA-induced conformational changes in a viral coat protein studied by hydrogen/deuterium exchange mass spectrometry. *Physical Chemistry Chemical Physics*, **2010**, 12, 13468-75	3.6	17

19	High accuracy isotope dilution analysis for the determination of ethanol using gas chromatography-combustion-isotope ratio mass spectrometry. *Analyst, The*, **2000**, 125, 2189-95	5	17
18	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	3.5	16
17	Investigating microwave hydrolysis for the traceable quantification of peptide standards using gas chromatography-mass spectrometry. *Analytical Biochemistry*, **2011**, 412, 40-6	3.1	15
16	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	3.7	15
15	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	4.4	14
14	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, 2825-40	2.2	12
13	Validation of isotope dilution surface-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	2.3	11
12	Qualitative and quantitative determination of tetraethyllead in fuel using low pressure ICP-MS. *Journal of Analytical Atomic Spectrometry*, **1999**, 14, 1303-1306	3.7	10
11	Label-Free Proteomic Analysis of Wheat Gluten Proteins and Their Immunoreactivity to ELISA Antibodies. *Cereal Chemistry*, **2017**, 94, 820-826	2.4	9
10	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	3.4	7
9	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	4.4	7
8	The BIOREMA project Part 1: Towards international comparability for biofuel analysis. *Accreditation and Quality Assurance*, **2013**, 18, 19-28	0.7	6
7	Analysis of 19-norandrosterone in human urine by gas chromatography isotope-dilution mass spectrometry: method adopted by LGC for participation in the Comit Consultatif pour la Quantit de Matie (CCQM) Pilot Study P68. *Accreditation and Quality Assurance*, **2007**, 12, 469-474	0.7	5
6	Quantitative Fourier transform ion cyclotron resonance mass spectrometry--the determination of creatinine by isotope dilution mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2005**, 19, 375-80	2.2	5
5	An international intercomparison for 19-norandrosterone in human urine: the Comit Consultatif pour la Quantit de Matie (CCQM) Pilot Study CCQM-P68. *Accreditation and Quality Assurance*, **2007**, 12, 459-464	0.7	4
4	Enhancing the accuracy of measurement of small molecule organic biomarkers. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 7341-7355	4.4	3
3	Total cows 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	0.7	0
2	Fundamental Aspects of Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) **2007**, 134-159		

1	Chapter 11 Plasma sources as alternatives to the atmospheric pressure ICP for speciation studies. *Comprehensive Analytical Chemistry*, **2000**, 315-382	1.9