James M Harnly

List of Publications by Year in Descending Order

69 papers	5,069 citations	26 h-index	71 g-index
74 ext. papers	6,065 ext. citations	4.1 avg, IF	5.25 L-index

#	Paper	IF	Citations
69	Identification of High and Low Branched-Chain Fatty Acid-Producing Phenotypes in Holstein Cows following High-Forage and Low-Forage Diets in a Crossover Designed Trial.. *Current Developments in Nutrition*, **2022**, 6, nzab154	0.4	1
68	Analytical Challenges and Metrological Approaches to Ensuring Dietary Supplement Quality: International Perspectives.. *Frontiers in Pharmacology*, **2021**, 12, 714434	5.6	3
67	Deriving Information from Complex Data Sets: Impact of Forage on Fatty Acids in Cow Milk. *Journal of Food Composition and Analysis*, **2021**, 104179	4.1	
66	Response to Letter to the Editor regarding "Comparison of phytochemical composition of Ginkgo biloba extracts using a combination of non-targeted and targeted analytical approaches". *Analytical and Bioanalytical Chemistry*, **2021**, 413, 7627-7629	4.4	
65	Identification of Branched-Chain Fatty Acid Producing Phenotypes in Holstein Cows. *Current Developments in Nutrition*, **2021**, 5, 605-605	0.4	1
64	Classification of structural characteristics facilitate identifying steroidal saponins in Alliums using ultra-high performance liquid chromatography high-resolution mass spectrometry. *Journal of Food Composition and Analysis*, **2021**, 102, 103994	4.1	1
63	Macro-and micronutrients in raw plant foods: The similarities of foods and implication for dietary diversification. *Journal of Food Composition and Analysis*, **2021**, 102, 103993	4.1	2
62	USDA's FoodData Central: What is it? and Why is it needed today?. *American Journal of Clinical Nutrition*, **2021**,	7	3
61	Characterization of Maca (Lepidium meyenii/Lepidium peruvianum) Using a Mass Spectral Fingerprinting, Metabolomic Analysis, and Genetic Sequencing Approach. *Planta Medica*, **2020**, 86, 674-685	3.1	3
60	A systematic approach to determine the impact of elevated CO2 levels on the chemical composition of wheat (Triticum aestivum). *Journal of Cereal Science*, **2020**, 95, 103020	3.8	0
59	Identification of adulteration in botanical samples with untargeted metabolomics. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 4273-4286	4.4	10
58	Elimination of the Variance Between Individuals Is Necessary to Evaluate the Impact of Garlic on the Metabolic Profile of Human Urine. *Current Developments in Nutrition*, **2020**, 4, 402-402	0.4	78
57	Comparison of phytochemical composition of Ginkgo biloba extracts using a combination of non-targeted and targeted analytical approaches. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 6789-6809	4.4	7
56	Authentication of black cohosh (Actaea racemosa) dietary supplements based on chemometric evaluation of hydroxycinnamic acid esters and hydroxycinnamic acid amides. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 7147-7156	4.4	3
55	Non-targeted detection of milk powder adulteration by 1H NMR spectroscopy and conformity index analysis. *Journal of Food Composition and Analysis*, **2019**, 78, 49-58	4.1	15
54	Variance of Commercial Powdered Milks Analyzed by Proton Nuclear Magnetic Resonance and Impact on Detection of Adulterants. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 8478-8488	5.7	5
53	The Dietary Supplement Label Database: Recent Developments and Applications. *Journal of Nutrition*, **2018**, 148, 1428S-1435S	4.1	10

52	How similar is similar enough? A sufficient similarity case study with Ginkgo biloba extract. *Food and Chemical Toxicology*, **2018**, 118, 328-339	4.7	25
51	Influence of direct and sequential extraction methodology on metabolic profiling. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2018**, 1073, 34-42	3.2	8
50	Determination of Variance of Secondary Metabolites in Lettuces Grown Under Different Light Sources by Flow Injection Mass Spectrometric (FIMS) Fingerprinting and ANOVA-PCA. *Journal of Analysis and Testing*, **2018**, 2, 312-321	3.2	7
49	Feruloyl dopamine-O-hexosides are efficient marker compounds as orthogonal validation for authentication of black cohosh (Actaea racemosa)-an UHPLC-HRAM-MS chemometrics study. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 2591-2600	4.4	11
48	Botanical supplements: Detecting the transition from ingredient to product. *Journal of Food Composition and Analysis*, **2017**, 64, 85-92	4.1	6
47	A Potential Repellent Against the Coffee Berry Borer (Coleoptera: Curculionidae: Scolytinae). *Journal of Insect Science*, **2017**, 17,	2	10
46	Importance of Accurate Measurements in Nutrition Research: Dietary Flavonoids as a Case Study. *Advances in Nutrition*, **2016**, 7, 375-82	10	5
45	Interlaboratory Trial for Measurement of Vitamin D and 25-Hydroxyvitamin D [25(OH)D] in Foods and a Dietary Supplement Using Liquid Chromatography-Mass Spectrometry. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 3167-75	5.7	22
44	Comparison of Flow Injection MS, NMR, and DNA Sequencing: Methods for Identification and Authentication of Black Cohosh (Actaea racemosa). *Planta Medica*, **2016**, 82, 250-62	3.1	28
43	Comprehensive characterization of C-glycosyl flavones in wheat (Triticum aestivum L.) germ using UPLC-PDA-ESI/HRMS and mass defect filtering. *Journal of Mass Spectrometry*, **2016**, 51, 914-930	2.2	56
42	Differentiation of Whole Grain from Refined Wheat (T. aestivum) Flour Using Lipid Profile of Wheat Bran, Germ, and Endosperm with UHPLC-HRAM Mass Spectrometry. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 6189-211	5.7	40
41	Recommendations on reporting requirements for flavonoids in research. *American Journal of Clinical Nutrition*, **2015**, 101, 1113-25	7	51
40	Use of fuzzy chromatography mass spectrometric (FCMS) fingerprinting and chemometric analysis for differentiation of whole-grain and refined wheat (T. aestivum) flour. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 7875-88	4.4	10
39	A high fat, high cholesterol diet leads to changes in metabolite patterns in pigs--a metabolomic study. *Food Chemistry*, **2015**, 173, 171-8	8.5	15
38	Exploring the Variance of Authentic Skim and Non-Fat Dry Milk Powder Spectra. *NIR News*, **2015**, 26, 11-14	0.8	
37	Myrosinase-dependent and -independent formation and control of isothiocyanate products of glucosinolate hydrolysis. *Frontiers in Plant Science*, **2015**, 6, 831	6.2	70
36	Use of flow injection mass spectrometric fingerprinting and chemometrics for differentiation of three black cohosh species. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2015**, 105, 121-129	3.1	12
35	Changes in the Intestinal Microbiota and Host Inflammatory Gene Expression in Pigs Fed a Flavanol-Enriched Cocoa Powder. *FASEB Journal*, **2015**, 29, 914.4	0.9	

34	Profiling of glucosinolates and flavonoids in Rorippa indica (Linn.) Hiern. (Cruciferae) by UHPLC-PDA-ESI/HRMS(n). *Journal of Agricultural and Food Chemistry*, **2014**, 62, 6118-29	5.7	31
33	Characterization of near-infrared spectral variance in the authentication of skim and nonfat dry milk powder collection using ANOVA-PCA, pooled-ANOVA, and partial least-squares regression. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 8060-7	5.7	19
32	Nontargeted detection of adulteration of skim milk powder with foreign proteins using UHPLC-UV. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 5198-206	5.7	38
31	UHPLC-PDA-ESI/HRMSn profiling method to identify and quantify oligomeric proanthocyanidins in plant products. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 9387-400	5.7	102
30	Exploring authentic skim and nonfat dry milk powder variance for the development of nontargeted adulterant detection methods using near-infrared spectroscopy and chemometrics. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 9810-8	5.7	25
29	Probability of identification: adulteration of American Ginseng with Asian Ginseng. *Journal of AOAC INTERNATIONAL*, **2013**, 96, 1258-65	1.7	23
28	Quantitation of the hydroxycinnamic acid derivatives and the glycosides of flavonols and flavones by UV absorbance after identification by LC-MS. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 544-53	5.7	56
27	Quantitation of flavanols, proanthocyanidins, isoflavones, flavanones, dihydrochalcones, stilbenes, benzoic acid derivatives using ultraviolet absorbance after identification by liquid chromatography-mass spectrometry. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 5832-40	5.7	46
26	Detection of adulterated Ginkgo biloba supplements using chromatographic and spectral fingerprints. *Journal of AOAC INTERNATIONAL*, **2012**, 95, 1579-87	1.7	34
25	Probability of identification: a statistical model for the validation of qualitative botanical identification methods. *Journal of AOAC INTERNATIONAL*, **2012**, 95, 273-85	1.7	19
24	A comparison of analytical and data preprocessing methods for spectral fingerprinting. *Applied Spectroscopy*, **2011**, 65, 250-9	3.1	13
23	Flow Injection Mass Spectroscopic Fingerprinting and Multivariate Analysis for Differentiation of Three Panax Species. *Journal of AOAC INTERNATIONAL*, **2011**, 94, 90-99	1.7	21
22	A Non-targeted Approach to Chemical Discrimination Between Green Tea Dietary Supplements and Green Tea Leaves by HPLC/MS. *Journal of AOAC INTERNATIONAL*, **2011**, 94, 487-497	1.7	13
21	UHPLC-PDA-ESI/HRMS/MS(n) analysis of anthocyanins, flavonol glycosides, and hydroxycinnamic acid derivatives in red mustard greens (Brassica juncea Coss variety). *Journal of Agricultural and Food Chemistry*, **2011**, 59, 12059-72	5.7	90
20	Discrimination Among Panax Species Using Spectral Fingerprinting. *Journal of AOAC INTERNATIONAL*, **2011**, 94, 1411-1421	1.7	7
19	Flow injection mass spectral fingerprints demonstrate chemical differences in Rio Red grapefruit with respect to year, harvest time, and conventional versus organic farming. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 4545-53	5.7	36
18	Variance in the chemical composition of dry beans determined from UV spectral fingerprints. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 8705-10	5.7	21
17	UV spectral fingerprinting and analysis of variance-principal component analysis: a useful tool for characterizing sources of variance in plant materials. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 5457-62	5.7	30

16	Discriminating between cultivars and treatments of broccoli using mass spectral fingerprinting and analysis of variance-principal component analysis. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 9819-27	5.7	48
15	Progress in developing analytical and label-based dietary supplement databases at the NIH Office of Dietary Supplements. *Journal of Food Composition and Analysis*, **2008**, 21, S83-S93	4.1	27
14	The polyphenolic profiles of common bean (L.). *Food Chemistry*, **2008**, 107, 399-410	8.5	140
13	A screening method for the identification of glycosylated flavonoids and other phenolic compounds using a standard analytical approach for all plant materials. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 1084-96	5.7	227
12	Determination of the flavonoid components of cashew apple () by LC-DAD-ESI/MS. *Food Chemistry*, **2007**, 105, 1112-1118	8.5	90
11	Identification and quantification of flavonoids of Mexican oregano () by LC-DAD-ESI/MS analysis. *Journal of Food Composition and Analysis*, **2007**, 20, 361-369	4.1	109
10	Chromatographic fingerprint analysis for evaluation of Ginkgo biloba products. *Analytical and Bioanalytical Chemistry*, **2007**, 389, 251-61	4.4	60
9	Profiling methods for the determination of phenolic compounds in foods and dietary supplements. *Analytical and Bioanalytical Chemistry*, **2007**, 389, 47-61	4.4	71
8	Proposed minimum reporting standards for chemical analysis Chemical Analysis Working Group (CAWG) Metabolomics Standards Initiative (MSI). *Metabolomics*, **2007**, 3, 211-221	4.7	2472
7	Flavonoids and heart health: proceedings of the ILSI North America Flavonoids Workshop, May 31-June 1, 2005, Washington, DC. *Journal of Nutrition*, **2007**, 137, 718S-737S	4.1	271
6	Flavonoid content of U.S. fruits, vegetables, and nuts. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 9966-77	5.7	359
5	Progress in development of an integrated dietary supplement ingredient database at the NIH Office of Dietary Supplements. *Journal of Food Composition and Analysis*, **2006**, 19, S108-S114	4.1	26
4	The spatial distribution and photometric and analytical accuracy of Sn determined by graphite furnace atomic absorption spectrometry in the presence of sulfates and palladium. *Journal of Analytical Atomic Spectrometry*, **2002**, 17, 515-523	3.7	6
3	Evaluation of photometric errors in absorption measurements using spatially resolved continuum source graphite furnace atomic absorption spectrometry. *Journal of Analytical Atomic Spectrometry* , **2001**, 16, 1241-1252	3.7	4
2	Instrumentation for simultaneous multielement atomic absorption spectrometry with graphite furnace atomization. *Analytical and Bioanalytical Chemistry*, **1996**, 355, 501-9	4.4	13
1	Variation of Phytochemicals in Leaves of Seven Accessions of Hibiscus sabdariffa Grown under Field, Green Roof, and High Tunnel Conditions. *ACS Food Science & Technology*,		2