

Willy E Lambert

List of Publications by Year in descending order

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65
papers

4,385
citations

87888

38
h-index

114465

63
g-index

65
all docs

65
docs citations

65
times ranked

4330
citing authors

#	ARTICLE	IF	CITATIONS
1	Matrix effect in bio-analysis of illicit drugs with LC-MS/MS: Influence of ionization type, sample preparation, and biofluid. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 1290-1294.	2.8	533
2	Folate fortification of rice by metabolic engineering. <i>Nature Biotechnology</i> , 2007, 25, 1277-1279.	17.5	276
3	Hemato-critical issues in quantitative analysis of dried blood spots: challenges and solutions. <i>Bioanalysis</i> , 2013, 5, 2023-2041.	1.5	213
4	Countering matrix effects in environmental liquid chromatographyâ€“electrospray ionization tandem mass spectrometry water analysis for endocrine disrupting chemicals. <i>Journal of Chromatography A</i> , 2004, 1029, 153-159.	3.7	192
5	Quantitative analysis of twelve sulfonamides in honey after acidic hydrolysis by high-performance liquid chromatography with post-column derivatization and fluorescence detection. <i>Journal of Chromatography A</i> , 2004, 1047, 85-92.	3.7	143
6	Improving folate (vitamin B9) stability in biofortified rice through metabolic engineering. <i>Nature Biotechnology</i> , 2015, 33, 1076-1078.	17.5	140
7	Dried blood spots in toxicology: from the cradle to the grave?. <i>Critical Reviews in Toxicology</i> , 2012, 42, 230-243.	3.9	137
8	Prediction of the Hematocrit of Dried Blood Spots via Potassium Measurement on a Routine Clinical Chemistry Analyzer. <i>Analytical Chemistry</i> , 2013, 85, 404-410.	6.5	137
9	Comparison of matrix effects in HPLC-MS/MS and UPLC-MS/MS analysis of nine basic pharmaceuticals in surface waters. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 713-718.	2.8	134
10	Does volumetric absorptive microsampling eliminate the hematocrit bias for caffeine and paraxanthine in dried blood samples? A comparative study. <i>Analytica Chimica Acta</i> , 2015, 881, 65-73.	5.4	128
11	Folates and Folic Acid: From Fundamental Research Toward Sustainable Health. <i>Critical Reviews in Plant Sciences</i> , 2010, 29, 14-35.	5.7	114
12	Tackling matrix effects during development of a liquid chromatographicâ€“electrospray ionisation tandem mass spectrometric analysis of nine basic pharmaceuticals in aqueous environmental samples. <i>Journal of Chromatography A</i> , 2006, 1123, 71-81.	3.7	109
13	Stir bar sorptive extractionâ€“thermal desorptionâ€“capillary gas chromatographyâ€“mass spectrometry applied to the analysis of polychlorinated biphenyls in human sperm. <i>Biomedical Applications</i> , 2001, 755, 137-142.	1.7	100
14	pH stability of individual folates during critical sample preparation steps in prevision of the analysis of plant folates. <i>Phytochemical Analysis</i> , 2007, 18, 496-508.	2.4	100
15	A field study on 8 pharmaceuticals and 1 pesticide in Belgium: Removal rates in waste water treatment plants and occurrence in surface water. <i>Science of the Total Environment</i> , 2010, 408, 3448-3453.	8.0	94
16	Potential impact and cost-effectiveness of multi-biofortified rice in China. <i>New Biotechnology</i> , 2012, 29, 432-442.	4.4	92
17	Status and market potential of transgenic biofortified crops. <i>Nature Biotechnology</i> , 2015, 33, 25-29.	17.5	86
18	Current strategies for coping with the hematocrit problem in dried blood spot analysis. <i>Bioanalysis</i> , 2014, 6, 1871-1874.	1.5	83

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19	Validation of a solid-phase extraction and liquid chromatography-electrospray tandem mass spectrometric method for the determination of nine basic pharmaceuticals in wastewater and surface water samples. <i>Journal of Chromatography A</i> , 2008, 1182, 153-160.	3.7	81
20	Comparison of electron and chemical ionization modes by validation of a quantitative gas chromatographic-mass spectrometric assay of new generation antidepressants and their active metabolites in plasma. <i>Journal of Chromatography A</i> , 2007, 1176, 236-245.	3.7	80
21	Spot them in the spot: analysis of abused substances using dried blood spots. <i>Bioanalysis</i> , 2014, 6, 2211-2227.	1.5	80
22	Determination of antidepressants in human postmortem blood, brain tissue, and hair using gas chromatography-mass spectrometry. <i>International Journal of Legal Medicine</i> , 2009, 123, 451-458.	2.2	62
23	Development and Validation of a Liquid Chromatography-Tandem Mass Spectrometry Assay for the Quantification of Docetaxel and Paclitaxel in Human Plasma and Oral Fluid. <i>Analytical Chemistry</i> , 2005, 77, 4677-4683.	6.5	61
24	Potassium-based algorithm allows correction for the hematocrit bias in quantitative analysis of caffeine and its major metabolite in dried blood spots. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6749-6755.	3.7	57
25	Ultra-performance liquid chromatography-tandem mass spectrometry (UPLC-MS/MS) for the sensitive determination of folates in rice. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 509-513.	2.3	56
26	Determination of paramethoxyamphetamine and other amphetamine-related designer drugs by liquid chromatography/sonic spray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 865-870.	1.5	55
27	Optimisation and validation of a liquid chromatography-tandem mass spectrometry method for folates in rice. <i>Journal of Chromatography A</i> , 2008, 1215, 125-132.	3.7	54
28	Regulation of One-Carbon Metabolism in Arabidopsis: The N-Terminal Regulatory Domain of Cystathionine β -Synthase Is Cleaved in Response to Folate Starvation. <i>Plant Physiology</i> , 2007, 145, 491-503.	4.8	53
29	Enhancing pterin and para-aminobenzoate content is not sufficient to successfully biofortify potato tubers and Arabidopsis thaliana plants with folate. <i>Journal of Experimental Botany</i> , 2013, 64, 3899-3909.	4.8	53
30	Investigation of the extraction behavior of the main monoglutamate folates from spinach by liquid chromatography-electrospray ionization tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2005, 1078, 59-66.	3.7	52
31	C1 metabolism and chlorophyll synthesis: the Mg-protoporphyrin IX methyltransferase activity is dependent on the folate status. <i>New Phytologist</i> , 2009, 182, 137-145.	7.3	51
32	Analysis of estrogenic contaminants in river water using liquid chromatography coupled to ion trap based mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 1358-1364.	1.5	49
33	Influence of the eluent composition on the ionization efficiency for morphine of pneumatically assisted electrospray, atmospheric-pressure chemical ionization and sonic spray. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 1072-1077.	1.5	47
34	Health impact in China of folate-biofortified rice. <i>Nature Biotechnology</i> , 2010, 28, 554-556.	17.5	47
35	Determination of gamma-hydroxybutyric acid in dried blood spots using a simple GC-MS method with direct on-spot-derivatization. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2173-2182.	3.7	45
36	Folate enhancement in staple crops by metabolic engineering. <i>Trends in Food Science and Technology</i> , 2005, 16, 271-281.	15.1	42

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37	A Genome-Wide and Metabolic Analysis Determined the Adaptive Response of Arabidopsis Cells to Folate Depletion Induced by Methotrexate. <i>Plant Physiology</i> , 2008, 148, 2083-2095.	4.8	41
38	Determination of unbound docetaxel and paclitaxel in plasma by ultrafiltration and liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2006, 1108, 195-201.	3.7	39
39	Cytosolic Hydroxymethyl-dihydropterin Pyrophosphokinase/Dihydropteroate Synthase from <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 10749-10761.	3.4	36
40	Sonic Spray Ionization Technology: A Performance Study and Application to a LC/MS Analysis on a Monolithic Silica Column for Heroin Impurity Profiling. <i>Analytical Chemistry</i> , 2002, 74, 3206-3212.	6.5	35
41	Development and validation of a liquid chromatographic method for the simultaneous determination of four anthracyclines and their respective 13-S-dihydro metabolites in plasma and saliva. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 3907-3915.	2.3	33
42	Sonic spray ionization applied to liquid chromatography/mass spectrometry analysis of endocrine-disrupting chemicals in environmental water samples. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 1866-1872.	1.5	32
43	Rice folate enhancement through metabolic engineering has an impact on rice seed metabolism, but does not affect the expression of the endogenous folate biosynthesis genes. <i>Plant Molecular Biology</i> , 2013, 83, 329-349.	3.9	29
44	Determination of Total Folate in Plant Material by Chemical Conversion into para-Aminobenzoic Acid Followed by High Performance Liquid Chromatography Combined with On-Line Postcolumn Derivatization and Fluorescence Detection. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 7872-7878.	5.2	27
45	Free and total para-aminobenzoic acid analysis in plants with high-performance liquid chromatography/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 963-969.	1.5	23
46	A folate independent role for cytosolic HPPK/DHPS upon stress in <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2012, 73, 23-33.	2.9	23
47	Traces of phosgene in chloroform: Consequences for extraction of anthracyclines. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 848, 384-390.	2.3	22
48	A validated ultra-high-performance liquid chromatography-tandem mass spectrometry method for the selective analysis of free and total folate in plasma and red blood cells. <i>Journal of Chromatography A</i> , 2015, 1398, 20-28.	3.7	20
49	Conceptual framework for ex-ante evaluation at the micro/macro level of GM crops with health benefits. <i>Trends in Food Science and Technology</i> , 2014, 39, 116-134.	15.1	19
50	Inhibition of p-Aminobenzoate and Folate Syntheses in Plants and Apicomplexan Parasites by Natural Product Rubreserine. <i>Journal of Biological Chemistry</i> , 2012, 287, 22367-22376.	3.4	18
51	An optimized and validated SPE-LC-MS/MS method for the determination of caffeine and paraxanthine in hair. <i>Talanta</i> , 2015, 144, 62-70.	5.5	18
52	Ex-ante Evaluation of Biotechnology Innovations: the Case of Folate Biofortified Rice in China. <i>Current Pharmaceutical Biotechnology</i> , 2012, 13, 2751-2760.	1.6	17
53	Why Dried Blood Spots Are an Ideal Tool for CYP1A2 Phenotyping. <i>Clinical Pharmacokinetics</i> , 2014, 53, 763-771.	3.5	16
54	CYP1A2 phenotyping in dried blood spots and microvolumes of whole blood and plasma. <i>Bioanalysis</i> , 2014, 6, 3011-3024.	1.5	15

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55	Folates from metabolically engineered rice: A long-term study in rats. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 490-500.	3.3	15
56	Quantitative liquid chromatographic analysis of anthracyclines in biological fluids. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 2471-2486.	2.3	14
57	Folate Profiling in Potato (<i>Solanum tuberosum</i>) Tubers by Ultrahigh-Performance Liquid Chromatography–Tandem Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 3092-3100.	5.2	13
58	Optimization of a liquid chromatographic separation for the simultaneous determination of four anthracyclines and their respective 13 ^C -labeled dihydro metabolites. <i>Journal of Separation Science</i> , 2008, 31, 1042-1049.	2.5	12
59	How negative product attributes alter consumer perceptions of folate biofortified rice in a high risk region of China. <i>International Journal of Biotechnology</i> , 2013, 12, 269.	1.2	12
60	Degradation and interconversion of plant pteridines during sample preparation and ultra-high performance liquid chromatography–tandem mass spectrometry. <i>Food Chemistry</i> , 2016, 194, 1189-1198.	8.2	7
61	Paraxanthine/Caffeine Concentration Ratios in Hair: An Alternative for Plasma-Based Phenotyping of Cytochrome P450 1A2?. <i>Clinical Pharmacokinetics</i> , 2015, 54, 771-781.	3.5	6
62	Determination of four basic pharmaceuticals and one pesticide in surface water with UPLC-ESI-MS/MS. <i>International Journal of Environmental Analytical Chemistry</i> , 2011, 91, 1218-1226.	3.3	5
63	Determination of Five Folate Monoglutamates in Rodent Diets. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 10089-10095.	5.2	1
64	Consumer Acceptance and Willingness-to-Pay for Genetically Modified Foods with Enhanced Vitamin Levels. , 2016, , 195-206.		1
65	Enhanced method performance due to a shorter chromatographic run-time in a liquid chromatography–tandem mass spectrometry assay for paclitaxel. <i>Journal of Chromatography A</i> , 2004, 1041, 235-235.	3.7	0