Jeremy E Melanson

List of Publications by Year
in descending order

54 papers	1,911 citations	218592 26 h-index	254106 43 g-index
54 all docs	54 docs citations	54 times ranked	2558 citing authors

#	Article	IF	Citations
1	Switchable hydrophilicity solvents for lipid extraction from microalgae for biofuel production. Bioresource Technology, 2012, 118, 628-632.	4.8	171
2	Double-Chained Surfactants for Semipermanent Wall Coatings in Capillary Electrophoresis. Analytical Chemistry, 2000, 72, 4110-4114.	3.2	129
3	Dynamic capillary coatings for electroosmotic flow control in capillary electrophoresis. TrAC - Trends in Analytical Chemistry, 2001, 20, 365-374.	5.8	115
4	Triacylglycerol profiling of microalgae strains for biofuel feedstock by liquid chromatographyâ€“high-resolution mass spectrometry. Analytical and Bioanalytical Chemistry, 2011, 401, 2609-2616.	1.9	112
5	Profiling Phlorotannins in Brown Macroalgae by Liquid Chromatographyâ€“High Resolution Mass Spectrometry. Phytochemical Analysis, 2012, 23, 547-553.	1.2	103
6	Screening for multiple classes of marine biotoxins by liquid chromatographyâ€“high-resolution mass spectrometry. Analytical and Bioanalytical Chemistry, 2011, 400, 577-585.	1.9	93
7	Characterization of Surfactant Coatings in Capillary Electrophoresis by Atomic Force Microscopy. Analytical Chemistry, 2001, 73, 4558-4565.	3.2	88
8	Ultra-rapid analysis of nitrate and nitrite by capillary electrophoresis. Journal of Chromatography A, 2000, 884, 311-316.	1.8	85
9	Quantitative analysis of positional isomers of triacylglycerols via electrospray ionization tandem mass spectrometry of sodiated adducts. Rapid Communications in Mass Spectrometry, 2010, 24, 2745-2752.	0.7	78
10	Identification of novel carbohydrate modifications on Campylobacterâ€ƒjejuni 11168 flagellin using metabolomicsâ€based approaches. FEBS Journal, 2009, 276, 1014-1023.	2.2	61
11	Indirect Laser-Induced Fluorescence Detection for Capillary Electrophoresis Using a Violet Diode Laser. Analytical Chemistry, 2001, 73, 1809-1813.	3.2	59
12	High-coverage quantitative proteomics using amine-specific isotopic labeling. Proteomics, 2006, 6, 4466-4474.	1.3	59
13	Suitability of Soxhlet Extraction to Quantify Microalgal Fatty Acids as Determined by Comparison with In Situ Transesterification. Lipids, 2012, 47, 195-207.	0.7	50
14	Establishment of measurement traceability for peptide and protein quantification through rigorous purity assessmentâ€”a review. Metrologia, 2019, 56, 044006.	0.6	43
15	Multifunctional microscope for far-field and tip-enhanced Raman spectroscopy. Review of Scientific Instruments, 2006, 77, 023104.	0.6	41
16	Quantitative determination and validation of 17 cannabinoids in cannabis and hemp using liquid chromatography-tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2020, 412, 7381-7393.	1.9	41
17	The preparation of certified calibration solutions for azaspiracid-1, -2, and -3, potent marine biotoxins found in shellfish. Analytical and Bioanalytical Chemistry, 2010, 398, 2243-2252.	1.9	40
18	Violet (405 nm) diode laser for laser induced fluorescence detection in capillary electrophoresis. Analyst, The, 2000, 125, 1049-1052.	1.7	38

#	Article	IF	Citations
19	High-sensitivity determination of the degradation products of chemical warfare agents by capillary electrophoresisâ€“indirect UV absorbance detection. Journal of Chromatography A, 2001, 920, 359-365.	1.8	35
20	Pilot-scale supercritical carbon dioxide extractions for the recovery of triacylglycerols from microalgae: a practical tool for algal biofuels research. Journal of Applied Phycology, 2012, 24, 547-555.	1.5	35
21	Targeted comparative proteomics by liquid chromatography/matrix-assisted laser desorption/ionization triple-quadrupole mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 904-910.	0.7	33
22	A method for determining regioisomer abundances of polyunsaturated triacylglycerols in omega-3 enriched fish oils using reversed-phase liquid chromatography and triple-stage mass spectrometry. Food Chemistry, 2013, 139, 655-662.	4.2	32
23	Sulfide Oxidations for LC-MS Analysis of Methionine-Containing Microcystins in Dolichospermum flos-aquae NIVA-CYA 656. Environmental Science & Technology, 2014, 48, 13307-13315.	4.6	32
24	Analysis of paralytic shellfish toxins using high-field asymmetric waveform ion mobility spectrometry with liquid chromatography-mass spectrometry. Analytical and Bioanalytical Chemistry, 2015, 407, 2473-2484.	1.9	30
25	Sulfated diesters of okadaic acid and DTX-1: Self-protective precursors of diarrhetic shellfish poisoning (DSP) toxins. Harmful Algae, 2017, 63, 85-93.	2.2	28
26	Purity assignment for peptide certified reference materials by combining qNMR and LC-MS/MS amino acid analysis results: application to angiotensin II. Analytical and Bioanalytical Chemistry, 2018, 410, 6719-6731.	1.9	28
27	Hydroxylation of Longiborneol by a Clm2-Encoded CYP450 Monooxygenase to Produce Culmorin in Fusarium graminearum. Journal of Natural Products, 2016, 79, 81-88.	1.5	26
28	Enhanced detection of porphyrins by capillary electrophoresis-laser induced fluorescence. Electrophoresis, 2002, 23, 1689.	1.3	19
29	Deviation from the mobile proton model in amino-modified peptides: implications for multiple reaction monitoring analysis of peptides. Rapid Communications in Mass Spectrometry, 2006, 20, 1525-1530.	0.7	18
30	Studying the Chemistry of Cationized Triacylglycerols Using Electrospray Ionization Mass Spectrometry and Density Functional Theory Computations. Journal of the American Society for Mass Spectrometry, 2014, 25, 1421-1440.	1.2	16
31	Characterization of Phlorotannins from Brown Algae by LC-HRMS. Methods in Molecular Biology, 2015, 1308, 253-266.	0.4	16
32	Development of Certified Reference Materials for Diarrhetic Shellfish Poisoning Toxins, Part 1: Calibration Solutions. Journal of AOAC INTERNATIONAL, 2016, 99, 1151-1162.	0.7	15
33	Strategic identification of in vitro metabolites of 13â€desmethyl spirolide C using liquid chromatography/highâ€resolution mass spectrometry. Rapid Communications in Mass Spectrometry, 2012, 26, 345-354.	0.7	13
34	In-Source Reduction of Disulfide-Bonded Peptides Monitored by Ion Mobility Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2018, 29, 742-751.	1.2	13
35	Concept paper on SI value assignment of purity - Model for the classification of peptide/protein purity determinations. Journal of Chemical Metrology, 2017, 11, 1-8.	0.6	12
36	Applicability of nonâ€linear versus linear fractional abundance calibration plots for the quantitative determination of triacylglycerol regioisomers by tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 1251-1259.	0.7	11

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37	Survey of peptide quantification methods and comparison of their reproducibility: A case study using oxytocin. Journal of Pharmaceutical and Biomedical Analysis, 2019, 166, 105-112.	1.4	11
38	Noncovalent labeling of myoglobin for capillary electrophoresis with laser-induced fluorescence detection by reconstitution with a fluorescent porphyrin. Electrophoresis, 2004, 25, 3153-3162.	1.3	9
39	Violet Diode Laser for Metal Ion Determination by Capillary Electrophoresis-Laser Induced Fluorescence.. Analytical Sciences, 2001, 17, 225-227.	0.8	8
40	Quantitative Analysis of TAG in Oils Using Lithium Cationization and Directâ€Infusion ESI Tandem Mass Spectrometry. JAOCS, Journal of the American Oil Chemists' Society, 2015, 92, 323-334.	0.8	8
41	Pancreatic lipase inhibitory activity of monogalactosyldiacylglycerols isolated from the freshwater microalga Chlorella sorokiniana. Journal of Applied Phycology, 2016, 28, 169-175.	1.5	7
42	Determination of total dissolved nitrogen in seawater by isotope dilution gas chromatography mass spectrometry following digestion with persulfate and derivatization with aqueous triethyloxonium. Journal of Chromatography A, 2018, 1569, 193-199.	1.8	7
43	Assessing MS-based quantitation strategies for low-level impurities in peptide reference materials: application to angiotensin II. Analytical and Bioanalytical Chemistry, 2018, 410, 6963-6972.	1.9	5
44	Metrologically traceable quantification of trifluoroacetic acid content in peptide reference materials by19F solid-state NMR. Metrologia, 2019, 56, 024002.	0.6	5
45	Rapid quantitative screening of cyanobacteria for production of anatoxins using direct analysis in real time highâ€resolution mass spectrometry. Rapid Communications in Mass Spectrometry, 2021, 35, e8940.	0.7	5
46	Preparation and certification of natural and 82Se-labelled selenomethionine reference materials. Journal of Analytical Atomic Spectrometry, 2021, 36, 416-428.	1.6	5
47	Characterizing Native and Hydrocarbon-Stapled Enfuvirtide Conformations with Ion Mobility Mass Spectrometry and Hydrogenâ€“Deuterium Exchange. Journal of the American Society for Mass Spectrometry, 2021, 32, 753-761.	1.2	5
48	Corona discharge electrospray ionization of formate-containing solutions enables in-source reduction of disulfide bonds. Analytical and Bioanalytical Chemistry, 2019, 411, 4729-4737.	1.9	4
49	Characterization of a SARS-CoV-2 spike protein reference material. Analytical and Bioanalytical Chemistry, 2022, 414, 3561-3569.	1.9	4
50	PAWG Pilot Study on Quantification of SARS-CoV-2 Monoclonal Antibody - Part 1. Metrologia, 2022, 59, 08001.	0.6	4
51	13C-Satellite Decoupling Strategies for Improving Accuracy in Quantitative Nuclear Magnetic Resonance. Analytical Chemistry, 2021, 93, 851-858.	3.2	3
52	Fragmentation Pathways of Cationized, Saturated, Short-Chain Triacylglycerols: Lithiated and Sodiated Tripropanoyl- and Trihexanoylglycerol. Journal of the American Society for Mass Spectrometry, 2020, 31, 34-46.	1.2	2
53	Capillary Electrophoresis in Analysis of Chemicals Related to the Chemical Weapons Convention. , 2006, , 387-401.		1
54	Determination of regioisomers in triacylglycerols. Rapid Communications in Mass Spectrometry, 2021, 35, e8961.	0.7	0