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LC-MS determination of bioactive molecules based upon stable isotope-coded derivatization method

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#	Paper	IF	Citations
65	Stable isotope coded derivatizing reagents as internal standards in metabolite profiling. <i>Journal of Chromatography A</i> , 2013 , 1296, 196-203	4.5	82
64	Synthesis of [¹³ C ₆]primaquine. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2013 , 56, 341-3.9		6
63	Derivatization in LC-MS Bioanalysis. 2013 , 239-248		2
62	Separation and Quantification of Water-Soluble Cellular Metabolites in <i>Clostridium thermocellum</i> using Liquid Chromatography-Isotope Dilution Tandem Mass Spectrometry. <i>Analytical Letters</i> , 2013 , 46, 2767-2786	2.2	8
61	Relative quantification of enantiomers of chiral amines by high-throughput LC-ESI-MS/MS using isotopic variants of light and heavy L-pyroglutamic acids as the derivatization reagents. <i>Analytica Chimica Acta</i> , 2013 , 773, 76-82	6.6	20
60	Evaluation of a microchip electrophoresis-mass spectrometry platform deploying a pressure-driven make-up flow. <i>Journal of Chromatography A</i> , 2013 , 1285, 159-64	4.5	13
59	In situ aqueous derivatization as sample preparation technique for gas chromatographic determinations. <i>Journal of Chromatography A</i> , 2013 , 1296, 70-83	4.5	54
58	Derivatization in liquid chromatography for mass spectrometric detection. <i>Drug Discoveries and Therapeutics</i> , 2013 , 7, 9-17	5	28
57	Development and application of a LC-MS/MS assay for the simultaneous quantification of edaravone and taurine in beagle plasma. <i>Journal of Separation Science</i> , 2013 , 36, 3837-44	3.4	13
56	LC/MS/MS of steroids having vicinal diol as electrospray-active boronates. <i>Chemical and Pharmaceutical Bulletin</i> , 2013 , 61, 326-32	1.9	5
55	Analysis of urinary vitamin D metabolites by liquid chromatography/tandem mass spectrometry with ESI-enhancing and stable isotope-coded derivatization. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 6647-54	4.4	29
54	Quantitative proteomics to study carbapenem resistance in <i>Acinetobacter baumannii</i> . <i>Frontiers in Microbiology</i> , 2014 , 5, 512	5.7	25
53	Enantioselective determination of ibuprofen in saliva by liquid chromatography/tandem mass spectrometry with chiral electrospray ionization-enhancing and stable isotope-coded derivatization. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 98, 387-92	3.5	25
52	Application of screening experimental designs to assess chromatographic isotope effect upon isotope-coded derivatization for quantitative liquid chromatography-mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 7033-40	7.8	23
51	Development of a pair of differential H/D isotope-coded derivatization reagents d(0)/d(3)-4-(1-methyl-1H-phenanthro[9,10-d]imidazol-2-yl)phenylamine and its application for determination of aldehydes in selected aquatic products by liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography B</i> , 2014 , 962, 102-110	6.2	24
50	Isotope-labeled differential profiling of metabolites using N-benzoyloxysuccinimide derivatization coupled to liquid chromatography/high-resolution tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 1632-40	2.2	9
49	Improving detection sensitivity of amino acids in thyroid tissues by using phthalic acid as a mobile phase additive in hydrophilic interaction chromatography-electrospray ionization-tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2015 , 870, 75-82	6.6	33

48	A novel amino acid analysis method using derivatization of multiple functional groups followed by liquid chromatography/tandem mass spectrometry. <i>Analyst, The</i> , 2015 , 140, 1965-73	5	29
47	Quantitative liquid chromatography-electrospray ionization-mass spectrometry analysis of amine-containing metabolites derivatized with cyanuric chloride and methylamine isotopologues. <i>Journal of Chromatography A</i> , 2015 , 1388, 60-8	4.5	14
46	Stable isotope labeling assisted liquid chromatography-electrospray tandem mass spectrometry for quantitative analysis of endogenous gibberellins. <i>Talanta</i> , 2015 , 144, 341-8	6.2	41
45	Quantitative Metabolome Analysis Based on Chromatographic Peak Reconstruction in Chemical Isotope Labeling Liquid Chromatography Mass Spectrometry. <i>Analytical Chemistry</i> , 2015 , 87, 7011-6	7.8	54
44	Chemical derivatization to enhance metabolomic analysis by LC/ESI/MS. 2015 , 6-21		
43	Development of versatile isotopic labeling reagents for profiling the amine submetabolome by liquid chromatography-mass spectrometry. <i>Analytica Chimica Acta</i> , 2015 , 881, 107-16	6.6	17
42	Matrix effect on chemical isotope labeling and its implication in metabolomic sample preparation for quantitative metabolomics. <i>Metabolomics</i> , 2015 , 11, 1733-1742	4.7	16
41	DnsID in MyCompoundID for rapid identification of dansylated amine- and phenol-containing metabolites in LC-MS-based metabolomics. <i>Analytical Chemistry</i> , 2015 , 87, 9838-45	7.8	78
40	Advantages and Pitfalls of Mass Spectrometry Based Metabolome Profiling in Systems Biology. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	98
39	Isotope-coded ESI-enhancing derivatization reagents for differential analysis, quantification and profiling of metabolites in biological samples by LC/MS: A review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 130, 181-193	3.5	49
38	Diagnostic Approach to Disease Using Non-invasive Samples Based on Derivatization and LC-ESI-MS/MS. <i>Biological and Pharmaceutical Bulletin</i> , 2016 , 39, 1397-411	2.3	13
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36	4-Phenylaminomethyl-Benzeneboric Acid Modified Tip Extraction for Determination of Brassinosteroids in Plant Tissues by Stable Isotope Labeling-Liquid Chromatography-Mass Spectrometry. <i>Analytical Chemistry</i> , 2016 , 88, 1286-93	7.8	52
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33	Methods for differential and quantitative analyses of brain neurosteroid levels by LC/MS/MS with ESI-enhancing and isotope-coded derivatization. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 117, 155-62	3.5	12
32	Mass spectrometric based approaches in urine metabolomics and biomarker discovery. <i>Mass Spectrometry Reviews</i> , 2017 , 36, 115-134	11	148
31	Isotope-coded derivatization based LC/ESI-MS/MS methods using a pair of novel reagents for quantification of hydroxycinnamic acids and hydroxybenzoic acids in fermented brown rice product. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 142, 162-170	3.5	9

30	Hydrogen-Isotope Exchange (HIE) Reactions of Secondary and Tertiary Sulfonamides and Sulfonylureas with Iridium(I) Catalysts. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 1418-1424	3.2	31
29	Application of Cookson-type reagents for biomedical HPLC and LC/MS analyses: a brief overview. <i>Biomedical Chromatography</i> , 2017 , 31, e3808	1.7	13
28	Development of a validated LC- MS/MS method for the quantification of 19 endogenous asthma/COPD potential urinary biomarkers. <i>Analytica Chimica Acta</i> , 2017 , 989, 45-58	6.6	19
27	Research Progress in Analysis of Small Molecule Metabolites in Bio-matrices by Stable Isotope Coded Derivatization Combining with Liquid Chromatography Tandem Mass Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , 2017 , 45, 1066-1077	1.6	5
26	Enhanced detection of amino acids in hydrophilic interaction chromatography electrospray tandem mass spectrometry with carboxylic acids as mobile phase additives. <i>European Journal of Mass Spectrometry</i> , 2017 , 23, 98-104	1.1	4
25	The great importance of normalization of LC-MS data for highly-accurate non-targeted metabolomics. <i>Biomedical Chromatography</i> , 2017 , 31, e3864	1.7	33
24	Derivatization-based High-throughput Bioanalysis by LC-MS. <i>Analytical Sciences</i> , 2017 , 33, 555-564	1.7	33
23	Derivatization in liquid chromatography. 2017 , 39-68		1
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21	Deuterium- and Tritium-Labelled Compounds: Applications in the Life Sciences. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1758-1784	16.4	281
20	Novel Isotope-Coded Derivatization Method for Aldehydes Using N/N-Ammonium Acetate and 9,10-Phenanthrenequinone. <i>Analytical Chemistry</i> , 2018 , 90, 13867-13875	7.8	12
19	A Method for Quantification of Tetrahydroglucocorticoid Glucuronides in Human Urine by LC/MS/MS with Isotope-coded Derivatization. <i>Analytical Sciences</i> , 2018 , 34, 1003-1009	1.7	7
18	Synthesis of double- ¹³ C-labeled imidazole derivatives. <i>Tetrahedron Letters</i> , 2018 , 59, 3516-3518	2	10
17	An accurate differential analysis of carboxylic acids in beer using ultra high-performance liquid chromatography-quadrupole time-of-flight mass spectrometry based on chiral derivatization combining three isotopic reagents. <i>Talanta</i> , 2019 , 205, 120146	6.2	12
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