Tatsuya Higashi

List of Publications by Citations

119 papers	2,905 citations	31 h-index	47 g-index
123 ext. papers	3,231 ext. citations	3 avg, IF	5.2 L-index

#	Paper	IF	Citations
119	Derivatization of neutral steroids to enhance their detection characteristics in liquid chromatography-mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2004**, 378, 875-82	4.4	157
118	Gas chromatography and high-performance liquid chromatography of natural steroids. *Journal of Chromatography A*, **2001**, 935, 141-72	4.5	149
117	Simple and practical derivatization procedure for enhanced detection of carboxylic acids in liquid chromatography-electrospray ionization-tandem mass spectrometry. *Journal of Pharmaceutical and Biomedical Analysis*, **2010**, 52, 809-18	3.5	92
116	2-hydrazino-1-methylpyridine: a highly sensitive derivatization reagent for oxosteroids in liquid chromatography-electrospray ionization-mass spectrometry. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2005**, 825, 214-22	3.2	87
115	Liquid chromatography-tandem mass spectrometric method for the determination of salivary 25-hydroxyvitamin D3: a noninvasive tool for the assessment of vitamin D status. *Analytical and Bioanalytical Chemistry*, **2008**, 391, 229-38	4.4	82
114	Advances in determination of vitamin D related compounds in biological samples using liquid chromatography-mass spectrometry: a review. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2010**, 878, 1654-61	3.2	76
113	Simultaneous determination of 25-hydroxyvitamin D2 and 25-hydroxyvitamin D3 in human plasma by liquid chromatography-tandem mass spectrometry employing derivatization with a Cookson-type reagent. *Biological and Pharmaceutical Bulletin*, **2001**, 24, 738-43	2.3	68
112	Chemical derivatization for enhancing sensitivity during LC/ESI-MS/MS quantification of steroids in biological samples: a review. *Journal of Steroid Biochemistry and Molecular Biology*, **2016**, 162, 57-69	5.1	58
111	A specific LC/ESI-MS/MS method for determination of 25-hydroxyvitamin D3 in neonatal dried blood spots containing a potential interfering metabolite, 3-epi-25-hydroxyvitamin D3. *Journal of Separation Science*, **2011**, 34, 725-32	3.4	58
110	Studies on neurosteroids XXV. Influence of a 5alpha-reductase inhibitor, finasteride, on rat brain neurosteroid levels and metabolism. *Biological and Pharmaceutical Bulletin*, **2008**, 31, 1646-50	2.3	58
109	Studies on neurosteroids XVII. Analysis of stress-induced changes in neurosteroid levels in rat brains using liquid chromatography-electron capture atmospheric pressure chemical ionization-mass spectrometry. *Steroids*, **2005**, 70, 1-11	2.8	58
108	Simultaneous determination of salivary testosterone and dehydroepiandrosterone using LC-MS/MS: Method development and evaluation of applicability for diagnosis and medication for late-onset hypogonadism. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2009**, 877, 2615-23	3.2	57
107	Alternative procedure for charged derivatization to enhance detection responses of steroids in electrospray ionization-MS. *Chemical and Pharmaceutical Bulletin*, **2007**, 55, 662-5	1.9	49
106	Isotope-coded ESI-enhancing derivatization reagents for differential analysis, quantification and profiling of metabolites in biological samples by LC/MS: A review. *Journal of Pharmaceutical and Biomedical Analysis*, **2016**, 130, 181-193	3.5	49
105	Development and application of electrospray-active derivatization reagents for hydroxysteroids. *Journal of Pharmaceutical and Biomedical Analysis*, **2007**, 44, 786-95	3.5	48
104	Determination of prostatic androgens in 10 mg of tissue using liquid chromatography-tandem mass spectrometry with charged derivatization. *Analytical and Bioanalytical Chemistry*, **2005**, 382, 1035-43	4.4	48
103	Simultaneous determination of 17alpha-hydroxypregnenolone and 17alpha-hydroxyprogesterone in dried blood spots from low birth weight infants using LC-MS/MS. *Journal of Pharmaceutical and Biomedical Analysis*, **2008**, 48, 177-82	3.5	47

102	Electron-capturing derivatization of neutral steroids for increasing sensitivity in liquid chromatography/negative atmospheric pressure chemical ionization-mass spectrometry. *Analytical Sciences*, **2002**, 18, 1301-7	1.7	47
101	Determination of salivary dehydroepiandrosterone using liquid chromatography--tandem mass spectrometry combined with charged derivatization. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2007**, 846, 195-201	3.2	46
100	Biomarker discovery in biological specimens (plasma, hair, liver and kidney) of diabetic mice based upon metabolite profiling using ultra-performance liquid chromatography with electrospray ionization time-of-flight mass spectrometry. *Clinica Chimica Acta*, **2011**, 412, 861-72	6.2	42
99	A novel Cookson-type reagent for enhancing sensitivity and specificity in assessment of infant vitamin D status using liquid chromatography/tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2013**, 27, 2453-60	2.2	41
98	Studies on neurosteroids XIX. Development and validation of liquid chromatography-tandem mass spectrometric method for determination of 5alpha-reduced pregnane-type neurosteroids in rat brain and serum. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2007**, 848, 188-99	3.2	40
97	Determination of DL-amino acids, derivatized with R(-)-4-(3-isothiocyanatopyrrolidin-1-yl)-7-(N,N-dimethylaminosulfonyl)-2,1,3-benzoxadiazole, in nail of diabetic patients by UPLC-ESI-TOF-MS. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2011**, 879, 3220-8	3.2	39
96	Unconjugated bile acids in rat brain: Analytical method based on LC/ESI-MS/MS with chemical derivatization and estimation of their origin by comparison to serum levels. *Steroids*, **2017**, 125, 107-113	2.8	38
95	Studies on neurosteroids XVI. Levels of pregnenolone sulfate in rat brains determined by enzyme-linked immunosorbent assay not requiring solvolysis. *Biological and Pharmaceutical Bulletin*, **2003**, 26, 709-11	2.3	38
94	Highly sensitive and positively charged precolumn derivatization reagent for amines and amino acids in liquid chromatography/electrospray ionization tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2010**, 24, 1358-64	2.2	36
93	Determination of 24,25-dihydroxyvitamin D(3) in human plasma using liquid chromatography-mass spectrometry after derivatization with a Cookson-type reagent. *Biomedical Chromatography*, **2001**, 15, 133-40	1.7	36
92	Formation of cholesterol ozonolysis products in vitro and in vivo through a myeloperoxidase-dependent pathway. *Journal of Lipid Research*, **2011**, 52, 87-97	6.3	35
91	Practical analytical approach for the identification of biomarker candidates in prediabetic state based upon metabonomic study by ultraperformance liquid chromatography coupled to electrospray ionization time-of-flight mass spectrometry. *Journal of Proteome Research*, **2010**, 9, 3912-22	5.6	34
90	Liquid chromatography-tandem mass spectrometric method for determination of salivary 17alpha-hydroxyprogesterone: a noninvasive tool for evaluating efficacy of hormone replacement therapy in congenital adrenal hyperplasia. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2008**, 867, 49-56	3.2	32
89	Trace determination of steroids causing age-related diseases using LC/MS combined with detection-oriented derivatization. *Chemical and Pharmaceutical Bulletin*, **2006**, 54, 1479-85	1.9	31
88	Characterization of urinary metabolites of vitamin D(3) in man under physiological conditions using liquid chromatography-tandem mass spectrometry. *Journal of Pharmaceutical and Biomedical Analysis*, **2002**, 29, 947-55	3.5	31
87	Detection and characterization of 20-oxosteroids in rat brains using LC-electron capture APCI-MS after derivatization with 2-nitro-4-trifluoromethylphenylhydrazine. *Analyst, The*, **2003**, 128, 130-3	5	31
86	Development and validation of the simultaneous measurement of four vitamin D metabolites in serum by LC-MS/MS for clinical laboratory applications. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 7617-7627	4.4	30
85	Salivary hormone measurement using LC/MS/MS: specific and patient-friendly tool for assessment of endocrine function. *Biological and Pharmaceutical Bulletin*, **2012**, 35, 1401-8	2.3	30

84	Procedure for increasing the detection responses of estrogens in LC-MS based on introduction of a nitrobenzene moiety followed by electron capture atmospheric pressure chemical ionization. *Analytical and Bioanalytical Chemistry*, **2006**, 386, 658-65	4.4	30
83	Application of 4-(4-nitrophenyl)-1,2,4-triazoline-3,5-dione to analysis of 25-hydroxyvitamin D3 in human plasma by liquid chromatography/electron capture atmospheric pressure chemical ionization-mass spectrometry. *Analytical Sciences*, **2003**, 19, 941-3	1.7	30
82	Studies on neurosteroids XV. Development of enzyme-linked immunosorbent assay for examining whether pregnenolone sulfate is a veritable neurosteroid. *Journal of Pharmaceutical and Biomedical Analysis*, **2003**, 30, 1907-17	3.5	30
81	Analysis of urinary vitamin D metabolites by liquid chromatography/tandem mass spectrometry with ESI-enhancing and stable isotope-coded derivatization. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 6647-54	4.4	29
80	Tandem Mass Spectrometry Imaging Reveals Distinct Accumulation Patterns of Steroid Structural Isomers in Human Adrenal Glands. *Analytical Chemistry*, **2019**, 91, 8918-8925	7.8	27
79	Studies on neurosteroids XVIII LC-MS analysis of changes in rat brain and serum testosterone levels induced by immobilization stress and ethanol administration. *Steroids*, **2006**, 71, 609-17	2.8	27
78	(S)-1-(4-Dimethylaminophenylcarbonyl)-3-aminopyrrolidine: a derivatization reagent for enantiomeric separation and sensitive detection of chiral carboxylic acids by LC/ESI-MS/MS. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2013**, 940, 7-14	3.2	26
77	Salivary chenodeoxycholic acid and its glycine-conjugate: their determination method using LC-MS/MS and variation of their concentrations with increased saliva flow rate. *Steroids*, **2010**, 75, 338-45	2.8	26
76	Enantioselective determination of ibuprofen in saliva by liquid chromatography/tandem mass spectrometry with chiral electrospray ionization-enhancing and stable isotope-coded derivatization. *Journal of Pharmaceutical and Biomedical Analysis*, **2014**, 98, 387-92	3.5	25
75	Development and validation of a method for determination of plasma 25-hydroxyvitamin D3 3-sulfate using liquid chromatography/tandem mass spectrometry. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2014**, 969, 230-4	3.2	25
74	Simultaneous determination of polyamines in human nail as 4-(N,N-dimethylaminosulfonyl)-7-fluoro-2,1,3-benzoxadiazole derivatives by nano-flow chip LC coupled with quadrupole time-of-flight tandem mass spectrometry. *Clinica Chimica Acta*, **2011**, 412, 98-106	6.2	25
73	First detection of free D-amino acids in human nails by combination of derivatization and UPLC-ESI-TOF-MS. *Analytical Methods*, **2010**, 2, 1233	3.2	23
72	Aldosterone and 18-Oxocortisol Coaccumulation in Aldosterone-Producing Lesions. *Hypertension*, **2018**, 72, 1345-1354	8.5	23
71	Liquid chromatography-mass spectrometric assay of androstenediol in prostatic tissue: influence of androgen deprivation therapy on its level. *Steroids*, **2006**, 71, 1007-13	2.8	22
70	Applications of MALDI mass spectrometry imaging for pharmacokinetic studies during drug development. *Drug Metabolism and Pharmacokinetics*, **2019**, 34, 209-216	2.2	20
69	LC/ESI-MS/MS method for determination of salivary eicosapentaenoic acid concentration to arachidonic acid concentration ratio. *Biomedical Chromatography*, **2016**, 30, 29-34	1.7	20
68	Studies on neurosteroids XXVI. Fluoxetine-evoked changes in rat brain and serum levels of neuroactive androgen, 5 alpha-androstane-3 alpha,17 beta-diol. *Biological and Pharmaceutical Bulletin*, **2009**, 32, 1636-8	2.3	20
67	Characterization of new conjugated metabolites in bile of rats administered 24,25-dihydroxyvitamin D(3) and 25-hydroxyvitamin D(3). *Steroids*, **2000**, 65, 281-94	2.8	20

66	New metabolic pathway of (24R)-24,25-dihydroxyvitamin D3: epimerization of the 3-hydroxy group. *Biological and Pharmaceutical Bulletin*, **1999**, 22, 767-9	2.3	20
65	Derivatization of chiral carboxylic acids with (S)-anabasine for increasing detectability and enantiomeric separation in LC/ESI-MS/MS. *Journal of Separation Science*, **2012**, 35, 2840-6	3.4	19
64	Studies on neurosteroids XIV. Levels of dehydroepiandrosterone sulfate in rat brain and serum determined with newly developed enzyme-linked immunosorbent assay. *Steroids*, **2001**, 66, 865-74	2.8	19
63	High performance liquid chromatography analysis of 100-nm liposomal nanoparticles using polymer-coated, silica monolithic columns with aqueous mobile phase. *Journal of Chromatography A*, **2017**, 1484, 34-40	4.5	18
62	Usefulness of Derivatization in High-Performance Liquid Chromatography/Tandem Mass Spectrometry of Conjugated Vitamin D Metabolites.. *Analytical Sciences*, **1999**, 15, 619-623	1.7	18
61	Occurrence of cytotoxic 9-oxononanoyl secosterol aldehydes in human low-density lipoprotein. *Free Radical Biology and Medicine*, **2013**, 60, 73-9	7.8	16
60	Rapid and sensitive determination of the intermediates of advanced glycation end products in the human nail by ultra-performance liquid chromatography with electrospray ionization time-of-flight mass spectrometry. *Analytical Biochemistry*, **2012**, 424, 187-94	3.1	16
59	Liquid chromatography--mass spectrometric method combined with derivatization for determination of 1 alpha-hydroxyvitamin D(3) in human plasma. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2002**, 772, 229-38	3.2	16
58	Screening DNA Adducts by LC-ESI-MS/MS: Application to Screening New Adducts Formed from Acrylamide. *Chromatographia*, **2010**, 72, 1043-1048	2.1	15
57	Determination of salivary 17-ketosteroid sulfates using liquid chromatography-electrospray ionization-mass spectrometry. *Journal of Pharmaceutical and Biomedical Analysis*, **2007**, 43, 1782-8	3.5	15
56	Stable isotope-dilution liquid chromatography/tandem mass spectrometry method for determination of thyroxine in saliva. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2011**, 879, 1013-7	3.2	14
55	Studies on Neurosteroids XXI: an improved liquid chromatography-tandem mass spectrometric method for determination of 5alpha-androstane-3alpha,17beta-diol in rat brains. *Analytical Sciences*, **2007**, 23, 1015-9	1.7	14
54	Analysis of C-3 epimerization in (24R)-24,25-dihydroxyvitamin D3 catalyzed by hydroxysteroid dehydrogenase. *Journal of Pharmaceutical and Biomedical Analysis*, **2004**, 36, 429-36	3.5	14
53	Enzymic conversion of 3beta-hydroxy-5-ene-steroids and their sulfates to 3-oxo-4-ene-steroids for increasing sensitivity in LC-APCI-MS. *Journal of Pharmaceutical and Biomedical Analysis*, **2005**, 39, 718-23	3.5	14
52	Methods for determination of fingernail steroids by LC/MS/MS and differences in their contents between right and left hands. *Steroids*, **2016**, 109, 60-5	2.8	14
51	Application of Cookson-type reagents for biomedical HPLC and LC/MS analyses: a brief overview. *Biomedical Chromatography*, **2017**, 31, e3808	1.7	13
50	A method for determination of aldosterone in adrenal tributary venous serum by derivatization using Girard P reagent isotopologues followed by LC/ESI-MS/MS. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2018**, 1092, 106-113	3.2	13
49	Rapid Analysis of DOXIL Stability and Drug Release from DOXIL by HPLC Using a Glycidyl Methacrylate-Coated Monolithic Column. *Chemical and Pharmaceutical Bulletin*, **2017**, 65, 945-949	1.9	13

48	Investigation of C-3 Epimerization Mechanism of 24, 25-Dihydroxyvitamin D3 in Rat Using Liquid Chromatography/Mass Spectrometry.. *Analytical Sciences*, **2000**, 16, 477-482	1.7	13
47	Methods for differential and quantitative analyses of brain neurosteroid levels by LC/MS/MS with ESI-enhancing and isotope-coded derivatization. *Journal of Pharmaceutical and Biomedical Analysis*, **2016**, 117, 155-62	3.5	12
46	Role of allopregnanolone biosynthesis in acute stress-induced anxiety-like behaviors in mice. *Synapse*, **2017**, 71, e21978	2.4	12
45	Comparison of the migration behavior of nanoparticles based on polyethylene glycol and silica using micellar electrokinetic chromatography. *Journal of Separation Science*, **2015**, 38, 468-74	3.4	11
44	A highly sensitive LC-ESI-MS/MS method for the quantification of cholesterol ozonolysis products secosterol-A and secosterol-B after derivatization with 2-hydrazino-1-methylpyridine. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2011**, 879, 2802-8	3.2	11
43	Studies on neurosteroids XX. Liquid chromatography-tandem mass spectrometric method for simultaneous determination of testosterone and 5alpha-dihydrotestosterone in rat brain and serum. *Journal of Chromatographic Science*, **2008**, 46, 653-8	1.4	10
42	Studies on neurosteroids XXIV. Determination of neuroactive androgens, androsterone and 5alpha-androstane-3alpha,17beta-diol, in rat brain and serum using liquid chromatography-tandem mass spectrometry. *Biomedical Chromatography*, **2008**, 22, 1434-41	1.7	10
41	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. *Journal of Pharmaceutical and Biomedical Analysis*, **2017**, 142, 162-170	3.5	9
40	Influence of saliva flow rate stimulated by gum-chewing on salivary concentrations of catecholamine metabolites. *Clinica Chimica Acta*, **2012**, 414, 248-52	6.2	9
39	Diels-Alder derivatization for sensitive detection and characterization of conjugated linoleic acids using LC/ESI-MS/MS. *Analytical and Bioanalytical Chemistry*, **2012**, 403, 495-502	4.4	9
38	Enhancing analysis throughput, sensitivity and specificity in LC/ESI-MS/MS assay of plasma 25-hydroxyvitamin D by derivatization with triplex 4-(4-dimethylaminophenyl)-1,2,4-triazoline-3,5-dione (DAPTAD) isotopologues. *Journal of Pharmaceutical and Biomedical Analysis*, **2017**, 136, 126-133	3.5	8
37	A Method for Simultaneous Determination of 25-Hydroxyvitamin D3 and Its 3-Sulfate in Newborn Plasma by LC/ESI-MS/MS after Derivatization with a Proton-Affinitive Cookson-Type Reagent. *Mass Spectrometry*, **2016**, 5, S0051	1.7	8
36	A Method for Quantification of Tetrahydroglucocorticoid Glucuronides in Human Urine by LC/MS/MS with Isotope-coded Derivatization. *Analytical Sciences*, **2018**, 34, 1003-1009	1.7	7
35	An efficient synthesis of 7α,12α-dihydroxy-4-cholesten-3-one and its biological precursor 7α-hydroxy-4-cholesten-3-one: Key intermediates in bile acid biosynthesis. *Steroids*, **2013**, 78, 927-37	2.8	7
34	Development and validation of stable-isotope dilution liquid chromatography-tandem mass spectrometric method for determination of salivary progesterone. *Biomedical Chromatography*, **2011**, 25, 1175-80	1.7	7
33	HPLC enantioseparation of α,α-diphenyl-2-pyrrolidinemethanol and methylphenidate using a chiral fluorescent derivatization reagent and its application to the analysis of rat plasma. *Journal of Separation Science*, **2010**, 33, 3137-43	3.4	7
32	Specificity of polyclonal antibodies raised against a novel 24,25-dihydroxyvitamin D3-bovine serum albumin conjugant linked through the C-11alpha or C-3 position. *Journal of Steroid Biochemistry and Molecular Biology*, **1997**, 62, 79-87	5.1	7
31	Enzyme-linked immunosorbent assay for plasma 24,25-dihydroxyvitamin D3. *Analytica Chimica Acta*, **1998**, 365, 151-158	6.6	7

30	Studies on neurosteroids XXII. Liquid chromatography-tandem mass spectrometric method for profiling rat brain 3-oxo-4-ene-neuroactive steroids. *Biomedical Chromatography*, **2008**, 22, 34-43	1.7	7
29	Studies on neurosteroids XXIII. Analysis of tetrahydrocorticosterone isomers in the brain of rats exposed to immobilization using LC-MS. *Steroids*, **2007**, 72, 865-74	2.8	7
28	Comparative evaluation of new Cookson-type reagents for LC/ESI-MS/MS assay of 25-hydroxyvitamin D3 in neonatal blood samples. *Biomedical Chromatography*, **2016**, 30, 938-45	1.7	7
27	Changes in Polyamine Content in Rice Bran due to Fermentation with Aspergillus oryzae Analyzed by LC/ESI-MS/MS Combined with Derivatization. *Analytical Sciences*, **2019**, 35, 427-432	1.7	7
26	Overestimation of salivary 25-hydroxyvitamin D3 level when using stimulated saliva with gum-chewing. *Steroids*, **2013**, 78, 884-7	2.8	6
25	Improved sensitivity of serum/plasma 1,25-dihydroxyvitamin D quantification by DAPTAD derivatization. *Clinica Chimica Acta*, **2017**, 473, 173-179	6.2	6
24	Simultaneous and group determination methods for designated substances by HPLC with multi-channel electrochemical detection and their application to real samples. *Biomedical Chromatography*, **2010**, 24, 1287-99	1.7	6
23	Synthesis of (24R)-11-(4-carboxybutyryloxy)-24,25-dihydroxyvitamin D3: a novel haptenic derivative producing antibodies of high affinity for (24R)-24,25-dihydroxyvitamin D3. *Journal of the Chemical Society Perkin Transactions 1*, **1994**, 269-275		6
22	Quantification of ergothioneine in Aspergillus oryzae-fermented rice bran by a newly-developed LC/ESI-MS/MS method. *LWT - Food Science and Technology*, **2020**, 118, 108812	5.4	6
21	Derivatization-based sample-multiplexing for enhancing throughput in liquid chromatography/tandem mass spectrometry quantification of metabolites: an overview. *Journal of Chromatography A*, **2020**, 1634, 461679	4.5	6
20	Sample-multiplexing by derivatization using multiple analogous reagents for enhancing throughput in LC/ESI-MS/MS assay of steroids: Plasma 17-hydroxyprogesterone as an example. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2020**, 1146, 122117	3.2	5
19	Enhancing LC/ESI-MS/MS Throughput for Plasma Bile Acid Assay by Derivatization-based Sample-Multiplexing. *Analytical Sciences*, **2020**, 36, 1099-1104	1.7	5
18	LC/MS/MS of steroids having vicinal diol as electrospray-active boronates. *Chemical and Pharmaceutical Bulletin*, **2013**, 61, 326-32	1.9	5
17	Analysis of steryl glucosides in rice bran-based fermented food by LC/ESI-MS/MS. *Steroids*, **2020**, 158, 108605	2.8	4
16	Identification of conjugation positions of urinary glucuronidated vitamin D metabolites by LC/ESI-MS/MS after conversion to MS/MS-fragmentable derivatives. *Biomedical Chromatography*, **2019**, 33, e4538	1.7	3
15	Rapid enantiomeric separation and simultaneous determination of phenethylamines by ultra high performance liquid chromatography with fluorescence and mass spectrometric detection: application to the analysis of illicit drugs distributed in the Japanese market and biological samples.	3.5	3
14	Development of novel active acceptors possessing a positively charged structure for the transglycosylation reaction with Endo-M and their application to oligosaccharide analysis. *Rapid Communications in Mass Spectrometry*, **2011**, 25, 2911-22	2.2	3
13	High-performance liquid chromatography/mass spectrometry of vitamin D compounds employing derivatization with Cookson-type reagents.. *Bunseki Kagaku*, **2002**, 51, 487-493	0.2	3

12	Determination of Vitamin D3 Metabolites Using High-Performance Liquid Chromatography or Immunoaffinity Chromatography. *Journal of the Chinese Chemical Society*, **2000**, 47, 285-289	1.5	3
11	(S)-1-(1-Methylpyridin-2-yl)-3-aminopiperidine as a novel derivatization reagent capable of enantiomeric separation and enhanced ESI-MS/MS detection for chiral carboxylic acids. *Microchemical Journal*, **2019**, 146, 25-33	4.8	3
10	Quantitative MALDI-MS/MS assay for serum cortisol through charged derivatization. *Journal of Pharmaceutical and Biomedical Analysis*, **2020**, 178, 112912	3.5	3
9	A method for determination of aldosterone concentrations of six adrenal venous serum samples during a single LC/ESI-MS/MS run using a sextet of Girard reagents. *Journal of Pharmaceutical and Biomedical Analysis*, **2022**, 207, 114423	3.5	2
8	3-Epi-25-hydroxyvitamin D is a poor substrate for SULT2A1: Analysis of its 3-sulfate in cord plasma and recombinant human SULT2A1 incubate. *Steroids*, **2020**, 162, 108695	2.8	2
7	Derivatization-based quadruplex LC/ESI-MS/MS method for high throughput quantification of serum dehydroepiandrosterone sulfate. *Biomedical Chromatography*, **2021**, 35, e5027	1.7	2
6	Stereoselective synthesis and NMR characterization of C-24 epimeric pairs of 24-alkyl oxysterols. *Lipids*, **2013**, 48, 197-207	1.6	1
5	High-performance liquid chromatography/electron capture atmospheric pressure chemical ionization-mass spectrometric determination of biologically active steroids. *Bunseki Kagaku*, **2004**, 53, 645-655	0.2	1
4	Controlled lipid □oxidation and carnitine biosynthesis by a vitamin D metabolite. *Cell Chemical Biology*, **2021**,	8.2	1
3	Benzothiazepines, diltiazem and JTV-519, exert an anxiolytic-like effect via neurosteroid biosynthesis in mice. *Journal of Pharmacological Sciences*, **2020**, 143, 234-237	3.7	0
2	Substrate Specificity for Enzymic Glucuronidation of 24R,25-Dihydroxyvitamin D3 and Related Compounds.. *Analytical Sciences*, **1999**, 15, 705-708	1.7	
1	23,25-Dihydroxyvitamin D3 is liberated as a major vitamin D3 metabolite in human urine after treatment with □glucuronidase: Quantitative comparison with 24,25-dihydroxyvitamin D3 by LC/MS/MS. *Journal of Steroid Biochemistry and Molecular Biology*, **2022**, 223, 106133	5.1	