Kenichiro Todoroki

List of Publications by Citations

64 papers	895 citations	20 h-index	27 g-index
65 ext. papers	1,061 ext. citations	4 avg, IF	4.11 L-index

#	Paper	IF	Citations
64	Diagnostic approach to breast cancer patients based on target metabolomics in saliva by liquid chromatography with tandem mass spectrometry. *Clinica Chimica Acta*, **2016**, 452, 18-26	6.2	54
63	Human nails metabolite analysis: A rapid and simple method for quantification of uric acid in human fingernail by high-performance liquid chromatography with UV-detection. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2015**, 1002, 394-8	3.2	50
62	Towards the chiral metabolomics: Liquid chromatography-mass spectrometry based DL-amino acid analysis after labeling with a new chiral reagent, (S)-2,5-dioxopyrrolidin-1-yl-1-(4,6-dimethoxy-1,3,5-triazin-2-yl)pyrrolidine-2-carboxylate, and the application to saliva of healthy volunteers. *Analytica Chimica Acta*, **2015**, 875, 72-82	6.6	41
61	Isotopic variants of light and heavy L-pyroglutamic acid succinimidyl esters as the derivatization reagents for DL-amino acid chiral metabolomics identification by liquid chromatography and electrospray ionization mass spectrometry. *Analytica Chimica Acta*, **2014**, 811, 51-9	6.6	40
60	Metabolomics approach of infant formula for the evaluation of contamination and degradation using hydrophilic interaction liquid chromatography coupled with mass spectrometry. *Food Chemistry*, **2015**, 181, 318-24	8.5	38
59	Dried Saliva Spot (DSS) as a Convenient and Reliable Sampling for Bioanalysis: An Application for the Diagnosis of Diabetes Mellitus. *Analytical Chemistry*, **2016**, 88, 635-9	7.8	36
58	Novel chiral derivatization reagents possessing a pyridylthiourea structure for enantiospecific determination of amines and carboxylic acids in high-throughput liquid chromatography and electrospray-ionization mass spectrometry for chiral metabolomics identification. *Journal of Chromatography A*, **2016**, 1426, 144-9	4.5	36
57	Profiling of chiral and achiral carboxylic acid metabolomics: synthesis and evaluation of triazine-type chiral derivatization reagents for carboxylic acids by LC-ESI-MS/MS and the application to saliva of healthy volunteers and diabetic patients. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 1003-14	4.4	34
56	A novel approach for LC-MS/MS-based chiral metabolomics fingerprinting and chiral metabolomics extraction using a pair of enantiomers of chiral derivatization reagents. *Analytica Chimica Acta*, **2015**, 898, 73-84	6.6	33
55	The great importance of normalization of LC-MS data for highly-accurate non-targeted metabolomics. *Biomedical Chromatography*, **2017**, 31, e3864	1.7	33
54	Simultaneous microdetermination of bosentan, ambrisentan, sildenafil, and tadalafil in plasma using liquid chromatography/tandem mass spectrometry for pediatric patients with pulmonary arterial hypertension. *Journal of Pharmaceutical and Biomedical Analysis*, **2014**, 89, 227-32	3.5	32
53	Simultaneous and rapid determination of gefitinib, erlotinib and afatinib plasma levels using liquid chromatography/tandem mass spectrometry in patients with non-small-cell lung cancer. *Biomedical Chromatography*, **2016**, 30, 1150-1154	1.7	28
52	Stable isotope dilution HILIC-MS/MS method for accurate quantification of glutamic acid, glutamine, pyroglutamic acid, GABA and theanine in mouse brain tissues. *Biomedical Chromatography*, **2016**, 30, 55-61	1.7	25
51	Bioanalysis of bevacizumab and infliximab by high-temperature reversed-phase liquid chromatography with fluorescence detection after immunoaffinity magnetic purification. *Analytica Chimica Acta*, **2016**, 916, 112-9	6.6	25
50	Critical role of endogenous histamine in promoting end-organ tissue injury in sepsis. *Intensive Care Medicine Experimental*, **2016**, 4, 36	3.7	22
49	Bioanalytical methods for therapeutic monoclonal antibodies and antibody-drug conjugates: A review of recent advances and future perspectives. *Journal of Pharmaceutical and Biomedical Analysis*, **2020**, 179, 112991	3.5	21
48	Determination of dicyandiamide in infant formula by stable isotope dilution hydrophilic interaction liquid chromatography with tandem mass spectrometry. *Food Chemistry*, **2014**, 156, 390-3	8.5	20

47	Determination of acetone in saliva by reversed-phase liquid chromatography with fluorescence detection and the monitoring of diabetes mellitus patients with ketoacidosis. *Clinica Chimica Acta*, **2014**, 430, 140-4	6.2	20
46	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. *Analytica Chimica Acta*, **2013**, 773, 76-82	6.6	20
45	In vivo imaging of reactive oxygen species in mouse brain by using [3H]hydromethidine as a potential radical trapping radiotracer. *Journal of Cerebral Blood Flow and Metabolism*, **2014**, 34, 1907-13	7.3	20
44	Current Mass Spectrometric Tools for the Bioanalyses of Therapeutic Monoclonal Antibodies and Antibody-Drug Conjugates. *Analytical Sciences*, **2018**, 34, 397-406	1.7	19
43	Isotope Corrected Chiral and Achiral Nontargeted Metabolomics: An Approach for High Accuracy and Precision Metabolomics Based on Derivatization and Its Application to Cerebrospinal Fluid of Patients with Alzheimer's Disease. *Analytical Chemistry*, **2019**, 91, 4396-4404	7.8	16
42	Simple and sensitive analysis of histamine and tyramine in Japanese soy sauces and their intermediates using the stable isotope dilution HILIC-MS/MS method. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 6206-11	5.7	15
41	Principal component analysis of molecularly based signals from infant formula contaminations using LC-MS and NMR in foodomics. *Journal of the Science of Food and Agriculture*, **2016**, 96, 3876-81	4.3	14
40	F-Labeled dihydromethidine: positron emission tomography radiotracer for imaging of reactive oxygen species in intact brain. *Organic and Biomolecular Chemistry*, **2020**, 18, 2387-2391	3.9	13
39	Caffeine Suppresses the Activation of Hepatic Stellate Cells cAMP-Independently by Antagonizing Adenosine Receptors. *Biological and Pharmaceutical Bulletin*, **2017**, 40, 658-664	2.3	13
38	High-Throughput Bioanalysis of Bevacizumab in Human Plasma Based on Enzyme-Linked Aptamer Assay Using Anti-Idiotype DNA Aptamer. *Analytical Chemistry*, **2019**, 91, 3125-3130	7.8	12
37	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. *Talanta*, **2019**, 205, 120146	6.2	12
36	Fully automated reagent peak-free liquid chromatography fluorescence analysis of highly polar carboxylic acids using a column-switching system and fluorous scavenging derivatization. *Journal of Separation Science*, **2013**, 36, 232-8	3.4	12
35	Uric acid quantification in fingernail of gout patients and healthy volunteers using HPLC-UV. *Biomedical Chromatography*, **2016**, 30, 1338-42	1.7	10
34	A novel, simplified strategy of relative quantification N-glycan: Quantitative glycomics using electrospray ionization mass spectrometry through the stable isotopic labeling by transglycosylation reaction of mutant enzyme Endo-M-N175Q. *Journal of Pharmaceutical and Biomedical Analysis*, **2018**, 149, 365-373	3.5	10
33	High Sensitivity and Precision High-Temperature Reversed-Phase LC Analysis of Bevacizumab for Intact Bioanalysis of Therapeutic Monoclonal Antibodies. *Chromatography*, **2018**, 39, 21-26	1.2	10
32	Highly sensitive derivatization reagents possessing positively charged structures for the determination of oligosaccharides in glycoproteins by high-performance liquid chromatography electrospray ionization tandem mass spectrometry. *Journal of Chromatography A*, **2016**, 1465, 79-89	4.5	9
31	Anti-Idiotype DNA Aptamer Affinity Purification?High-Temperature Reversed-Phase Liquid Chromatography: A Simple, Accurate, and Selective Bioanalysis of Bevacizumab. *Molecules*, **2019**, 24,	4.8	8
30	An easy-to-use excimer fluorescence derivatization reagent, 2-chloro-4-methoxy-6-(4-(pyren-4-yl)butoxy)-1,3,5-triazine, for use in the highly sensitive and selective liquid chromatography analysis of histamine in Japanese soy sauces. *Analytica Chimica Acta*, **2015**, 880, 145-51	6.6	7

29	Rapid and sensitive determination of diacetylpolyamines in human fingernail by ultraperformance liquid chromatography coupled with electrospray ionization tandem mass spectrometry. *European Journal of Mass Spectrometry*, **2014**, 20, 477-86	1.1	6
28	Advanced dress-up chiral columns: New removable chiral stationary phases for enantioseparation of chiral carboxylic acids. *Analytica Chimica Acta*, **2015**, 882, 101-11	6.6	6
27	A Simple Ex Vivo Semiquantitative Fluorescent Imaging Utilizing Planar Laser Scanner: Detection of Reactive Oxygen Species Generation in Mouse Brain and Kidney. *Molecular Imaging*, **2019**, 18, 1536012118820421	3.7	5
26	4-(4,6-Dimethoxy-1,3,5-triazin-2-yl)-4-methylmorpholinium chloride as an enantioseparation enhancer for fluorescence chiral derivatization-liquid chromatographic analysis of dl-lactic acid. *Journal of Chromatography A*, **2014**, 1360, 188-95	4.5	5
25	In-Source Fragmentation of Phenethylamines by Electrospray Ionization Mass Spectrometry: Toward Highly Sensitive Quantitative Analysis of Monoamine Neurotransmitters. *Analytical Chemistry*, **2020**, 92, 12033-12039	7.8	5
24	Simultaneous optimization of pH and binary organic composition by grid form modeling of the retention behavior in reversed-phase ultra high-performance liquid chromatography. *Journal of Pharmaceutical and Biomedical Analysis*, **2017**, 146, 251-260	3.5	4
23	First observation of N-acetyl leucine and N-acetyl isoleucine in diabetic patient hair and quantitative analysis by UPLC-ESI-MS/MS. *Clinica Chimica Acta*, **2015**, 444, 143-8	6.2	4
22	Development of a selective and sensitive analytical method to detect isomerized aspartic acid residues in crystallin using a combination of derivatization and liquid chromatography mass spectrometry. *Journal of Chromatography A*, **2020**, 1623, 461134	4.5	4
21	Dress-up chiral columns for the enantioseparation of amino acids based on fluorous separation. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 8121-9	4.4	4
20	Automatic analyzer for highly polar carboxylic acids based on fluorescence derivatization-liquid chromatography. *Biomedical Chromatography*, **2015**, 29, 445-51	1.7	4
19	Evaluation of a Novel Positively-Charged Pyrrolidine-Based Chiral Derivatization Reagent for the Enantioseparation of Carboxylic Acids by LC-ESI-MS/MS. *Chromatography*, **2015**, 36, 57-60	1.2	4
18	A rapid and sensitive detection of D-Aspartic acid in Crystallin by chiral derivatized liquid chromatography mass spectrometry. *Journal of Chromatography A*, **2016**, 1467, 318-325	4.5	4
17	Fragmentation study of tryptophan-derived metabolites induced by electrospray ionization mass spectrometry for highly sensitive analysis. *Analyst, The*, **2021**, 146, 2292-2300	5	4
16	Sensitive and Comprehensive LC-MS/MS Analyses of Chiral Pharmaceuticals and Their Hepatic Metabolites Using Ovomucoid Column. *Analytical Sciences*, **2018**, 34, 1011-1015	1.7	4
15	Introducing an Experimental Design Approach for Efficient Optimization of Chiral Derivatization Conditions for D- and L-Glyceric Acids. *Analytical Sciences*, **2019**, 35, 1053-1056	1.7	3
14	High-Temperature Reversed-Phase LC Separation of Heavy and Light Chain Fragments of Therapeutic Monoclonal Antibodies and Antibody-Drug Conjugate Produced by Chemical Reduction. *Chromatography*, **2019**, 40, 99-104	1.2	3
13	Computational prediction of diastereomeric separation behavior of fluorescent o-phthalaldehyde derivatives of amino acids. *Analytical Sciences*, **2014**, 30, 865-70	1.7	3
12	Study of Substituted Phenethylamine Fragmentation Induced by Electrospray Ionization Mass Spectrometry and Its Application for Highly Sensitive Analysis of Neurotransmitters in Biological Samples. *Journal of the American Society for Mass Spectrometry*, **2021**, 32, 2144-2152	3.5	3

11	Assessment of Anticancer Drug Effects on Pancreatic Cancer Cells under Glucose-Depleted Conditions Using Intracellular and Extracellular Amino Acid Metabolomics. *Biological and Pharmaceutical Bulletin*, **2018**, 41, 220-228	2.3	2
10	Ex vivo imaging and analysis of ROS generation correlated with microglial activation in rat model with acute neuroinflammation induced by intrastriatal injection of LPS. *Biochemical and Biophysical Research Communications*, **2021**, 584, 101-106	3.4	2
9	Rapid chiral discrimination of oncometabolite dl-2-hydroxyglutaric acid using derivatization and field asymmetric waveform ion mobility spectrometry/mass spectrometry. *Journal of Separation Science*, **2021**, 44, 3489-3496	3.4	2
8	Development of a DNA aptamer that binds to the complementarity-determining region of therapeutic monoclonal antibody and affinity improvement induced by pH-change for sensitive detection.. *Biosensors and Bioelectronics*, **2022**, 203, 114027	11.8	1
7	Sensitive Method for LC Analysis of Therapeutic Monoclonal Antibodies Using a Centrifugal Filtration Device with Adsorption Suppression Treatment. *Chromatography*, **2020**, 41, 123-128	1.2	1
6	Evaluation of intracellular processes in quinolinic acid-induced brain damage by imaging reactive oxygen species generation and mitochondrial complex I activity. *EJNMMI Research*, **2021**, 11, 99	3.6	1
5	Association of dry skin with intercellular lipid composition of stratum corneum after erlotinib administration. *Cancer Chemotherapy and Pharmacology*, **2020**, 86, 233-243	3.5	1
4	Metabolomic profiling of urine-derived extracellular vesicles from rat model of drug-induced acute kidney injury. *Biochemical and Biophysical Research Communications*, **2021**, 546, 103-110	3.4	1
3	Analysis of the intracellular localization of amiodarone using live single-cell mass spectrometry. *Journal of Pharmaceutical and Biomedical Analysis*, **2021**, 205, 114318	3.5	1
2	Machine learning guided prediction of liquid chromatography-mass spectrometry ionization efficiency for genotoxic impurities in pharmaceutical products. *Journal of Pharmaceutical and Biomedical Analysis*, **2021**, 194, 113781	3.5	0
1	Enantio-Separation by Ion-Mobility Spectrometry. *Journal of the Mass Spectrometry Society of Japan* , **2022**, 70, 74-76	0.2	