Kenji Hamase

List of Publications by Year
in descending order

97 papers	4,209 citations	94433 37 h-index	118850 62 g-index
99 all docs	99 docs citations	99 times ranked	2688 citing authors

#	Article	IF	Citations
1	Two-Dimensional High-Performance Liquid Chromatographic Determination of Chiral Amino Acids in Food Samples and Human Physiological Fluids Using Fluorescence Derivatization with 4-(<i>N</i>,<i>N</i>-Dimethylaminosulfonyl)-7-fluoro-2,1,3-benzoxadiazole. Chromatography, 2022, 43, 29-35.	1.7	9
2	Chiral resolution of plasma amino acids reveals enantiomer-selective associations with organ functions. Amino Acids, 2022, 54, 421-432.	2.7	10
3	Plasma d-amino acids are associated with markers of immune activation and organ dysfunction in people with HIV. Aids, 2022, 36, 911-921.	2.2	4
4	Development of an off-line heart cutting two-dimensional HPLC system for enantioselective analysis of serine, threonine and allo-threonine in human physiological fluids. Journal of Pharmaceutical and Biomedical Analysis, 2022, 217, 114807.	2.8	7
5	Enantioselective Determination of Hydroxy Amino Acids in Japanese Traditional Amber Rice Vinegars. Chromatography, 2022, 43, 59-65.	1.7	8
6	Astrocytic <scp>d</scp>â€amino acid oxidase degrades <scp>d</scp>â€serine in the hindbrain. FEBS Letters, 2022, 596, 2889-2897.	2.8	5
7	Ultrafast simultaneous chiral analysis of native amino acid enantiomers using supercritical fluid chromatography/tandem mass spectrometry. Journal of Chromatography A, 2022, 1677, 463305.	3.7	4
8	Off-line two-dimensional LC-MS/MS determination of tryptophan enantiomers in mammalian urine and alteration of their amounts in d-amino acid oxidase deficient mice. Journal of Pharmaceutical and Biomedical Analysis, 2022, 219, 114919.	2.8	3
9	Determination of phenylalanine enantiomers in the plasma and urine of mammals and á´…-amino acid oxidase deficient rodents using two-dimensional high-performance liquid chromatography. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2021, 1869, 140540.	2.3	6
10	Lipidomics links oxidized phosphatidylcholines and coronary arteritis in Kawasaki disease. Cardiovascular Research, 2021, 117, 96-108.	3.8	21
11	Development of a selective three-dimensional HPLC system for enantiomer discriminated analysis of lactate and 3-hydroxybutyrate in human plasma and urine. Journal of Pharmaceutical and Biomedical Analysis, 2021, 195, 113871.	2.8	6
12	A colorimetric assay method for measuring d-glutamate cyclase activity. Analytical Biochemistry, 2020, 605, 113838.	2.4	0
13	d-Amino acid oxidase deficiency is caused by a large deletion in the Dao gene in LEA rats. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140463.	2.3	1
14	Three-dimensional high-performance liquid chromatographic analysis of chiral amino acids in carbonaceous chondrites. Journal of Chromatography A, 2020, 1625, 461255.	3.7	18
15	Determination of temporal changes in serum and urinary lactate and 3-hydroxybutyrate enantiomers in mice with nephrotoxic serum nephritis by multi-dimensional HPLC. Journal of Pharmaceutical and Biomedical Analysis, 2020, 188, 113367.	2.8	7
16	Multi-Dimensional High-Performance Liquid Chromatographic Determination of Chiral Amino Acids and Related Compounds in Real World Samples. Chromatography, 2020, 41, 1-17.	1.7	41
17	High-Performance Liquid Chromatographic Determination of Chiral Amino Acids Using Pre-Column Derivatization with <i>o</i>-Phthalaldehyde and <i>N</i>-<i>tert</i>-Butyloxycarbonyl-D-cysteine and Application to Vinegar Samples. Chromatography, 2020, 41, 147-151.	1.7	10
18	Serum d-serine accumulation after proximal renal tubular damage involves neutral amino acid transporter Asc-1. Scientific Reports, 2019, 9, 16705.	3.3	9

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19	Three-Dimensional High-Performance Liquid Chromatographic Determination of Asn, Ser, Ala, and Pro Enantiomers in the Plasma of Patients with Chronic Kidney Disease. Analytical Chemistry, 2019, 91, 11569-11575.	6.5	54
20	Determination of Chiral Amino Acids in Various Fermented Products Using a Two-Dimensional HPLC-MS/MS System. Chromatography, 2019, 40, 83-87.	1.7	18
21	A deletion in the Ctns gene causes renal tubular dysfunction and cystine accumulation in LEA/Tohm rats. Mammalian Genome, 2019, 30, 23-33.	2.2	12
22	D-Serine reflects kidney function and diseases. Scientific Reports, 2019, 9, 5104.	3.3	64
23	Development of a Three-Dimensional HPLC System for the Simultaneous Determination of Lactate and 3-Hydroxybutyrate Enantiomers in Mammalian Urine. Chromatography, 2019, 40, 25-32.	1.7	10
24	Multi-Dimensional HPLC Analysis of Metabolic Related Chiral Amino Acids -Method Development and Biological/Clinical Applications-. Chromatography, 2019, 40, 1-8.	1.7	19
25	d -Amino acids in molecular evolution in space â€“ Absolute asymmetric photolysis and synthesis of amino acids by circularly polarized light. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 743-758.	2.3	25
26	Enantioselective and simultaneous determination of lactate and 3â€hydroxybutyrate in human plasma and urine using a narrowâ€bore online twoâ€dimensional highâ€performance liquid chromatography system. Journal of Separation Science, 2018, 41, 1298-1306.	2.5	21
27	Development of a Highly-Sensitive Two-Dimensional HPLC System with Narrowbore Reversed-Phase and Microbore Enantioselective Columns and Application to the Chiral Amino Acid Analysis of the Mammalian Brain. Chromatography, 2018, 39, 83-90.	1.7	12
28	Gut microbiotaâ€“derived D-serine protects against acute kidney injury. JCI Insight, 2018, 3, .	5.0	99
29	Multi-Dimensional HPLC Analysis of Serine Containing Chiral Dipeptides in Japanese Traditional Amber Rice Vinegar. Chromatography, 2018, 39, 59-66.	1.7	10
30	Determination of Trace Amounts of Chiral Amino Acids in Complicated Biological Samples Using Two-Dimensional High-Performance Liquid Chromatography with an Innovative â€œShape-Fittingâ€•Peak Identification/Quantification Method. Chromatography, 2018, 39, 147-152.	1.7	14
31	Structural and enzymatic properties of mammalian d-glutamate cyclase. Archives of Biochemistry and Biophysics, 2018, 654, 10-18.	3.0	6
32	Development of an online two-dimensional high-performance liquid chromatographic system in combination with tandem mass spectrometric detection for enantiomeric analysis of free amino acids in human physiological fluid. Journal of Chromatography A, 2018, 1570, 91-98.	3.7	65
33	Heterogeneity of D-Serine Distribution in the Human Central Nervous System. ASN Neuro, 2017, 9, 175909141771390.	2.7	28
34	D-Glutamate is metabolized in the heart mitochondria. Scientific Reports, 2017, 7, 43911.	3.3	53
35	Mouse d-Amino-Acid Oxidase: Distribution and Physiological Substrates. Frontiers in Molecular Biosciences, 2017, 4, 82.	3.5	42
36	Amino acid and bioamine separations. , 2017, , 87-106.		1

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37	Sleep-Awake Profile Related Circadian D-Alanine Rhythm in Human Serum and Urine. Chromatography, 2017, 38, 53-58.	1.7	18
38	Two-Dimensional HPLC-MS/MS Determination of Multiple D-Amino Acid Residues in the Proteins Stored Under Various pH Conditions. Chromatography, 2017, 38, 65-72.	1.7	15
39	Enantioselective Determination of Phenylalanine, Tyrosine and 3,4-Dihydroxyphenylalanine in the Urine of D-Amino Acid Oxidase Deficient Mice Using Two-Dimensional High-Performance Liquid Chromatography. Chromatography, 2016, 37, 15-22.	1.7	26
40	Chiral amino acid metabolomics for novel biomarker screening in the prognosis of chronic kidney disease. Scientific Reports, 2016, 6, 26137.	3.3	162
41	Enantioselective determination of citrulline and ornithine in the urine of d -amino acid oxidase deficient mice using a two-dimensional high-performance liquid chromatographic system. Journal of Chromatography A, 2016, 1467, 312-317.	3.7	27
42	Determination of d-Amino Acids and Their Distribution in Mammals. , 2016, , 3-17.		1
43	Interplay between microbial d-amino acids and host d-amino acid oxidase modifies murine mucosal defence and gut microbiota. Nature Microbiology, 2016, 1, 16125.	13.3	151
44	Establishment of a Two-Dimensional HPLC-MS/MS Method Combined with DCl/D₂O Hydrolysis for the Determination of Trace Amounts of D-Amino Acid Residues in Proteins. Chromatography, 2015, 36, 45-50.	1.7	14
45	Simultaneous analysis of d-alanine, d-aspartic acid, and d-serine using chiral high-performance liquid chromatography-tandem mass spectrometry and its application to the rat plasma and tissues. Journal of Pharmaceutical and Biomedical Analysis, 2015, 115, 123-129.	2.8	59
46	Design and synthesis of a novel pre-column derivatization reagent with a 6-methoxy-4-quinolone moiety for fluorescence and tandem mass spectrometric detection and its application to chiral amino acid analysis. Journal of Pharmaceutical and Biomedical Analysis, 2015, 116, 71-79.	2.8	11
47	Establishment of a two-dimensional chiral HPLC system for the simultaneous detection of lactate and 3-hydroxybutyrate enantiomers in human clinical samples. Journal of Pharmaceutical and Biomedical Analysis, 2015, 116, 80-85.	2.8	19
48	Glycolytic flux controls <scp>d</scp> -serine synthesis through glyceraldehyde-3-phosphate dehydrogenase in astrocytes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2217-24.	7.1	41
49	Changes in d-aspartic acid and d-glutamic acid levels in the tissues and physiological fluids of mice with various d-aspartate oxidase activities. Journal of Pharmaceutical and Biomedical Analysis, 2015, 116, 47-52.	2.8	39
50	Recent advances on d-amino acid research. Journal of Pharmaceutical and Biomedical Analysis, 2015, 116, 1.	2.8	3
51	Lysocin E is a new antibiotic that targets menaquinone in the bacterial membrane. Nature Chemical Biology, 2015, 11, 127-133.	8.0	194
52	Ischemic Acute Kidney Injury Perturbs Homeostasis of Serine Enantiomers in the Body Fluid in Mice: Early Detection of Renal Dysfunction Using the Ratio of Serine Enantiomers. PLoS ONE, 2014, 9, e86504.	2.5	57
53	Enantioselective Determination of Extraterrestrial Amino Acids Using a Two-Dimensional Chiral High-Performance Liquid Chromatographic System. Chromatography, 2014, 35, 103-110.	1.7	32
54	Localization of Serine Racemase and Its Role in the Skin. Journal of Investigative Dermatology, 2014, 134, 1618-1626.	0.7	32

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55	Cellular Origin and Regulation of <scp>D</scp>-and <scp>L</scp>-Serine in in Vitro and in Vivo Models of Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1928-1935.	4.3	18
56	Chiral amino acid analysis of Japanese traditional Kurozu and the developmental changes during earthenware jar fermentation processes. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 966, 187-192.	2.3	49
57	Enantioselective Two-Dimensional High-Performance Liquid Chromatographic Determination of Amino Acids; Analysis and Physiological Significance of D-Amino Acids in Mammals. Chromatography, 2014, 35, 49-57.	1.7	56
58	Two-dimensional high-performance liquid chromatographic determination of dayâ€“night variation of d-alanine in mammals and factors controlling the circadian changes. Analytical and Bioanalytical Chemistry, 2013, 405, 8083-8091.	3.7	37
59	<scp>d</scp> -Amino acid oxidase controls motoneuron degeneration through <scp>d</scp> -serine. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 627-632.	7.1	186
60	Enantioselective two-dimensional high-performance liquid chromatographic determination of N-methyl-d-aspartic acid and its analogues in mammals and bivalves. Journal of Chromatography A, 2012, 1269, 255-261.	3.7	30
61	Alteration of intrinsic amounts of d-serine in the mice lacking serine racemase and d-amino acid oxidase. Amino Acids, 2012, 43, 1919-1931.	2.7	43
62	HPLC analysis of naturally occurring free d-amino acids in mammals. Journal of Pharmaceutical and Biomedical Analysis, 2012, 69, 42-49.	2.8	103
63	d-Amino acids in the brain and mutant rodents lacking d-amino-acid oxidase activity. Amino Acids, 2012, 43, 1811-1821.	2.7	47
64	Type 1 diabetes mellitus in mice increases hippocampal d-serine in the acute phase after streptozotocin injection. Brain Research, 2012, 1466, 167-176.	2.2	19
65	Simultaneous two-dimensional HPLC determination of free d-serine and d-alanine in the brain and periphery of mutant rats lacking d-amino-acid oxidase. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 3184-3189.	2.3	70
66	HPLC determination of the distribution of d-amino acids and effects of ecdysis on alanine racemase activity in kuruma prawn Marsupenaeus japonicus. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 3283-3288.	2.3	24
67	d-Amino acid metabolism in mammals: Biosynthesis, degradation and analytical aspects of the metabolic study. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 3162-3168.	2.3	72
68	Simultaneous determination of d-aspartic acid and d-glutamic acid in rat tissues and physiological fluids using a multi-loop two-dimensional HPLC procedure. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 3196-3202.	2.3	65
69	Enantioselective microâ€2Dâ€HPLC determination of aspartic acid in the pineal glands of rodents with various melatonin contents. Journal of Separation Science, 2011, 34, 2847-2853.	2.5	17
70	D-Serine regulates cerebellar LTD and motor coordination through the Î´2 glutamate receptor. Nature Neuroscience, 2011, 14, 603-611.	14.8	158
71	Mutant Mice and Rats Lacking <scp>D</scp>â€Amino Acid Oxidase. Chemistry and Biodiversity, 2010, 7, 1450-1458.	2.1	26
72	Simultaneous determination of hydrophilic amino acid enantiomers in mammalian tissues and physiological fluids applying a fully automated micro-two-dimensional high-performance liquid chromatographic concept. Journal of Chromatography A, 2010, 1217, 1056-1062.	3.7	112

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73	Simple and rapid genotyping of <scp>D</scp>â€amino acid oxidase gene recognizing a crucial variant in the ddY strain using microchip electrophoresis. Journal of Separation Science, 2009, 32, 430-436.	2.5	8
74	Enantioselective visualization of D-alanine in rat anterior pituitary gland: localization to ACTH-secreting cells. Analytical and Bioanalytical Chemistry, 2009, 393, 217-223.	3.7	35
75	Determination of d-serine and d-alanine in the tissues and physiological fluids of mice with various d-amino-acid oxidase activities using two-dimensional high-performance liquid chromatography with fluorescence detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2506-2512.	2.3	121
76	Analysis of Small Amounts of D-Amino Acids and the Study of Their Physiological Functions in Mammals. Analytical Sciences, 2009, 25, 961-968.	1.6	63
77	Circadian changes of d-alanine and related compounds in rats and the effect of restricted feeding on their amounts. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 875, 168-173.	2.3	31
78	Automated and simultaneous two-dimensional micro-high-performance liquid chromatographic determination of proline and hydroxyproline enantiomers in mammals. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 875, 174-179.	2.3	41
79	Sensitive Two-Dimensional Determination of Small Amounts of D-Amino Acids in Mammals and the Study on Their Functions. Chemical and Pharmaceutical Bulletin, 2007, 55, 503-510.	1.3	38
80	Immunohistochemical localization of d-alanine to Î²-cells in rat pancreas. Biochemical and Biophysical Research Communications, 2007, 355, 872-876.	2.1	57
81	Comprehensive analysis of branched aliphatic d-amino acids in mammals using an integrated multi-loop two-dimensional column-switching high-performance liquid chromatographic system combining reversed-phase and enantioselective columns. Journal of Chromatography A, 2007, 1143, 105-111.	3.7	97
82	High-throughput determination of free d-aspartic acid in mammals by enzyme immunoassay using specific monoclonal antibody. Analytical Biochemistry, 2006, 357, 15-20.	2.4	5
83	Sensitive high-performance liquid chromatographic assay for d-amino-acid oxidase activity in mammalian tissues using a fluorescent non-natural substrate, 5-fluoro-d-tryptophan. Journal of Chromatography A, 2006, 1106, 159-164.	3.7	21
84	Presence and origin of large amounts of d-proline in the urine of mutant mice lacking d-amino acid oxidase activity. Analytical and Bioanalytical Chemistry, 2006, 386, 705-711.	3.7	43
85	Meet the Guest Editors. Analytical and Bioanalytical Chemistry, 2006, 386, 403-404.	3.7	0
86	Sensitive Determination of D-Amino Acids in Mammals and the Effect of D-Amino-Acid Oxidase Activity on Their Amounts. Biological and Pharmaceutical Bulletin, 2005, 28, 1578-1584.	1.4	74
87	Novel stable fluorophore, 6-methoxy-4-quinolone, with strong fluorescence in wide pH range of aqueous media, and its application as a fluorescent labeling reagent. Journal of Chromatography A, 2004, 1059, 225-231.	3.7	14
88	Determination of D- and L-enantiomers of threonine and allo-threonine in mammals using two-step high-performance liquid chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 810, 245-250.	2.3	21
89	Determination of d- and l-enantiomers of threonine and allo-threonine in mammals using two-step high-performance liquid chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 810, 245-250.	2.3	10
90	Determination of d-alanine in the rat central nervous system and periphery using column-switching high-performance liquid chromatography. Analytical Biochemistry, 2003, 312, 66-72.	2.4	101

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91	Determination of endogenous melatonin in the individual pineal glands of inbred mice using precolumn oxidation reversed-phase micro-high-performance liquid chromatography. Analytical Biochemistry, 2003, 316, 154-161.	2.4	28
92	d-Amino acids in mammals and their diagnostic value. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 781, 73-91.	2.3	200
93	Determination of free d-aspartic acid, d-serine and d-alanine in the brain of mutant mice lacking d-amino-acid oxidase activity. Biomedical Applications, 2001, 757, 119-125.	1.7	133
94	Determination of Free -Proline and -Leucine in the Brains of Mutant Mice Lacking -Amino Acid Oxidase Activity. Analytical Biochemistry, 2001, 298, 253-258.	2.4	78
95	Determination of Pineal Melatonin by Precolumn Derivatization Reversed-Phase High-Performance Liquid Chromatography and Its Application to the Study of Circadian Rhythm in Rats and Mice. Analytical Biochemistry, 2000, 279, 106-110.	2.4	29
96	Determination of minute amounts of d-leucine in various brain regions of rat and mouse using column-switching high-performance liquid chromatography. Biomedical Applications, 2000, 744, 213-219.	1.7	49
97	Regional distribution and postnatal changes of d-amino acids in rat brain. Biochimica Et Biophysica Acta - General Subjects, 1997, 1334, 214-222.	2.4	156