

Kenji Hamase

List of Publications by Year in descending order

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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	d-Amino acids in mammals and their diagnostic value. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 781, 73-91.	2.3	200
2	Lysocin E is a new antibiotic that targets menaquinone in the bacterial membrane. <i>Nature Chemical Biology</i> , 2015, 11, 127-133.	8.0	194
3	d-Amino acid oxidase controls motoneuron degeneration through d-serine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 627-632.	7.1	186
4	Chiral amino acid metabolomics for novel biomarker screening in the prognosis of chronic kidney disease. <i>Scientific Reports</i> , 2016, 6, 26137.	3.3	162
5	D-Serine regulates cerebellar LTD and motor coordination through the $\hat{2}$ glutamate receptor. <i>Nature Neuroscience</i> , 2011, 14, 603-611.	14.8	158
6	Regional distribution and postnatal changes of d-amino acids in rat brain. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1997, 1334, 214-222.	2.4	156
7	Interplay between microbial d-amino acids and host d-amino acid oxidase modifies murine mucosal defence and gut microbiota. <i>Nature Microbiology</i> , 2016, 1, 16125.	13.3	151
8	Determination of free d-aspartic acid, d-serine and d-alanine in the brain of mutant mice lacking d-amino-acid oxidase activity. <i>Biomedical Applications</i> , 2001, 757, 119-125.	1.7	133
9	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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 2506-2512.	2.3	121
10	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. <i>Journal of Chromatography A</i> , 2010, 1217, 1056-1062.	3.7	112
11	HPLC analysis of naturally occurring free d-amino acids in mammals. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 69, 42-49.	2.8	103
12	Determination of d-alanine in the rat central nervous system and periphery using column-switching high-performance liquid chromatography. <i>Analytical Biochemistry</i> , 2003, 312, 66-72.	2.4	101
13	Gut microbiota-derived D-serine protects against acute kidney injury. <i>JCI Insight</i> , 2018, 3, .	5.0	99
14	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. <i>Journal of Chromatography A</i> , 2007, 1143, 105-111.	3.7	97
15	Determination of Free -Proline and -Leucine in the Brains of Mutant Mice Lacking -Amino Acid Oxidase Activity. <i>Analytical Biochemistry</i> , 2001, 298, 253-258.	2.4	78
16	Sensitive Determination of D-Amino Acids in Mammals and the Effect of D-Amino-Acid Oxidase Activity on Their Amounts. <i>Biological and Pharmaceutical Bulletin</i> , 2005, 28, 1578-1584.	1.4	74
17	d-Amino acid metabolism in mammals: Biosynthesis, degradation and analytical aspects of the metabolic study. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 3162-3168.	2.3	72
18	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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 3184-3189.	2.3	70

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19	Simultaneous determination of d-aspartic acid and d-glutamic acid in rat tissues and physiological fluids using a multi-loop two-dimensional HPLC procedure. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 3196-3202.	2.3	65
20	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. <i>Journal of Chromatography A</i> , 2018, 1570, 91-98.	3.7	65
21	D-Serine reflects kidney function and diseases. <i>Scientific Reports</i> , 2019, 9, 5104.	3.3	64
22	Analysis of Small Amounts of D-Amino Acids and the Study of Their Physiological Functions in Mammals. <i>Analytical Sciences</i> , 2009, 25, 961-968.	1.6	63
23	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 115, 123-129.	2.8	59
24	Immunohistochemical localization of d-alanine to β^2 -cells in rat pancreas. <i>Biochemical and Biophysical Research Communications</i> , 2007, 355, 872-876.	2.1	57
25	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. <i>PLoS ONE</i> , 2014, 9, e86504.	2.5	57
26	Enantioselective Two-Dimensional High-Performance Liquid Chromatographic Determination of Amino Acids; Analysis and Physiological Significance of D-Amino Acids in Mammals. <i>Chromatography</i> , 2014, 35, 49-57.	1.7	56
27	Three-Dimensional High-Performance Liquid Chromatographic Determination of Asn, Ser, Ala, and Pro Enantiomers in the Plasma of Patients with Chronic Kidney Disease. <i>Analytical Chemistry</i> , 2019, 91, 11569-11575.	6.5	54
28	D-Glutamate is metabolized in the heart mitochondria. <i>Scientific Reports</i> , 2017, 7, 43911.	3.3	53
29	Determination of minute amounts of d-leucine in various brain regions of rat and mouse using column-switching high-performance liquid chromatography. <i>Biomedical Applications</i> , 2000, 744, 213-219.	1.7	49
30	Chiral amino acid analysis of Japanese traditional Kurozu and the developmental changes during earthenware jar fermentation processes. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 966, 187-192.	2.3	49
31	d-Amino acids in the brain and mutant rodents lacking d-amino-acid oxidase activity. <i>Amino Acids</i> , 2012, 43, 1811-1821.	2.7	47
32	Presence and origin of large amounts of d-proline in the urine of mutant mice lacking d-amino acid oxidase activity. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 705-711.	3.7	43
33	Alteration of intrinsic amounts of d-serine in the mice lacking serine racemase and d-amino acid oxidase. <i>Amino Acids</i> , 2012, 43, 1919-1931.	2.7	43
34	Mouse d-Amino-Acid Oxidase: Distribution and Physiological Substrates. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 82.	3.5	42
35	Automated and simultaneous two-dimensional micro-high-performance liquid chromatographic determination of proline and hydroxyproline enantiomers in mammals. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 875, 174-179.	2.3	41
36	Glycolytic flux controls d-serine synthesis through glyceraldehyde-3-phosphate dehydrogenase in astrocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2217-24.	7.1	41

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37	Multi-Dimensional High-Performance Liquid Chromatographic Determination of Chiral Amino Acids and Related Compounds in Real World Samples. <i>Chromatography</i> , 2020, 41, 1-17.	1.7	41
38	Changes in d-aspartic acid and d-glutamic acid levels in the tissues and physiological fluids of mice with various d-aspartate oxidase activities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 116, 47-52.	2.8	39
39	Sensitive Two-Dimensional Determination of Small Amounts of D-Amino Acids in Mammals and the Study on Their Functions. <i>Chemical and Pharmaceutical Bulletin</i> , 2007, 55, 503-510.	1.3	38
40	Two-dimensional high-performance liquid chromatographic determination of day-night variation of d-alanine in mammals and factors controlling the circadian changes. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 8083-8091.	3.7	37
41	Enantioselective visualization of D-alanine in rat anterior pituitary gland: localization to ACTH-secreting cells. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 217-223.	3.7	35
42	Enantioselective Determination of Extraterrestrial Amino Acids Using a Two-Dimensional Chiral High-Performance Liquid Chromatographic System. <i>Chromatography</i> , 2014, 35, 103-110.	1.7	32
43	Localization of Serine Racemase and Its Role in the Skin. <i>Journal of Investigative Dermatology</i> , 2014, 134, 1618-1626.	0.7	32
44	Circadian changes of d-alanine and related compounds in rats and the effect of restricted feeding on their amounts. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 875, 168-173.	2.3	31
45	Enantioselective two-dimensional high-performance liquid chromatographic determination of N-methyl-d-aspartic acid and its analogues in mammals and bivalves. <i>Journal of Chromatography A</i> , 2012, 1269, 255-261.	3.7	30
46	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. <i>Analytical Biochemistry</i> , 2000, 279, 106-110.	2.4	29
47	Determination of endogenous melatonin in the individual pineal glands of inbred mice using precolumn oxidation reversed-phase micro-high-performance liquid chromatography. <i>Analytical Biochemistry</i> , 2003, 316, 154-161.	2.4	28
48	Heterogeneity of D-Serine Distribution in the Human Central Nervous System. <i>ASN Neuro</i> , 2017, 9, 175909141771390.	2.7	28
49	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. <i>Journal of Chromatography A</i> , 2016, 1467, 312-317.	3.7	27
50	Mutant Mice and Rats Lacking D-Amino Acid Oxidase. <i>Chemistry and Biodiversity</i> , 2010, 7, 1450-1458.	2.1	26
51	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. <i>Chromatography</i> , 2016, 37, 15-22.	1.7	26
52	d-Amino acids in molecular evolution in space - Absolute asymmetric photolysis and synthesis of amino acids by circularly polarized light. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 743-758.	2.3	25
53	HPLC determination of the distribution of d-amino acids and effects of ecdysis on alanine racemase activity in kuruma prawn <i>Marsupenaeus japonicus</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 3283-3288.	2.3	24
54	Determination of D- and L-enantiomers of threonine and allo-threonine in mammals using two-step high-performance liquid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 810, 245-250.	2.3	21

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55	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. <i>Journal of Chromatography A</i> , 2006, 1106, 159-164.	3.7	21
56	Enantioselective and simultaneous determination of lactate and 3-hydroxybutyrate in human plasma and urine using a narrow-bore online two-dimensional high-performance liquid chromatography system. <i>Journal of Separation Science</i> , 2018, 41, 1298-1306.	2.5	21
57	Lipidomics links oxidized phosphatidylcholines and coronary arteritis in Kawasaki disease. <i>Cardiovascular Research</i> , 2021, 117, 96-108.	3.8	21
58	Type 1 diabetes mellitus in mice increases hippocampal d-serine in the acute phase after streptozotocin injection. <i>Brain Research</i> , 2012, 1466, 167-176.	2.2	19
59	Establishment of a two-dimensional chiral HPLC system for the simultaneous detection of lactate and 3-hydroxybutyrate enantiomers in human clinical samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 116, 80-85.	2.8	19
60	Multi-Dimensional HPLC Analysis of Metabolic Related Chiral Amino Acids -Method Development and Biological/Clinical Applications-. <i>Chromatography</i> , 2019, 40, 1-8.	1.7	19
61	Cellular Origin and Regulation of D- and L-Serine in <i>in Vitro</i> and <i>in Vivo</i> Models of Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1928-1935.	4.3	18
62	Sleep-Awake Profile Related Circadian D-Alanine Rhythm in Human Serum and Urine. <i>Chromatography</i> , 2017, 38, 53-58.	1.7	18
63	Determination of Chiral Amino Acids in Various Fermented Products Using a Two-Dimensional HPLC-MS/MS System. <i>Chromatography</i> , 2019, 40, 83-87.	1.7	18
64	Three-dimensional high-performance liquid chromatographic analysis of chiral amino acids in carbonaceous chondrites. <i>Journal of Chromatography A</i> , 2020, 1625, 461255.	3.7	18
65	Enantioselective micro-HPLC determination of aspartic acid in the pineal glands of rodents with various melatonin contents. <i>Journal of Separation Science</i> , 2011, 34, 2847-2853.	2.5	17
66	Two-Dimensional HPLC-MS/MS Determination of Multiple D-Amino Acid Residues in the Proteins Stored Under Various pH Conditions. <i>Chromatography</i> , 2017, 38, 65-72.	1.7	15
67	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. <i>Journal of Chromatography A</i> , 2004, 1059, 225-231.	3.7	14
68	Establishment of a Two-Dimensional HPLC-MS/MS Method Combined with DCI/D ₂ O Hydrolysis for the Determination of Trace Amounts of D-Amino Acid Residues in Proteins. <i>Chromatography</i> , 2015, 36, 45-50.	1.7	14
69	Determination of Trace Amounts of Chiral Amino Acids in Complicated Biological Samples Using Two-Dimensional High-Performance Liquid Chromatography with an Innovative "Shape-Fitting" Peak Identification/Quantification Method. <i>Chromatography</i> , 2018, 39, 147-152.	1.7	14
70	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. <i>Chromatography</i> , 2018, 39, 83-90.	1.7	12
71	A deletion in the Ctns gene causes renal tubular dysfunction and cystine accumulation in LEA/Tohm rats. <i>Mammalian Genome</i> , 2019, 30, 23-33.	2.2	12
72	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 116, 71-79.	2.8	11

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73	Multi-Dimensional HPLC Analysis of Serine Containing Chiral Dipeptides in Japanese Traditional Amber Rice Vinegar. <i>Chromatography</i> , 2018, 39, 59-66.	1.7	10
74	Development of a Three-Dimensional HPLC System for the Simultaneous Determination of Lactate and 3-Hydroxybutyrate Enantiomers in Mammalian Urine. <i>Chromatography</i> , 2019, 40, 25-32.	1.7	10
75	Determination of d- and l-enantiomers of threonine and allo-threonine in mammals using two-step high-performance liquid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 810, 245-250.	2.3	10
76	High-Performance Liquid Chromatographic Determination of Chiral Amino Acids Using Pre-Column Derivatization with <i>o</i> -Phthalaldehyde and <i>N</i> -tert-Butyloxycarbonyl-D-cysteine and Application to Vinegar Samples. <i>Chromatography</i> , 2020, 41, 147-151.	1.7	10
77	Chiral resolution of plasma amino acids reveals enantiomer-selective associations with organ functions. <i>Amino Acids</i> , 2022, 54, 421-432.	2.7	10
78	Serum d-serine accumulation after proximal renal tubular damage involves neutral amino acid transporter Asc-1. <i>Scientific Reports</i> , 2019, 9, 16705.	3.3	9
79	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. <i>Chromatography</i> , 2022, 43, 29-35.	1.7	9
80	Simple and rapid genotyping of <i>D</i> -amino acid oxidase gene recognizing a crucial variant in the ddY strain using microchip electrophoresis. <i>Journal of Separation Science</i> , 2009, 32, 430-436.	2.5	8
81	Enantioselective Determination of Hydroxy Amino Acids in Japanese Traditional Amber Rice Vinegars. <i>Chromatography</i> , 2022, 43, 59-65.	1.7	8
82	Determination of temporal changes in serum and urinary lactate and 3-hydroxybutyrate enantiomers in mice with nephrotoxic serum nephritis by multi-dimensional HPLC. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 188, 113367.	2.8	7
83	Development of an off-line heart cutting two-dimensional HPLC system for enantioselective analysis of serine, threonine and allo-threonine in human physiological fluids. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 217, 114807.	2.8	7
84	Structural and enzymatic properties of mammalian d-glutamate cyclase. <i>Archives of Biochemistry and Biophysics</i> , 2018, 654, 10-18.	3.0	6
85	Determination of phenylalanine enantiomers in the plasma and urine of mammals and <i>d</i> -amino acid oxidase deficient rodents using two-dimensional high-performance liquid chromatography. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2021, 1869, 140540.	2.3	6
86	Development of a selective three-dimensional HPLC system for enantiomer discriminated analysis of lactate and 3-hydroxybutyrate in human plasma and urine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 195, 113871.	2.8	6
87	High-throughput determination of free d-aspartic acid in mammals by enzyme immunoassay using specific monoclonal antibody. <i>Analytical Biochemistry</i> , 2006, 357, 15-20.	2.4	5
88	Astrocytic <i>d</i> -amino acid oxidase degrades <i>d</i> -serine in the hindbrain. <i>FEBS Letters</i> , 2022, 596, 2889-2897.	2.8	5
89	Plasma d-amino acids are associated with markers of immune activation and organ dysfunction in people with HIV. <i>Aids</i> , 2022, 36, 911-921.	2.2	4
90	Ultrafast simultaneous chiral analysis of native amino acid enantiomers using supercritical fluid chromatography/tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2022, 1677, 463305.	3.7	4

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91	Recent advances on d-amino acid research. Journal of Pharmaceutical and Biomedical Analysis, 2015, 116, 1.	2.8	3
92	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
93	Determination of d-Amino Acids and Their Distribution in Mammals. , 2016, , 3-17.		1
94	Amino acid and bioamine separations. , 2017, , 87-106.		1
95	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
96	Meet the Guest Editors. Analytical and Bioanalytical Chemistry, 2006, 386, 403-404.	3.7	0
97	A colorimetric assay method for measuring d-glutamate cyclase activity. Analytical Biochemistry, 2020, 605, 113838.	2.4	0