Yasuhisa Asano

List of Publications by Year
in descending order

270	6,575	61984	123424
papers	citations	43 h-index	61 g-index

292	292	292	3334
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural characterization of Linum usitatissimum hydroxynitrile lyase: A new cyanohydrin decomposition mechanism involving a cyano-zinc complex. Journal of Biological Chemistry, 2022, 298, 101650.	3.4	3
2	Thermostability enhancement of l-glutamate oxidase from Streptomyces sp. NT1 by full consensus protein design. Journal of Bioscience and Bioengineering, 2022, 133, 309-315.	2.2	2
3	Crystal structural analysis of aldoxime dehydratase from Bacillus sp. OxB-1: Importance of surface residues in optimization for crystallization. Journal of Inorganic Biochemistry, 2022, 230, 111770.	3.5	9
4	Construction of the UDP-Glucose Biosynthetic Enzyme Gene Coexpression Plasmid for Prunasin Production in Escherichia coli. Methods in Molecular Biology, 2022, 2469, 19-28.	0.9	2
5	Novel Enzymatic Method for Imine Synthesis via the Oxidation of Primary Amines Using D-Amino Acid Oxidase from Porcine Kidney. Catalysts, 2022, 12, 511.	3.5	2
6	Râ€hydroxynitrile lyase from the cyanogenic millipede, Chamberlinius hualienensisâ€”A new entry to the carrier protein family Lipocalines. FEBS Journal, 2021, 288, 1679-1695.	4.7	8
7	Synthetic Processes toward Nitriles without the Use of Cyanide: A Biocatalytic Concept Based on Dehydration of Aldoximes in Water. Chemistry - A European Journal, 2021, 27, 5313-5321.	3.3	19
8	Identification of l-histidine oxidase activity in Achromobacter sp. TPU 5009 for l-histidine determination. Journal of Bioscience and Bioengineering, 2021, 131, 469-474.	2.2	2
9	A promiscuous fatty acid ï‰â€hydroxylase CYP94A90 is likely to be involved in biosynthesis of a floral nitro compound in loquat (Eriobotrya japonica). New Phytologist, 2021, 231, 1157-1170.	7.3	9
10	Recent progress on discovery and research of aldoxime dehydratases. Green Synthesis and Catalysis, 2021, 2, 179-186.	6.8	20
11	Rationalizing the Unprecedented Stereochemistry of an Enzymatic Nitrile Synthesis through a Combined Computational and Experimental Approach. Angewandte Chemie - International Edition, 2021, 60, 19162-19168.	13.8	10
12	Protein engineering of the aldoxime dehydratase from Bacillus sp. OxB-1 based on a rational sequence alignment approach. Scientific Reports, 2021, 11, 14316.	3.3	5
13	Partial Consensus Design and Enhancement of Protein Function by Secondary-Structure-Guided Consensus Mutations. Biochemistry, 2021, 60, 2309-2319.	2.5	2
14	Rationalizing the Unprecedented Stereochemistry of an Enzymatic Nitrile Synthesis through a Combined Computational and Experimental Approach. Angewandte Chemie, 2021, 133, 19311-19317.	2.0	0
15	A Cyanideâ€free Biocatalytic Process for Synthesis of Complementary Enantiomers of 4â€Chloroâ€3â€hydroxybutanenitrile From Allyl Chloride. ChemCatChem, 2021, 13, 4237-4242.	3.7	5
16	Combination of Enzymatic Oxidation of Amino Acid and Native Chemical Ligation with Hydroxylamine for Amide Formation toward a One-pot Process. Chemistry Letters, 2021, 50, 1632-1634.	1.3	0
17	Stabilization of Hydroxynitrile Lyases from Two Variants of Passion Fruit, Passiflora edulis Sims and Passiflora edulis Forma flavicarpa, by Câ€Terminal Truncation. ChemBioChem, 2020, 21, 181-189.	2.6	2
18	Porcine kidney d-amino acid oxidase-derived R-amine oxidases with new substrate specificities. The Enzymes, 2020, 47, 117-136.	1.7	5

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19	Discovery and Structural Analysis to Improve the Enantioselectivity of Hydroxynitrile Lyase from Parafontaria laminata Millipedes for (R)-2-Chloromandelonitrile Synthesis. ACS Omega, 2020, 5, 27896-27908.	3.5	9
20	Protein Sequence Selection Method That Enables Full Consensus Design of Artificial <scp>l</scp>-Threonine 3-Dehydrogenases with Unique Enzymatic Properties. Biochemistry, 2020, 59, 3823-3833.	2.5	16
21	Computational study on the polymerization reaction of<scp>d</scp>-aminopeptidase for the synthesis of<scp>d</scp>-peptides. RSC Advances, 2020, 10, 17582-17592.	3.6	5
22	Mechanistic insights into the dual activities of the single active site of l-lysine oxidase/monooxygenase from Pseudomonas sp. AIU 813. Journal of Biological Chemistry, 2020, 295, 11246-11261.	3.4	11
23	Aldoxime Dehydratase Mutants as Improved Biocatalysts for a Sustainable Synthesis of Biorenewables-Based 2-Furonitrile. Catalysts, 2020, 10, 362.	3.5	12
24	Biocatalytic asymmetric ring-opening of dihydroisoxazoles: a cyanide-free route to complementary enantiomers of Î²-hydroxy nitriles from olefins. Green Chemistry, 2020, 22, 4930-4936.	9.0	15
25	Cyanide-Free Enantioselective Catalytic Strategies for the Synthesis of Chiral Nitriles. Journal of Organic Chemistry, 2020, 85, 6243-6251.	3.2	17
26	Development of a rapid and simple glycine analysis method using a stable glycine oxidase mutant. Analytical Biochemistry, 2019, 587, 113447.	2.4	4
27	Editorial for the special issue on enzyme assay of amino acids. Analytical Biochemistry, 2019, 587, 113464.	2.4	0
28	Purification, characterization, and gene cloning of a novel aminoacylase from Burkholderia sp. strain LP5_18B that efficiently catalyzes the synthesis of N-lauroyl-<scp>l</scp>-amino acids. Bioscience, Biotechnology and Biochemistry, 2019, 83, 1964-1973.	1.3	12
29	Comparative review of the recent enzymatic methods used for selective assay of l-lysine. Analytical Biochemistry, 2019, 584, 113335.	2.4	3
30	Cyanide-free synthesis of an aromatic nitrile from a biorenewable-based aldoxime: Development and application of a recombinant aldoxime dehydratase as a biocatalyst. Biocatalysis and Biotransformation, 2019, 37, 414-420.	2.0	13
31	Creation of thermostable l-tryptophan dehydrogenase by protein engineering and its application for l-tryptophan quantification. Analytical Biochemistry, 2019, 579, 57-63.	2.4	5
32	Effects of codon optimization and glycosylation on the high-level production of hydroxynitrile lyase from Chamberlinius hualienensis in Pichia pastoris. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 887-898.	3.0	8
33	Following the Evolutionary Track of a Highly Specific <scp>l</scp> -Arginine Oxidase by Reconstruction and Biochemical Analysis of Ancestral and Native Enzymes. Applied and Environmental Microbiology, 2019, 85, .	3.1	19
34	Approaching Bulk Chemical Nitriles from Alkenes: A Hydrogen Cyanide-Free Approach through a Combination of Hydroformylation and Biocatalysis. ACS Catalysis, 2019, 9, 5198-5203.	11.2	51
35	Identification and development of amino acid oxidases. Current Opinion in Chemical Biology, 2019, 49, 76-83.	6.1	22
36	Screening and development of enzymes for determination and transformation of amino acids. Bioscience, Biotechnology and Biochemistry, 2019, 83, 1402-1416.	1.3	10

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37	Ligand complex structures of l â€amino acid oxidase/monooxygenase from Pseudomonas sp. AIU 813 and its conformational change. FEBS Open Bio, 2018, 8, 314-324.	2.3	11
38	Hydroxynitrile lyases from cyanogenic millipedes: molecular cloning, heterologous expression, and whole-cell biocatalysis for the production of (R)-mandelonitrile. Scientific Reports, 2018, 8, 3051.	3.3	14
39	Strategies to increase the potential use of oleaginous microalgae as biodiesel feedstocks: Nutrient starvations and cost-effective harvesting process. Renewable Energy, 2018, 122, 507-516.	8.9	60
40	Characterization of two carbonyl reductases from Ogataea polymorpha NBRC 0799. Applied Microbiology and Biotechnology, 2018, 102, 1307-1316.	3.6	0
41	Biocatalytic Synthesis of Nitriles through Dehydration of Aldoximes: The Substrate Scope of Aldoxime Dehydratases. ChemBioChem, 2018, 19, 768-779.	2.6	43
42	Isolation of indigenous antagonistic microorganism to inhibit Rigidoporus microporus and other plant pathogens and analysis of the bioactive compounds. Biological Control, 2018, 124, 53-60.	3.0	8
43	The crystal structure and catalytic mechanism of hydroxynitrile lyase from passion fruit, Passiflora edulis. FEBS Journal, 2018, 285, 313-324.	4.7	12
44	Photoautotrophic cultivation of oleaginous microalgae and co-pelletization with filamentous fungi for cost-effective harvesting process and improved lipid yield. Aquaculture International, 2018, 26, 1493-1509.	2.2	26
45	Benchmark Analysis of Native and Artificial NAD⁺-Dependent Enzymes Generated by a Sequence-Based Design Method with or without Phylogenetic Data. Biochemistry, 2018, 57, 3722-3732.	2.5	18
46	Expansion of the Substrate Specificity of Porcine Kidney Dâ€Amino Acid Oxidase for Sâ€Stereoselective Oxidation of 4â€Clâ€Benzhydrylamine. ChemCatChem, 2018, 10, 3500-3505.	3.7	16
47	Protein engineering for improving the thermostability of tryptophan oxidase and insights from structural analysis. Journal of Biochemistry, 2018, 164, 359-367.	1.7	12
48	Prunasin production using engineered Escherichia coli expressing UGT85A47 from Japanese apricot and UDP-glucose biosynthetic enzyme genes. Bioscience, Biotechnology and Biochemistry, 2018, 82, 2021-2029.	1.3	7
49	Generation of (2-Nitroethyl)benzene and related benzenoids from L-Phenylalanine; flower scents of the Japanese Loquat Eriobotrya japonica [Rosales: Rosaceae]. Bioscience, Biotechnology and Biochemistry, 2018, 82, 1855-1866.	1.3	6
50	Characterization of a novel hydroxynitrile lyase from Nandina domestica Thunb. Bioscience, Biotechnology and Biochemistry, 2018, 82, 1760-1769.	1.3	7
51	Identification of saturated and unsaturated 1-methoxyalkanes from the Thai millipede Orthomorpha communis as potential â€œRaincoat Compoundsâ€• Scientific Reports, 2018, 8, 11730.	3.3	2
52	Biosynthesis of (2-nitroethyl)benzene and (<i>Z</i>)- and (<i>E</i>)-(2-nitroethenyl)benzenes from (<i>Z</i>)- and (<i>E</i>)-phenylacetaldoximes and phenylacetonitrile; defense allomone of <i>Eutrichodesmus elegans</i> and <i>Eutrichodesmus armatus</i> (Polydesmida:) Tj ETQq0 0 0 rgBT /Overlock 10	1.4	1
53	How to design artificial protein surpassing native enzyme function ~ Design and multidisciplinary analysis of artificial Lâ€threonine 3â€dehydrogenase ~. FASEB Journal, 2018, 32, 798.4.	0.5	0
54	Discovery of novel monomeric Lâ€threonine 3â€dehydrogenase and elucidation of product release mechanism. FASEB Journal, 2018, 32, 796.14.	0.5	0

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55	Kemp Elimination Catalyzed by Naturally Occurring Aldoxime Dehydratases. ChemBioChem, 2017, 18, 451-454.	2.6	31
56	Hydrogen peroxide as a new defensive compound in â€œbenzoyl cyanideâ€•producing polydesmid millipedes. Die Naturwissenschaften, 2017, 104, 19.	1.6	9
57	Characterization and gene cloning of l-xylulose reductase involved in l-arabinose catabolism from the pentose-fermenting fungus Rhizomucor pusillus. Bioscience, Biotechnology and Biochemistry, 2017, 81, 1612-1618.	1.3	1
58	Purification and Characterization of an Enone Reductase from Sporidiobolus salmonicolor TPU 2001 Reacting with Large Monocyclic Enones. ChemCatChem, 2017, 9, 3697-3704.	3.7	5
59	1-Phenyl-2-pentanone and methyl salicylate: new defense allomone components and their content shift during ontogenetic development of the millipede Nedyopus tambanus mangaesinus (Polydesmida:) Tj ETQq1 1 0.784314 rgBT /Overlock	3.4	
60	Genome Sequence of Microbacterium sp. Strain TPU 3598, a Lumichrome Producer. Genome Announcements, 2017, 5, .	0.8	1
61	A novel cytochrome P450, <scp>CYP</scp>3201B1, is involved in (R)â€mandelonitrile biosynthesis in a cyanogenic millipede. FEBS Open Bio, 2017, 7, 335-347.	2.3	26
62	Translation-dependent bioassay for amino acid quantification using auxotrophic microbes as biocatalysts of protein synthesis. Applied Microbiology and Biotechnology, 2017, 101, 2523-2531.	3.6	1
63	Effect of Glycosylation on the Biocatalytic Properties of Hydroxynitrile Lyase from the Passion Fruit, Passiflora edulis: A Comparison of Natural and Recombinant Enzymes. ChemBioChem, 2017, 18, 257-265.	2.6	12
64	Engineering an ATP-dependent d-Ala:d-Ala ligase for synthesizing amino acid amides from amino acids. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 667-675.	3.0	2
65	Product Release Mechanism Associated with Structural Changes in Monomeric l-Threonine 3-Dehydrogenase. Biochemistry, 2017, 56, 5758-5770.	2.5	11
66	Isolation and characterization of racemase from Ensifer sp. 23-3 that acts on Î±-aminolactams and Î±-amino acid amides. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 1503-1510.	3.0	0
67	Rational identification of aggregation hotspots based on secondary structure and amino acid hydrophobicity. Scientific Reports, 2017, 7, 9558.	3.3	22
68	Cyanideâ€free and Broadly Applicable Enantioselective Synthetic Platform for Chiral Nitriles through a Biocatalytic Approach. Angewandte Chemie - International Edition, 2017, 56, 12361-12366.	13.8	60
69	Cyanidâ€freie und breit anwendbare enantioselektive Syntheseplattform fÃ¼r chirale Nitrile durch einen biokatalytischen Zugang. Angewandte Chemie, 2017, 129, 12533-12538.	2.0	18
70	Purification and characterization of xylitol dehydrogenase with l-arabitol dehydrogenase activity from the newly isolated pentose-fermenting yeast Meyerozyma caribbica 5XY2. Journal of Bioscience and Bioengineering, 2017, 123, 20-27.	2.2	24
71	Characterization of an Î±-amino-É›-caprolactam racemase with broad substrate specificity from Citreicella sp. SE45. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 677-685.	3.0	2
72	New enzymatic methods for the synthesis of primary Î±-aminonitriles and unnatural Î±-amino acids by oxidative cyanation of primary amines with<scp>d</scp>-amino acid oxidase from porcine kidney. Green Chemistry, 2017, 19, 418-424.	9.0	27

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73	Enzymes in the Aldoximeâ€“Nitrile Pathway. , 2017, , 173-187.		1
74	Draft Genome Sequence of an Aldoxime Degrader, Rhodococcus sp. Strain YH3-3. Genome Announcements, 2016, 4, .	0.8	5
75	Cytochrome P450 CYP71AT96 catalyses the final step of herbivore-induced phenylacetonitrile biosynthesis in the giant knotweed, Fallopia sachalinensis. Plant Molecular Biology, 2016, 91, 229-239.	3.9	30
76	A New S-Hydroxynitrile Lyase from Baliospermum montanumâ€”Its Structure, Molecular Dynamics Simulation, and Improvement by Protein Engineering. Industrial Biotechnology, 2016, 12, 91-97.	0.8	9
77	Origin of Stereoselectivity and Substrate/Ligand Recognition in an FAD-Dependent R-Selective Amine Oxidase. Journal of Physical Chemistry B, 2016, 120, 10736-10743.	2.6	20
78	A sacrificial millipede altruistically protects its swarm using a drone blood enzyme, mandelonitrile oxidase. Scientific Reports, 2016, 6, 26998.	3.3	18
79	l -Arginine oxidase from Pseudomonas sp. TPU 7192: Characterization, gene cloning, heterologous expression, and application to l -arginine determination. Enzyme and Microbial Technology, 2016, 82, 151-157.	3.2	19
80	Structural and computational analysis of peptide recognition mechanism of class-C type penicillin binding protein, alkaline D-peptidase from Bacillus cereus DF4-B. Scientific Reports, 2015, 5, 13836.	3.3	15
81	Protein evolution analysis of S-hydroxynitrile lyase by complete sequence design utilizing the INTMSAlign software. Scientific Reports, 2015, 5, 8193.	3.3	20
82	Mutagenesis of an Asn156 Residue in a Surface Region of Sâ€Selective Hydroxynitrile Lyase from Baliospermum montanum Enhances Catalytic Efficiency and Enantioselectivity. ChemBioChem, 2015, 16, 1891-1895.	2.6	10
83	A novel S-enantioselective amidase acting on 3,3,3-trifluoro-2-hydroxy-2-methylpropanamide from Arthrobacter sp. S-2. Bioscience, Biotechnology and Biochemistry, 2015, 79, 1587-1596.	1.3	4
84	In Silico Identification for Î±-Amino-Îµ-Caprolactam Racemases by Using Information on the Structure and Function Relationship. Applied Biochemistry and Biotechnology, 2015, 176, 1303-1314.	2.9	7
85	Complete Genome Sequence of an Aldoxime Degrader, Bacillus sp. OxB-1. Genome Announcements, 2015, 3, .	0.8	6
86	Identification and characterization of d-xylose reductase involved in pentose catabolism of the zygomycetous fungus Rhizomucor pusillus. Journal of Bioscience and Bioengineering, 2015, 119, 57-64.	2.2	12
87	New enzymatic methods for selective assay of l-lysine using an l-lysine specific decarboxylase/oxidase from Burkholderia sp. AIU 395. Journal of Bioscience and Bioengineering, 2015, 119, 369-374.	2.2	7
88	Enhancement of stability of l-tryptophan dehydrogenase from Nostoc punctiforme ATCC29133 and its application to l-tryptophan assay. Journal of Biotechnology, 2015, 196-197, 27-32.	3.8	6
89	Heterologous production of <scp>l</scp>-lysine Îµ-oxidase by directed evolution using a fusion reporter method. Bioscience, Biotechnology and Biochemistry, 2015, 79, 1473-1480.	1.3	5
90	Characterization of two amine oxidases from Aspergillus carbonarius AIU 205. Journal of Bioscience and Bioengineering, 2015, 119, 629-635.	2.2	11

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91	Efficient Production of Lumichrome by Microbacterium sp. Strain TPU 3598. Applied and Environmental Microbiology, 2015, 81, 7360-7367.	3.1	18
92	Discovery and molecular and biocatalytic properties of hydroxynitrile lyase from an invasive millipede,Chamberlinius hualienensis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10605-10610.	7.1	53
93	Chemical Polymorphism in Defense Secretions during Ontogenetic Development of the Millipede Niponia nodulosa. Journal of Chemical Ecology, 2015, 41, 15-21.	1.8	18
94	Binding of NAD+ and l-Threonine Induces Stepwise Structural and Flexibility Changes in Cupriavidus necator l-Threonine Dehydrogenase. Journal of Biological Chemistry, 2014, 289, 10445-10454.	3.4	18
95	Cyanideâ€free Enantioselective Synthesis of Nitriles: Synthetic Proof of a Biocatalytic Concept and Mechanistic Insights. ChemCatChem, 2014, 6, 3105-3109.	3.7	36
96	Identification and characterization of<scp>d</scp>-xylulokinase from the<scp>d</scp>-xylose-fermenting fungus,Mucor circinelloides. FEMS Microbiology Letters, 2014, 360, 51-61.	1.8	10
97	Rapid and selective enzymatic assay for l-methionine based on a pyrophosphate detection system. Analytical Biochemistry, 2014, 447, 33-38.	2.4	17
98	Tailoring <scp>D</scp>â€Amino Acid Oxidase from the Pig Kidney to Râ€Stereoselective Amine Oxidase and its Use in the Deracemization of Î±â€Methylbenzylamine. Angewandte Chemie - International Edition, 2014, 53, 4428-4431.	13.8	70
99	Molecular analysis of NAD+-dependent xylitol dehydrogenase from the zygomycetous fungus Rhizomucor pusillus and reversal of the coenzyme preference. Bioscience, Biotechnology and Biochemistry, 2014, 78, 1943-1953.	1.3	5
100	(2-Nitroethyl)benzene: a major flower scent from the Japanese loquat Eriobotrya japonica [Rosales: Rosaceae]. Bioscience, Biotechnology and Biochemistry, 2014, 78, 1320-1323.	1.3	14
101	Biosynthetic Pathway for the Cyanide-Free Production of Phenylacetonitrile in Escherichia coli by Utilizing Plant Cytochrome P450 79A2 and Bacterial Aldoxime Dehydratase. Applied and Environmental Microbiology, 2014, 80, 6828-6836.	3.1	26
102	Identification and characterization of CYP79D16 and CYP71AN24 catalyzing the first and second steps in l-phenylalanine-derived cyanogenic glycoside biosynthesis in the Japanese apricot, Prunus mume Sieb. et Zucc.. Plant Molecular Biology, 2014, 86, 215-223.	3.9	63
103	Efficient preparation of both enantiomers of 3,3,3-trifluoro-2-hydroxy-2-methylpropanoic acid catalyzed by Shinella sp. R-6 and Arthrobacter sp. S-2. Journal of Molecular Catalysis B: Enzymatic, 2014, 102, 115-119.	1.8	4
104	Structural and functional analysis of hydroxynitrile lyase from Baliospermum montanum with crystal structure, molecular dynamics and enzyme kinetics. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 2059-2067.	2.3	19
105	Mutational and crystallographic analysis of <scp>l</scp>â€amino acid oxidase/monooxygenase from Pseudomonas sp. AIU 813: Interconversion between oxidase and monooxygenase activities. FEBS Open Bio, 2014, 4, 220-228.	2.3	18
106	Preparation of d-Î±-aminolactams by l-enantioselective degradation of Î±-aminolactam mediated by Mesorhizobium sp. L88. Biocatalysis and Agricultural Biotechnology, 2014, 3, 42-47.	3.1	2
107	Rapid enzymatic assays for l-citrulline and l-arginine based on the platform of pyrophosphate detection. Enzyme and Microbial Technology, 2014, 57, 36-41.	3.2	20
108	Characterization and application of aminoamide-oxidizing enzyme from Aspergillus carbonarius AIU 205. Journal of Bioscience and Bioengineering, 2014, 117, 263-268.	2.2	10

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109	Characterization of a pyridoxal-5â€²-phosphate-dependent l-lysine decarboxylase/oxidase from Burkholderia sp. AIU 395. Journal of Bioscience and Bioengineering, 2014, 118, 496-501.	2.2	17
110	Selective tryptophan determination using tryptophan oxidases involved in bis-indole antibiotic biosynthesis. Analytical Biochemistry, 2013, 438, 124-132.	2.4	25
111	X-Ray crystallographic evidence for the presence of the cysteine tryptophylquinone cofactor in l-lysine Îµ-oxidase from Marinomonas mediterranea. Journal of Biochemistry, 2013, 154, 233-236.	1.7	32
112	d-Stereospecific Aminopeptidase. , 2013, , 3463-3467.		0
113	Alkaline d-Peptidase. , 2013, , 3467-3469.		0
114	TransFatty Acid Intake and Serum Cholesterol Levels in Young Japanese Women. Bioscience, Biotechnology and Biochemistry, 2012, 76, 1627-1632.	1.3	10
115	Synthesis of optically active medium-sized Î±-aminolactams via ring-closing metathesis. Tetrahedron, 2012, 68, 6651-6655.	1.9	9
116	A simple assay of taurine concentrations in food and biological samples using taurine dioxygenase. Analytical Biochemistry, 2012, 427, 121-123.	2.4	10
117	Determination of l-methionine using methionine-specific dehydrogenase for diagnosis of homocystinuria due to cystathionine Î²-synthase deficiency. Analytical Biochemistry, 2012, 428, 143-149.	2.4	18
118	Purification and characterization of an l-amino acid oxidase from Pseudomonas sp. AIU 813. Journal of Bioscience and Bioengineering, 2012, 114, 257-261.	2.2	23
119	Introduction - Principles and Historical Landmarks of Enzyme Catalysis in Organic Synthesis. , 2012, , 1-42.		16
120	Enzymatic Synthesis of Chiral Phenylalanine Derivatives by a Dynamic Kinetic Resolution of Corresponding Amide and Nitrile Substrates with a Multiâ€Enzyme System. Advanced Synthesis and Catalysis, 2012, 354, 3327-3332.	4.3	40
121	Effects of the Treatments with the Peptides Extracted from Human Hairs on the Physical Properties of Bleached Human Hairs. Journal of Fiber Science and Technology, 2012, 68, 14-17.	0.0	0
122	Strategies for discovery and improvement of enzyme function: state of the art and opportunities. Microbial Biotechnology, 2012, 5, 18-33.	4.2	49
123	Enzymes Acting on d-Amino Acid Containing Peptides. Methods in Molecular Biology, 2012, 794, 397-406.	0.9	2
124	Organic Synthesis Catalyzed by Plant Enzyme Hydroxynitrile Lyase. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2012, 70, 102-112.	0.1	0
125	Aldoxime Dehydratase: Probing the Heme Environment Involved in the Synthesis of the Carbonâ€“Nitrogen Triple Bond. Journal of Physical Chemistry B, 2011, 115, 13012-13018.	2.6	15
126	Hydroxynitrile Lyases: Insights into Biochemistry, Discovery, and Engineering. ACS Catalysis, 2011, 1, 1121-1149.	11.2	105

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127	Comparative expression of wild-type and highly soluble mutant His103Leu of hydroxynitrile lyase from Manihot esculenta in prokaryotic and eukaryotic expression systems. Protein Expression and Purification, 2011, 77, 92-97.	1.3	13
128	Dynamic Kinetic Resolution of Î±â€Aminonitriles to Form Chiral Î±â€Amino Acids. Advanced Synthesis and Catalysis, 2011, 353, 2328-2332.	4.3	36
129	Highly selective l-threonine 3-dehydrogenase from Cupriavidus necator and its use in determination of l-threonine. Analytical Biochemistry, 2011, 410, 44-56.	2.4	21
130	S-selective hydroxynitrile lyase from a plant Baliospermum montanum: Molecular characterization of recombinant enzyme. Journal of Biotechnology, 2011, 153, 100-110.	3.8	38
131	Synthesis of (R)-Î²-nitro alcohols catalyzed by R-selective hydroxynitrile lyase from Arabidopsis thaliana in the aqueousâ€“organic biphasic system. Journal of Biotechnology, 2011, 153, 153-159.	3.8	54
132	Characterization of a New (R)-Hydroxynitrile Lyase from the Japanese ApricotPrunus mumeand cDNA Cloning and Secretory Expression of One of the Isozymes inPichia pastoris. Bioscience, Biotechnology and Biochemistry, 2011, 75, 214-220.	1.3	26
133	Functional expression of a plant hydroxynitrile lyase in Escherichia coli by directed evolution: creation and characterization of highly in vivo soluble mutants. Protein Engineering, Design and Selection, 2011, 24, 607-616.	2.1	31
134	Hydroxynitrile lyase from Passiflora edulis: Purification, characteristics and application in asymmetric synthesis of (R)-mandelonitrile. Enzyme and Microbial Technology, 2010, 46, 456-465.	3.2	40
135	Determination of plasma and serum l-lysine using l-lysine Îµ-oxidase from Marinomonas mediterranea NBRC 103028T. Analytical Biochemistry, 2010, 406, 19-23.	2.4	21
136	A new aryl acylamidase from Rhodococcus sp. strain Oct1 acting on Ï‰-lactams: Its characterization and gene expression in Escherichia coli. Enzyme and Microbial Technology, 2010, 46, 237-245.	3.2	19
137	A Simple Enzymatic Method for Production of a Wide Variety of <scp>D</scp>-Amino Acids Using <scp>L</scp>-Amino Acid Oxidase from Rhodococcus sp. AIU Z-35-1. Enzyme Research, 2010, 2010, 1-6.	1.8	19
138	X-ray Crystal Structure of Michaelis Complex of Aldoxime Dehydratase. Journal of Biological Chemistry, 2009, 284, 32089-32096.	3.4	55
139	Parameters influencing asymmetric synthesis of (R)-mandelonitrile by a novel (R)-hydroxynitrile lyase from Eriobotrya japonica. Journal of Molecular Catalysis B: Enzymatic, 2009, 56, 208-214.	1.8	20
140	Screening, purification, and identification of the enzyme producing N-(l-Î±-l-aspartyl)-l-phenylalanine methyl ester from l-isoasparagine and l-phenylalanine methyl ester. Journal of Bioscience and Bioengineering, 2009, 108, 190-193.	2.2	1
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