

# Yasuhisa Asano

## List of Publications by Year in descending order

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61984

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292  
docs citations

292  
times ranked

3334  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new enzyme "Nitrile hydratase" which degrades acetonitrile in combination with amidase.. Agricultural and Biological Chemistry, 1980, 44, 2251-2252.	0.3	139
2	Aliphatic nitrile hydratase from <i>Arthrobacter</i> sp. J-1 purification and characterization.. Agricultural and Biological Chemistry, 1982, 46, 1165-1174.	0.3	132
3	A new enzymatic method of acrylamide production.. Agricultural and Biological Chemistry, 1982, 46, 1183-1189.	0.3	132
4	Novel Heme-Containing Lyase, Phenylacetaldoxime Dehydratase from <i>Bacillus</i> sp. Strain OxB-1: Purification, Characterization, and Molecular Cloning of the Gene. Biochemistry, 2000, 39, 800-809.	2.5	114
5	Purification and Characterization of Benzonitrilases from <i>Arthrobacter</i> sp. Strain J-1. Applied and Environmental Microbiology, 1986, 51, 302-306.	3.1	112
6	Overview of screening for new microbial catalysts and their uses in organic synthesis—selection and optimization of biocatalysts. Journal of Biotechnology, 2002, 94, 65-72.	3.8	108
7	Hydroxynitrile Lyases: Insights into Biochemistry, Discovery, and Engineering. ACS Catalysis, 2011, 1, 1121-1149.	11.2	105
8	Enantioselective synthesis of (S)-amino acids by phenylalanine dehydrogenase from <i>Bacillus sphaericus</i> : use of natural and recombinant enzymes. Journal of Organic Chemistry, 1990, 55, 5567-5571.	3.2	91
9	Purification and characterization of amidase which participates in nitrile degradation.. Agricultural and Biological Chemistry, 1982, 46, 1175-1181.	0.3	88
10	Distribution of Aldoxime Dehydratase in Microorganisms. Applied and Environmental Microbiology, 2000, 66, 2290-2296.	3.1	83
11	A New Enzymatic Method of Acrylamide Production. Agricultural and Biological Chemistry, 1982, 46, 1183-1189.	0.3	80
12	Dynamic Kinetic Resolution of Amino Acid Amide Catalyzed by D-Amino-peptidase and L-Amino-μ-caprolactam Racemase. Journal of the American Chemical Society, 2005, 127, 7696-7697.	13.7	75
13	Gene cloning, nucleotide sequencing, and purification and characterization of the D-stereospecific amino-acid amidase from <i>Ochrobactrum anthropi</i> SV3. FEBS Journal, 2000, 267, 2028-2035.	0.2	73
14	A new (R)-hydroxynitrile lyase from <i>Prunus mume</i> : asymmetric synthesis of cyanohydrins. Tetrahedron, 2005, 61, 10908-10916.	1.9	73
15	Phenylalanine dehydrogenase of <i>Bacillus badius</i> . Purification, characterization and gene cloning. FEBS Journal, 1987, 168, 153-159.	0.2	72
16	Structural similarity of D-amino-peptidase to carboxypeptidase DD and β-lactamases. Biochemistry, 1992, 31, 2316-2328.	2.5	72
17	Z-phenylacetaldoxime degradation by a novel aldoxime dehydratase from <i>Bacillus</i> sp. strain OxB-1. FEMS Microbiology Letters, 1998, 158, 185-190.	1.8	71
18	Screening for New Hydroxynitrilases from Plants. Bioscience, Biotechnology and Biochemistry, 2005, 69, 2349-2357.	1.3	71

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19	Tailoring <sc>D</sc>-Amino Acid Oxidase from the Pig Kidney to <i>R</i>-Stereoselective Amine Oxidase and its Use in the Deracemization of $\pm$ -Methylbenzylamine. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4428-4431.	13.8	70
20	A Gene Cluster Responsible for Alkylaldoxime Metabolism Coexisting with Nitrile Hydratase and Amidase in <i>Rhodococcus globulus</i> A-4. <i>Biochemistry</i> , 2003, 42, 12056-12066.	2.5	67
21	A New Enzyme -Nitrile Hydratase-which Degrades Acetonitrile in Combination with Amidase. <i>Agricultural and Biological Chemistry</i> , 1980, 44, 2251-2252.	0.3	63
22	A new enzymatic method of nitrile synthesis by <i>Rhodococcus</i> sp. strain YH3-3. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1999, 6, 249-256.	1.8	63
23	Phosphorylation of Nucleosides by the Mutated Acid Phosphatase from <i>Morganella morganii</i>. <i>Applied and Environmental Microbiology</i> , 2000, 66, 2811-2816.	3.1	63
24	Identification and characterization of CYP79D16 and CYP71AN24 catalyzing the first and second steps in l-phenylalanine-derived cyanogenic glycoside biosynthesis in the Japanese apricot, <i>Prunus mume</i> Sieb. et Zucc.. <i>Plant Molecular Biology</i> , 2014, 86, 215-223.	3.9	63
25	A new D-stereospecific amino acid amidase from <i>Ochrobactrum anthropi</i> . <i>Biochemical and Biophysical Research Communications</i> , 1989, 162, 470-474.	2.1	62
26	Enzymes acting on peptides containing d-amino acid. <i>Journal of Bioscience and Bioengineering</i> , 2000, 89, 295-306.	2.2	60
27	Cyanide-Free and Broadly Applicable Enantioselective Synthetic Platform for Chiral Nitriles through a Biocatalytic Approach. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12361-12366.	13.8	60
28	Strategies to increase the potential use of oleaginous microalgae as biodiesel feedstocks: Nutrient starvations and cost-effective harvesting process. <i>Renewable Energy</i> , 2018, 122, 507-516.	8.9	60
29	Aliphatic Nitrile Hydratase from <i>Arthrobacter</i> sp. J-1 Purification and Characterization. <i>Agricultural and Biological Chemistry</i> , 1982, 46, 1165-1174.	0.3	58
30	Microbial Production of Theobromine from Caffeine. <i>Bioscience, Biotechnology and Biochemistry</i> , 1993, 57, 1286-1289.	1.3	58
31	An Alkaline D-Stereospecific Endopeptidase with $\beta^2$ -Lactamase Activity from <i>Bacillus cereus</i> . <i>Journal of Biological Chemistry</i> , 1996, 271, 30256-30262.	3.4	57
32	Aldoxime dehydratase co-existing with nitrile hydratase and amidase in the iron-type nitrile hydratase-producer <i>Rhodococcus</i> sp. N-771. <i>Journal of Bioscience and Bioengineering</i> , 2004, 97, 250-259.	2.2	55
33	New Enzymatic Method of Chiral Amino Acid Synthesis by Dynamic Kinetic Resolution of Amino Acid Amides: Use of Stereoselective Amino Acid Amidases in the Presence of $\pm$ -Amino- $\mu$ -Caprolactam Racemase. <i>Applied and Environmental Microbiology</i> , 2007, 73, 5370-5373.	3.1	55
34	X-ray Crystal Structure of Michaelis Complex of Aldoxime Dehydratase. <i>Journal of Biological Chemistry</i> , 2009, 284, 32089-32096.	3.4	55
35	High Yield Synthesis of Nitriles by a New Enzyme, Phenylacetaldoxime Dehydratase, from <i>Bacillus</i> sp. Strain OxB-1. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 2666-2672.	1.3	54
36	Synthesis of (R)- $\beta^2$ -nitro alcohols catalyzed by R-selective hydroxynitrile lyase from <i>Arabidopsis thaliana</i> in the aqueous-organic biphasic system. <i>Journal of Biotechnology</i> , 2011, 153, 153-159.	3.8	54

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37	Discovery and molecular and biocatalytic properties of hydroxynitrile lyase from an invasive millipede, <i>Chamberlinius hualienensis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10605-10610.	7.1	53
38	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
39	Nitrile hydratase involved in aldoxime metabolism from <i>Rhodococcus</i> sp. strain YH3-3 . Purification and characterization. FEBS Journal, 1999, 263, 662-670.	0.2	49
40	Strategies for discovery and improvement of enzyme function: state of the art and opportunities. Microbial Biotechnology, 2012, 5, 18-33.	4.2	49
41	A novel R-stereoselective amidase from <i>Pseudomonas</i> sp. MCI3434 acting on piperazine-2-tert-butylcarboxamide. FEBS Journal, 2004, 271, 1580-1590.	0.2	47
42	A new enzymatic method of selective phosphorylation of nucleosides. Journal of Molecular Catalysis B: Enzymatic, 1999, 6, 271-277.	1.8	46
43	Biocatalytic Synthesis of Nitriles through Dehydration of Aldoximes: The Substrate Scope of Aldoxime Dehydratases. ChemBioChem, 2018, 19, 768-779.	2.6	43
44	Hydroxynitrile lyase from <i>Passiflora edulis</i> : Purification, characteristics and application in asymmetric synthesis of (R)-mandelonitrile. Enzyme and Microbial Technology, 2010, 46, 456-465.	3.2	40
45	Enzymatic Synthesis of Chiral Phenylalanine Derivatives by a Dynamic Kinetic Resolution of Corresponding Amide and Nitrile Substrates with a Multi-Enzyme System. Advanced Synthesis and Catalysis, 2012, 354, 3327-3332.	4.3	40
46	First stereoselective synthesis of D-amino acid N-alkyl amide catalyzed by D-aminopeptidase. Tetrahedron, 1989, 45, 5743-5754.	1.9	38
47	Covalent immobilization of phenylalanine dehydrogenase on cellulose membrane for biosensor construction. Sensors and Actuators B: Chemical, 2008, 129, 195-199.	7.8	38
48	S-selective hydroxynitrile lyase from a plant <i>Baliospermum montanum</i> : Molecular characterization of recombinant enzyme. Journal of Biotechnology, 2011, 153, 100-110.	3.8	38
49	A novel selective nucleoside phosphorylating enzyme from <i>Morganella morganii</i> . Journal of Bioscience and Bioengineering, 1999, 87, 732-738.	2.2	37
50	Regulation of Aldoxime Dehydratase Activity by Redox-dependent Change in the Coordination Structure of the Aldoxime-Heme Complex. Journal of Biological Chemistry, 2005, 280, 5486-5490.	3.4	37
51	New thermostable d-methionine amidase from <i>Brevibacillus borstelensis</i> BCS-1 and its application for d-phenylalanine production. Enzyme and Microbial Technology, 2003, 32, 131-139.	3.2	36
52	Dynamic Kinetic Resolution of $\alpha$ -Aminonitriles to Form Chiral $\alpha$ -Amino Acids. Advanced Synthesis and Catalysis, 2011, 353, 2328-2332.	4.3	36
53	Cyanide-free Enantioselective Synthesis of Nitriles: Synthetic Proof of a Biocatalytic Concept and Mechanistic Insights. ChemCatChem, 2014, 6, 3105-3109.	3.7	36
54	Enzymes Involved in Theobromine Production from Caffeine by <i>Pseudomonas putida</i> No. 352. Bioscience, Biotechnology and Biochemistry, 1994, 58, 2303-2304.	1.3	35

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55	Lipase-mediated desymmetrization of glycerol with aromatic and aliphatic anhydrides. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 3551-3559.	1.8	35
56	Molecular and enzymatic analysis of the "aldoxime" nitrile pathway in the glutaronitrile degrader <i>Pseudomonas</i> sp. K-9. <i>Applied Microbiology and Biotechnology</i> , 2006, 70, 92-101.	3.6	35
57	Two Distinct Quinoprotein Amine Oxidases are Induced by n-Butylamine in the Mycelia of <i>Aspergillus niger</i> AKU 3302. Purification, Characterization, cDNA Cloning and Sequencing. <i>FEBS Journal</i> , 1996, 237, 255-265.	0.2	33
58	Efficient preparation of (R)- $\alpha$ -monobenzoyl glycerol by lipase catalyzed asymmetric esterification: Optimization and operation in packed bed reactor. <i>Biotechnology and Bioengineering</i> , 2001, 73, 493-499.	3.3	33
59	Single Amino Acid Substitution in <i>Bacillus sphaericus</i> Phenylalanine Dehydrogenase Dramatically Increases Its Discrimination between Phenylalanine and Tyrosine Substrates. <i>Biochemistry</i> , 2002, 41, 11390-11397.	2.5	33
60	Stereoselective synthesis of opine-type secondary amine carboxylic acids by a new enzyme opine dehydrogenase use of recombinant enzymes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1996, 1, 151-160.	1.8	32
61	X-Ray crystallographic evidence for the presence of the cysteine tryptophylquinone cofactor in l-lysine $\beta$ -oxidase from <i>Marinomonas mediterranea</i> . <i>Journal of Biochemistry</i> , 2013, 154, 233-236.	1.7	32
62	Alteration in relative activities of phenylalanine dehydrogenase towards different substrates by site-directed mutagenesis. <i>FEBS Letters</i> , 1995, 370, 93-96.	2.8	31
63	Quantitation of L-Amino Acids by Substrate Recycling between an Aminotransferase and a Dehydrogenase: Application to the Determination of L-Phenylalanine in Human Blood. <i>Analytical Biochemistry</i> , 1996, 234, 19-22.	2.4	31
64	Application of an enzyme chip to the microquantification of l-phenylalanine. <i>Analytical Biochemistry</i> , 2006, 359, 72-78.	2.4	31
65	Purification and Characterization of A Novel (<i>R</i>)-Hydroxynitrile Lyase from <i>Eriobotrya japonica</i> (Loquat). <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 1513-1522.	1.3	31
66	Functional expression of a plant hydroxynitrile lyase in <i>Escherichia coli</i> by directed evolution: creation and characterization of highly in vivo soluble mutants. <i>Protein Engineering, Design and Selection</i> , 2011, 24, 607-616.	2.1	31
67	Kemp Elimination Catalyzed by Naturally Occurring Aldoxime Dehydratases. <i>ChemBioChem</i> , 2017, 18, 451-454.	2.6	31
68	Enhancement of the thermostability and catalytic activity of d-stereospecific amino-acid amidase from <i>Ochrobactrum anthropi</i> SV3 by directed evolution. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003, 21, 283-290.	1.8	30
69	The Novel Structure of a Pyridoxal 5'-Phosphate-Dependent Fold-Type I Racemase, $\beta$ -Amino- $\beta$ -caprolactam Racemase from <i>Achromobacter obae</i> ., <i>Biochemistry</i> , 2009, 48, 941-950.	2.5	30
70	Cytochrome P450 CYP71AT96 catalyses the final step of herbivore-induced phenylacetone nitrile biosynthesis in the giant knotweed, <i>Fallopia sachalinensis</i> . <i>Plant Molecular Biology</i> , 2016, 91, 229-239.	3.9	30
71	Purification and Characterization of Aldoxime Dehydratase of the Head Blight Fungus, <i>Fusarium graminearum</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2005, 69, 2254-2257.	1.3	29
72	Crystal Structure and Functional Characterization of a D-Stereospecific Amino Acid Amidase from <i>Ochrobactrum anthropi</i> SV3, a New Member of the Penicillin-recognizing Proteins. <i>Journal of Molecular Biology</i> , 2007, 368, 79-91.	4.2	29

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73	Synthesis of D-Alanine Oligopeptides Catalyzed by D-Aminopeptidase in Non-Aqueous Media. <i>Biocatalysis</i> , 1990, 3, 207-215.	0.9	28
74	Activation and cytotoxicity of 2- $\beta$ -aminoacyl prodrugs of methotrexate. <i>Biochemical Pharmacology</i> , 1995, 49, 567-574.	4.4	28
75	Enhancement of nucleoside phosphorylation activity in an acid phosphatase. <i>Protein Engineering, Design and Selection</i> , 2002, 15, 539-543.	2.1	28
76	High-level expression of a novel FMN-dependent heme-containing lyase, phenylacetaldoxime dehydratase of <i>Bacillus</i> sp. strain OxB-1, in heterologous hosts. <i>Protein Expression and Purification</i> , 2003, 28, 131-139.	1.3	28
77	Discovery of amino acid amides as new substrates for $\beta$ -amino- $\epsilon$ -caprolactam racemase from <i>Achromobacter obae</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 36, 22-29.	1.8	28
78	Alteration of substrate specificity of aspartase by directed evolution. <i>New Biotechnology</i> , 2005, 22, 95-101.	2.7	28
79	Synthesis of optically active $\beta$ -monobenzoyl glycerol by asymmetric transesterification of glycerol. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2000, 9, 193-200.	1.8	27
80	PmHNL catalyzed synthesis of (R)-cyanohydrins derived from aliphatic aldehydes. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 735-741.	1.8	27
81	New enzymatic methods for the synthesis of primary $\beta$ -aminonitriles and unnatural $\beta$ -amino acids by oxidative cyanation of primary amines with $\beta$ -amino acid oxidase from porcine kidney. <i>Green Chemistry</i> , 2017, 19, 418-424.	9.0	27
82	High yield synthesis of L-amino acids by phenylalanine dehydrogenase from <i>Sporosarcina ureae</i> . <i>Agricultural and Biological Chemistry</i> , 1987, 51, 2035-2036.	0.3	26
83	Characterization of a New ( $\beta$ )-Hydroxynitrile Lyase from the Japanese Apricot <i>Prunus mume</i> and cDNA Cloning and Secretory Expression of One of the Isozymes in <i>Pichia pastoris</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 214-220.	1.3	26
84	Biosynthetic Pathway for the Cyanide-Free Production of Phenylacetone in <i>Escherichia coli</i> by Utilizing Plant Cytochrome P450 79A2 and Bacterial Aldoxime Dehydratase. <i>Applied and Environmental Microbiology</i> , 2014, 80, 6828-6836.	3.1	26
85	A novel cytochrome P450, $\beta$ -CYP3201B1, is involved in ( $\beta$ )-mandelonitrile biosynthesis in a cyanogenic millipede. <i>FEBS Open Bio</i> , 2017, 7, 335-347.	2.3	26
86	Photoautotrophic cultivation of oleaginous microalgae and co-pelletization with filamentous fungi for cost-effective harvesting process and improved lipid yield. <i>Aquaculture International</i> , 2018, 26, 1493-1509.	2.2	26
87	Structure and Function of Amino Acid Ammonia-lyases. <i>Biocatalysis and Biotransformation</i> , 2004, 22, 133-140.	2.0	25
88	A DmpA-homologous protein from <i>Pseudomonas</i> sp. is a dipeptidase specific for $\beta$ -alanyl dipeptides. <i>FEBS Journal</i> , 2005, 272, 3075-3084.	4.7	25
89	L-Stereoselective amino acid amidase with broad substrate specificity from <i>Brevundimonas diminuta</i> : characterization of a new member of the leucine aminopeptidase family. <i>Applied Microbiology and Biotechnology</i> , 2006, 70, 412-421.	3.6	25
90	Supramolecular-mediated immobilization of L-phenylalanine dehydrogenase on cyclodextrin-coated Au electrodes for biosensor applications. <i>Biotechnology Letters</i> , 2007, 29, 447-452.	2.2	25

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91	Selective tryptophan determination using tryptophan oxidases involved in bis-indole antibiotic biosynthesis. <i>Analytical Biochemistry</i> , 2013, 438, 124-132.	2.4	25
92	Catechol 2,3-Dioxygenase-catalyzed Synthesis of Picolinic Acids from Catechols. <i>Bioscience, Biotechnology and Biochemistry</i> , 1994, 58, 2054-2056.	1.3	24
93	S-Stereoselective piperazine-2-tert-butylcarboxamide hydrolase from <i>Pseudomonas azotoformans</i> IAM 1603 is a novel l-amino acid amidase. <i>FEBS Journal</i> , 2004, 271, 1465-1475.	0.2	24
94	Purification and characterization of xylitol dehydrogenase with l-arabitol dehydrogenase activity from the newly isolated pentose-fermenting yeast <i>Meyerozyma caribbica</i> 5XY2. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 20-27.	2.2	24
95	Crystallization of phenylalanine dehydrogenase from <i>Sporosarcina ureae</i> .. <i>Agricultural and Biological Chemistry</i> , 1985, 49, 3631-3632.	0.3	23
96	Acid phosphatase/phosphotransferases from enteric bacteria. <i>Journal of Bioscience and Bioengineering</i> , 2001, 92, 50-54.	2.2	23
97	Structural-Based Engineering for Transferases to Improve the Industrial Production of 5'-Nucleotides. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 276-286.	3.2	23
98	Purification and characterization of an l-amino acid oxidase from <i>Pseudomonas</i> sp. AU 813. <i>Journal of Bioscience and Bioengineering</i> , 2012, 114, 257-261.	2.2	23
99	Rational identification of aggregation hotspots based on secondary structure and amino acid hydrophobicity. <i>Scientific Reports</i> , 2017, 7, 9558.	3.3	22
100	Identification and development of amino acid oxidases. <i>Current Opinion in Chemical Biology</i> , 2019, 49, 76-83.	6.1	22
101	Acid Phosphatase/Phosphotransferases from Enteric Bacteria.. <i>Journal of Bioscience and Bioengineering</i> , 2001, 92, 50-54.	2.2	22
102	Enzymatic cycling assay for phenylpyruvate. <i>Analytical Biochemistry</i> , 1989, 183, 210-214.	2.4	21
103	Polymerase chain reaction for identification of aldoxime dehydratase in aldoxime- or nitrile-degrading microorganisms. <i>FEMS Microbiology Letters</i> , 2005, 246, 243-249.	1.8	21
104	Supramolecular-mediated thermostabilization of phenylalanine dehydrogenase modified with $\beta$ -cyclodextrin derivatives. <i>Biochemical Engineering Journal</i> , 2006, 30, 26-32.	3.6	21
105	Purification and partial characterization of N-hydroxy-l-phenylalanine decarboxylase/oxidase from <i>Bacillus</i> sp. strain OxB-1, an enzyme involved in aldoxime biosynthesis in the "aldoxime" nitrile pathway. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 856-865.	2.3	21
106	Amino Acid Specific Proteases and Native All Proteins: A Convenient Combination for Semisynthesis. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5456-5460.	13.8	21
107	Determination of plasma and serum l-lysine using l-lysine $\beta$ -oxidase from <i>Marinomonas mediterranea</i> NBRC 103028T. <i>Analytical Biochemistry</i> , 2010, 406, 19-23.	2.4	21
108	Highly selective l-threonine 3-dehydrogenase from <i>Cupriavidus necator</i> and its use in determination of l-threonine. <i>Analytical Biochemistry</i> , 2011, 410, 44-56.	2.4	21



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109	Nucleotide Sequencing of Phenylalanine Dehydrogenase Gene from <i>Bacillus badius</i> IAM 11059. <i>Bioscience, Biotechnology and Biochemistry</i> , 1995, 59, 1994-1995.	1.3	20
110	Improving the Pyrophosphate-inosine Phosphotransferase Activity of <i>Escherichia blattae</i> Acid Phosphatase by Sequential Site-directed Mutagenesis. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 1046-1050.	1.3	20
111	Parameters influencing asymmetric synthesis of (R)-mandelonitrile by a novel (R)-hydroxynitrile lyase from <i>Eriobotrya japonica</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 56, 208-214.	1.8	20
112	Rapid enzymatic assays for L-citrulline and L-arginine based on the platform of pyrophosphate detection. <i>Enzyme and Microbial Technology</i> , 2014, 57, 36-41.	3.2	20
113	Protein evolution analysis of S-hydroxynitrile lyase by complete sequence design utilizing the INTMSAlign software. <i>Scientific Reports</i> , 2015, 5, 8193.	3.3	20
114	Origin of Stereoselectivity and Substrate/Ligand Recognition in an FAD-Dependent (R)-Selective Amine Oxidase. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10736-10743.	2.6	20
115	Recent progress on discovery and research of aldoxime dehydratases. <i>Green Synthesis and Catalysis</i> , 2021, 2, 179-186.	6.8	20
116	A novel method for preparation of optically active (1S)-monobenzoyl glycerol via lipase-catalyzed asymmetric transesterification of glycerol. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1999, 9, 3207-3210.	2.2	19
117	A new aryl acylamidase from <i>Rhodococcus</i> sp. strain Oct1 acting on (S)-lactams: Its characterization and gene expression in <i>Escherichia coli</i> . <i>Enzyme and Microbial Technology</i> , 2010, 46, 237-245.	3.2	19
118	Plasmid-based, (D)-aminopeptidase-catalysed synthesis of (R)-amino acids. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1991, 110, 206-208.	0.0	19
119	A Simple Enzymatic Method for Production of a Wide Variety of (D)-Amino Acids Using (S)-Amino Acid Oxidase from <i>Rhodococcus</i> sp. AIU Z-35-1. <i>Enzyme Research</i> , 2010, 2010, 1-6.	1.8	19
120	Structural and functional analysis of hydroxynitrile lyase from <i>Baliospermum montanum</i> with crystal structure, molecular dynamics and enzyme kinetics. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 2059-2067.	2.3	19
121	L-Arginine oxidase from <i>Pseudomonas</i> sp. TPU 7192: Characterization, gene cloning, heterologous expression, and application to L-arginine determination. <i>Enzyme and Microbial Technology</i> , 2016, 82, 151-157.	3.2	19
122	Following the Evolutionary Track of a Highly Specific (S)-Arginine Oxidase by Reconstruction and Biochemical Analysis of Ancestral and Native Enzymes. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	19
123	Synthetic Processes toward Nitriles without the Use of Cyanide: A Biocatalytic Concept Based on Dehydration of Aldoximes in Water. <i>Chemistry - A European Journal</i> , 2021, 27, 5313-5321.	3.3	19
124	Microbial degradation of nitrile compounds. Part IV. Fungal degradation of triacrylonitrile.. <i>Agricultural and Biological Chemistry</i> , 1981, 45, 57-62.	0.3	18
125	<i>Bacillus</i> phenylalanine dehydrogenase produced in <i>Escherichia coli</i> . Its purification and application to L-phenylalanine synthesis.. <i>Agricultural and Biological Chemistry</i> , 1987, 51, 2621-2623.	0.3	18
126	Purification, characterization, gene cloning and nucleotide sequencing of D-stereospecific amino acid amidase from soil bacterium: <i>Delftia acidovorans</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2005, 32, 567-576.	3.0	18



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127	Enzymatic chemoselective synthesis of secondary-amide surfactant from N-methylethanol amine. <i>Journal of Bioscience and Bioengineering</i> , 2005, 100, 662-666.	2.2	18
128	Determination of l-methionine using methionine-specific dehydrogenase for diagnosis of homocystinuria due to cystathionine $\beta$ -synthase deficiency. <i>Analytical Biochemistry</i> , 2012, 428, 143-149.	2.4	18
129	Binding of NAD <sup>+</sup> and l-Threonine Induces Stepwise Structural and Flexibility Changes in Cupriavidus necator l-Threonine Dehydrogenase. <i>Journal of Biological Chemistry</i> , 2014, 289, 10445-10454.	3.4	18
130	Mutational and crystallographic analysis of <i>Pseudomonas</i> sp. AU 813: Interconversion between oxidase and monooxygenase activities. <i>FEBS Open Bio</i> , 2014, 4, 220-228.	2.3	18
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