Yoshimitsu Hamano

List of Publications by Year
in descending order

67	1,630	304743 22	330143 37
papers	citations	h-index	g-index

69	69	69	1607
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Îµ-Poly-L-lysine dispersity is controlled by a highly unusual nonribosomal peptide synthetase. Nature Chemical Biology, 2008, 4, 766-772.	8.0	143
2	A stand-alone adenylation domain forms amide bonds in streptothricin biosynthesis. Nature Chemical Biology, 2012, 8, 791-797.	8.0	107
3	Mechanism of Îµ-Poly- <scp>l</scp> -Lysine Production and Accumulation Revealed by Identification and Analysis of an Îµ-Poly- <scp>l</scp> -Lysine-Degrading Enzyme. Applied and Environmental Microbiology, 2010, 76, 5669-5675.	3.1	106
4	Eubacterial Diterpene Cyclase Genes Essential for Production of the Isoprenoid Antibiotic Terpentecin. Journal of Bacteriology, 2001, 183, 6085-6094.	2.2	84
5	Functiona l Analysis of Eubacterial Diterpene Cyclases Responsible for Biosynthesis of a Diterpene Antibiotic, Terpentecin. Journal of Biological Chemistry, 2002, 277, 37098-37104.	3.4	82
6	Desensitization of Feedback Inhibition of the Saccharomyces cerevisiae Î³-Glutamyl Kinase Enhances Proline Accumulation and Freezing Tolerance. Applied and Environmental Microbiology, 2007, 73, 4011-4019.	3.1	69
7	Biosynthesis and Structural Revision of Neomarinone. Organic Letters, 2003, 5, 4449-4452.	4.6	61
8	A peptide ligase and the ribosome cooperate to synthesize the peptide pheganomycin. Nature Chemical Biology, 2015, 11, 71-76.	8.0	53
9	Occurrence, Biosynthesis, Biodegradation, and Industrial and Medical Applications of a Naturally Occurring Îµ-Poly-<scp>L</scp>-lysine. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1226-1233.	1.3	39
10	Cloning of a Gene Cluster Encoding Enzymes Responsible for the Mevalonate Pathway from a Terpenoid-antibiotic-producing Streptomyces Strain. Bioscience, Biotechnology and Biochemistry, 2001, 65, 1627-1635.	1.3	38
11	Growth-phase Dependent Expression of the Mevalonate Pathway in a Terpenoid Antibiotic-producingStreptomycesStrain. Bioscience, Biotechnology and Biochemistry, 2002, 66, 808-819.	1.3	37
12	Antimicrobial Activity of Îµ-Poly-<scp>l</scp>-lysine after Forming a Water-Insoluble Complex with an Anionic Surfactant. Biomacromolecules, 2017, 18, 1387-1392.	5.4	37
13	Heterologous Production of Hyaluronic Acid in an Îµ-Poly- <scp>l</scp> -Lysine Producer, Streptomyces albulus. Applied and Environmental Microbiology, 2015, 81, 3631-3640.	3.1	34
14	Cloning and Nucleotide Sequence of the Putative Polyketide Synthase Genes for Pradimicin Biosynthesis fromActinomadura hibisca. Bioscience, Biotechnology and Biochemistry, 1997, 61, 1445-1453.	1.3	33
15	Control Mechanism for cis DoubleâEBond Formation by Polyunsaturated FattyâEAcid Synthases. Angewandte Chemie - International Edition, 2019, 58, 2326-2330.	13.8	33
16	Control Mechanism for CarbonâEChain Length in Polyunsaturated FattyâEAcid Synthases. Angewandte Chemie - International Edition, 2019, 58, 6605-6610.	13.8	31
17	Development of gene delivery systems for the É›-poly-L-lysine producer, Streptomyces albulus. Journal of Bioscience and Bioengineering, 2005, 99, 636-641.	2.2	29
18	NRPSs and amide ligases producing homopoly(amino acid)s and homooligo(amino acid)s. Natural Product Reports, 2013, 30, 1087.	10.3	29

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19	A Novel Enzyme Conferring Streptothricin Resistance Alters the Toxicity of Streptothricin D from Broad-spectrum to Bacteria-specific. Journal of Biological Chemistry, 2006, 281, 16842-16848.	3.4	28
20	Separation and Purification of Îµ-Poly-L-lysine from the Culture Broth Based on Precipitation with the Tetraphenylborate Anion. Analytical Sciences, 2012, 28, 1153-1157.	1.6	28
21	Îµ-Poly- <scp>l</scp> -Lysine Peptide Chain Length Regulated by the Linkers Connecting the Transmembrane Domains of Îµ-Poly- <scp>l</scp> -Lysine Synthetase. Applied and Environmental Microbiology, 2014, 80, 4993-5000.	3.1	27
22	Interconversion of the Product Specificity of Type I Eubacterial Farnesyl Diphosphate Synthase and Geranylgeranyl Diphosphate Synthase through One Amino Acid Substitution. Journal of Biochemistry, 2003, 133, 83-91.	1.7	23
23	Enhancement of metabolic flux toward Îµ-poly-l-lysine biosynthesis by targeted inactivation of concomitant polyene macrolide biosynthesis in Streptomyces albulus. Journal of Bioscience and Bioengineering, 2020, 129, 558-564.	2.2	22
24	A New Approach for the Investigation of Isoprenoid Biosynthesis Featuring Pathway Switching, Deuterium Hyperlabeling, and1H NMR Spectroscopy. The Reaction Mechanism of a NovelStreptomycesDiterpene Cyclase. Journal of Organic Chemistry, 2003, 68, 5433-5438.	3.2	21
25	Assay of enzymes forming AMP+PPi by the pyrophosphate determination based on the formation of 18-molybdopyrophosphate. Analytical Biochemistry, 2012, 421, 308-312.	2.4	20
26	Colorimetric Determination of Pyrophosphate Anion and Its Application to Adenylation Enzyme Assay. Analytical Sciences, 2013, 29, 1095-1098.	1.6	20
27	Functional properties of anti-inflammatory substances from quercetin-treated Bifidobacterium adolescentis. Bioscience, Biotechnology and Biochemistry, 2018, 82, 689-697.	1.3	20
28	An Enzyme Catalyzing Oâ€Prenylation of the Glucose Moiety of Fusicoccin A, a Diterpene Glucoside Produced by the Fungus Phomopsis amygdali. ChemBioChem, 2012, 13, 566-573.	2.6	19
29	Molecular Breeding of a Fungus Producing a Precursor Diterpene Suitable for Semi-Synthesis by Dissection of the Biosynthetic Machinery. PLoS ONE, 2012, 7, e42090.	2.5	18
30	Analytical Methods for the Detection and Purification of Îµ-Poly-L-lysine for Studying Biopolymer Synthetases, and Bioelectroanalysis Methods for Its Functional Evaluation. Analytical Sciences, 2014, 30, 17-24.	1.6	18
31	Imaging mass spectrometry analysis of ubiquinol localization in the mouse brain following short-term administration. Scientific Reports, 2017, 7, 12990.	3.3	18
32	Development of a recombinant Îµ-poly-L-lysine synthetase expression system to perform mutational analysis. Journal of Bioscience and Bioengineering, 2011, 111, 646-649.	2.2	17
33	The Biological Function of the Bacterial Isochorismatase-Like Hydrolase SttH. Bioscience, Biotechnology and Biochemistry, 2009, 73, 2494-2500.	1.3	16
34	tRNA-Dependent Aminoacylation of an Amino Sugar Intermediate in the Biosynthesis of a Streptothricin-Related Antibiotic. Applied and Environmental Microbiology, 2016, 82, 3640-3648.	3.1	16
35	Development of a Self-Cloning System for Actinomadura verrucosospora and Identification of Polyketide Synthase Genes Essential for Production of the Angucyclic Antibiotic Pradimicin. Applied and Environmental Microbiology, 1999, 65, 2703-2709.	3.1	16
36	Analysis of the Lactobacillus Metabolic Pathway. Applied and Environmental Microbiology, 2010, 76, 7299-7301.	3.1	15

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37	Detection of Biopolymer Ïμ-poly-L-lysine with Molybdosilicate Anion for Screening of Synthetic Enzymes. International Journal of Polymer Analysis and Characterization, 2011, 16, 542-550.	1.9	14
38	Colorimetric Detection of the Adenylation Activity in Nonribosomal Peptide Synthetases. Methods in Molecular Biology, 2016, 1401, 77-84.	0.9	14
39	Mutational analysis of the three tandem domains of Îμ-poly-l-lysine synthetase catalyzing the l-lysine polymerization reaction. Journal of Bioscience and Bioengineering, 2013, 115, 523-526.	2.2	12
40	Separation and Purification of Îμ-Poly-l-lysine with Its Colorimetric Determination Using Dipicrylamine. Analytical Sciences, 2015, 31, 1273-1277.	1.6	12
41	Biochemistry and Enzymology of Poly-Epsilon-l-Lysine Biosynthesis. Microbiology Monographs, 2010, , 23-44.	0.6	12
42	C-Methylation of S-adenosyl-L-Methionine Occurs Prior to Cyclopropanation in the Biosynthesis of 1-Amino-2-Methylcyclopropanecarboxylic Acid (Norcoronamic Acid) in a Bacterium. Biomolecules, 2020, 10, 775.	4.0	11
43	The Stereocontrolled Biosynthesis of Mirror-Symmetric 2,4-Diaminobutyric Acid Homopolymers Is Critically Governed by Adenylation Activations. ACS Chemical Biology, 2020, 15, 1964-1973.	3.4	11
44	Off-Loading Mechanism of Products in Polyunsaturated Fatty Acid Synthases. ACS Chemical Biology, 2020, 15, 651-656.	3.4	11
45	Overexpression and Characterization of an Aminoglycoside 6'-N-Acetyltransferase with Broad Specificity from an Â-Poly-L-lysine Producer, Streptomyces albulus IFO14147. Journal of Biochemistry, 2004, 136, 517-524.	1.7	10
46	Moldable Material from Îμ-Poly-l-lysine and Lignosulfonate: Mechanical and Self-Healing Properties of a Bio-Based Polyelectrolyte Complex. ACS Omega, 2019, 4, 9756-9762.	3.5	10
47	Construction of a Knockout Mutant of the Streptothricin-Resistance Gene in Streptomyces albulus by Electroporation. Nihon Hosenkin Gakkai Shi = Actinomycetologica, 2006, 20, 35-41.	0.3	9
48	Colorimetric method to detect Îμ-poly-l-lysine using glucose oxidase. Journal of Bioscience and Bioengineering, 2016, 122, 513-518.	2.2	9
49	Colorimetric Microtiter Plate Assay of Polycationic Aminoglycoside Antibiotics in Culture Broth Using Amaranth. Analytical Sciences, 2017, 33, 499-503.	1.6	8
50	Synthesis of (2S,3R,4R)-3,4-dihydroxyarginine and its inhibitory activity against nitric oxide synthase. Tetrahedron, 2016, 72, 5602-5611.	1.9	7
51	Voltammetric study of the transfer of Îμ-poly-L-lysine at nitrobenzene | water interface. Journal of Electroanalytical Chemistry, 2014, 719, 138-142.	3.8	6
52	In vitro characterization of MitE and MitB: Formation of N-acetylglucosaminyl-3-amino-5-hydroxybenzoyl-MmcB as a key intermediate in the biosynthesis of antitumor antibiotic mitomycins. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 2076-2078.	2.2	6
53	Crystal structure of the adenylation domain from an Îμ-poly-l-lysine synthetase provides molecular mechanism for substrate specificity. Biochemical and Biophysical Research Communications, 2022, 596, 43-48.	2.1	6
54	Separation of Streptothricin Antibiotics from Culture Broth with Colorimetric Determination Using Dipicrylamine. Analytical Sciences, 2016, 32, 1101-1104.	1.6	5

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55	tRNA-dependent amide bondâ€“forming enzymes in peptide natural product biosynthesis. Current Opinion in Chemical Biology, 2020, 59, 164-171.	6.1	5
56	Ion-transfer voltammetry of streptothricin antibiotics with differently sized lysine oligomers at a nitrobenzene | water interface. Journal of Electroanalytical Chemistry, 2015, 754, 143-147.	3.8	4
57	Promotion Effect of Streptothricin on a Glucose Oxidase Enzymatic Reaction and Its Application to a Colorimetric Assay. Analytical Sciences, 2018, 34, 143-148.	1.6	4
58	Partition of amines and lysine oligomers between organic solvent and water under a controlled interfacial potential difference. Journal of Electroanalytical Chemistry, 2018, 820, 97-102.	3.8	4
59	Draft Genome Sequence of the Most Traditional Îµ-Poly- <scp>l</scp> -Lysine Producer, Streptomyces albulus NBRC14147. Microbiology Resource Announcements, 2019, 8, .	0.6	4
60	Control Mechanism for cis Doubleâ€Bond Formation by Polyunsaturated Fattyâ€Acid Synthases. Angewandte Chemie, 2019, 131, 2348-2352.	2.0	3
61	Protoplasting and Regeneration of Strains Belonging to the Genus Actinomadura.. Nihon Hosenkin Gakkai Shi = Actinomycetologica, 1997, 11, 1-5.	0.3	3
62	Discovery of a Polyamino Acid Antibiotic Solely Comprising <scp>l</scp>-Î²-Lysine by Potential Producer Prioritization-Guided Genome Mining. ACS Chemical Biology, 2022, 17, 171-180.	3.4	3
63	Control Mechanism for Carbonâ€Chain Length in Polyunsaturated Fattyâ€Acid Synthases. Angewandte Chemie, 2019, 131, 6677-6682.	2.0	2
64	Functional analysis of methyltransferases participating in streptothricin-related antibiotic biosynthesis. Journal of Bioscience and Bioengineering, 2018, 125, 148-154.	2.2	1
65	Selective toxicity alteration of a highly toxic antibiotic by an enzyme catalyzing antibiotic modification. Nihon Hosenkin Gakkai Shi = Actinomycetologica, 2008, 22, 50-55.	0.3	0
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67	Molecular and Mechanistic Characterization of PddB, the First PLP-Independent 2,4-Diaminobutyric Acid Racemase Discovered in an Actinobacterial D-Amino Acid Homopolymer Biosynthesis. Frontiers in Microbiology, 2021, 12, 686023.	3.5	0